

Rehabilitation and Installation of Sanitation Facilities

PRICING PREAMBLES

1. Introduction:

These Pricing Preambles set out the basis on which the Bills of quantities have been prepared. Notwithstanding the provisions of these pricing preambles, the Contractor is reminded that the Tender Drawings and the Specifications form part of the Tender Documents and as such mutually refer to the intent of the Tender Documents.

Where a discrepancy occurs it is deemed that the Contractor has allowed for the intent of the Tender Documents unless this is clarified specifically at the time of Tender.

2. Bills of Quantities:

The Bills of Quantities define the items which are measurable and the units of measurement represent the entire work to be carried out in accordance with the Drawings and the Specifications. The measurement items in the Bills of Quantities are to be accepted as the full interpretation of the requirement of the Drawings and Specifications. "Descriptions" are given in outline only, the Contractor is to refer to the Specifications and Drawings and make himself familiar with the requirements.

No additional measured items will be allowed to interpret further the information so given. Other requirements which are not measurable in terms of quantity of labor and materials (e.g., specialist supervision, shop drawings, bar bending schedules, as built drawings, samples, tests, mock-ups, maintenance, materials, guarantees and the like) and are not given as specific items in the Bills, are to be included in the prices of the measured items. The method of measurement for the Contract is thus established by the measured items and units of the measurement in the Bills of Quantities. No other measurement method shall be used to measure the executed works.

The same method of measurement and no other will be used in re-measuring the executed work.

3. Pricing:

The Contractor shall satisfy himself as to the meaning of every item in the Bills of Quantities and the rates and prices inserted by him shall cover all Works required by the Contract Documents. All costs in connection with the proper and successful construction, completion and maintenance of the Works including, but not limited to, completion of all temporary works, furnishing all materials, equipment, supply and appurtenance, providing all construction Plants, equipment, tools, sampling, testing, profits, overheads, charges, provision of guarantees, performing all necessary labour and supervision and other cost of whatsoever nature necessary to fully complete the Works, shall be included in the unit and lump sum prices called for in the bills of Quantities. All Works not specifically set fourth as a pay item in the Bills of Quantities shall be considered as subsidiary obligation of the Contractor and all costs in connection therewith shall be included in the Priced Tender. Prices shall be deemed to include for all straight ranking and circular cutting and consequent waste. All prices shall include all fees and levies.

4. Quantities:

All estimated quantities stipulated in the Bills of Quantities or other Tender Documents are approximate and are to be used only;

1. as a basis for estimating the probable cost of the Work and
2. for the purpose of comparing the bids submitted for the Work.

The actual amount of work done under each unit price items may differ from the estimated quantities. The basis of payment for work will be the actual quantities. The Contractor agrees that he will make no claim for damages, anticipated profits or otherwise on account of any difference between the amounts of work actually performed and the estimated amount.

5. Items in Bills of Quantities

Such items are the subject of re-measurement of completion in accordance with Clause 56 of the General Conditions of Contract. Quantities given in the Bills are based upon measurement from the Contract Drawings and Specifications.

6. Measurement

Metric measurements and weights have been used throughout the Bills of Quantities. Work is measured net as fixed in position and each measurement is taken to the nearest centimeter. Fractions of a centimeter less than half are disregarded and all other fractions are regarded as whole centimeters. This principle shall not apply to dimensions stated in item descriptions. Where minimum deductions of voids are dealt with they refer only to openings or voids which are wholly within the boundaries of measured areas. Openings or voids which are at the boundaries of measured areas are always the subject of deduction irrespective of size.

7. Descriptions

The order of stating dimensions in descriptions is generally in the sequence of Length, Width and Height. Unless otherwise stated in the Bills of Quantities or herein, all measured items are deemed to include supply and fix in place complete, thus all measured items shall include all incidentals to complete the work in a proper manner such as but not limited to the following:

1. Labor.
2. Materials, including all costs in connection herewith (e.g. conveyance, delivery, unloading, storing, handling, lowering into position and the like).
3. Customs and import duties as applicable, insurance, levies and the like.
4. All shop treatment of materials (e.g. Preservation of timbers, galvanizing, priming, chrome plating, stove enameling, anodizing and the like, pipe wrapping, coatings, etc.).
5. Fitting and fixing materials in position including all necessary fixing devices and materials.
6. Commissioning & use of plant.
7. Disposal of waste of material.
8. Square, raking or curved cutting.
9. Work in volumes, areas and length of any size, no separate items being measured for isolated work or work in small quantities, short lengths, narrow widths, etc.
10. Establishment charges, on-costs, overhead charges profits and taxes **excluding the Value Added Tax (VAT).**

Junction between straight, raking and curved work are in all cases included with the work in which they occur.

Certain items are referred directly to detail drawings to eliminate detailed description. All such reference includes all work to execute the detail.

Where Specification clauses and / or detail drawing numbers are referred to in a description such information is provided for convenience only and the Contractor is to note that all other relevant Specification requirements and relevant drawings and details are to be taken into account.

8. Abbreviations.

The following abbreviations are used throughout the Bills of Quantities.

mm	Millimeter
cm	Centimeter
M.R.	Linear meter
M.S.	Square meter
M.C	Cubic Meter
L.S.	Lump Sum
No.	Number
Kg.	Kilogram
Ref.	Reference

9. Definitions

The terms “include ”, “is included “, “including “, and similar, are used herein to indicate that the items are not specifically mentioned in the descriptions but the costs of which are to be included in the measured items.

Such references are not comprehensive and are for convenience only and the Contractor is to note that all relevant requirements of the Specifications and Drawings are to be taken into account in the measured items.

The word " Site" used in the Bills of Quantities means the whole of the areas within the Contract limit lies for this Contract as shown on the Contract Drawings. With reference to the clearance of debris, rubbish, trash, excavated material and the like the definition is extended to include the whole of the site.

The word “ ditto” used in the Bills of Quantities means the repetition of all or part of the preceding item as applicable to complete the sense of the item.

The word “ extra “ used in the Bills of Quantities means the additional cost of the item of work in question over and above the cost of work already measured.

10. Protection.

All rates in the Bills of Quantities shall include for protection as required and deemed necessary.

11. Shop Drawings / coordinated drawings.

All rates shall include where required for producing shop drawings & coordinated drawings and supporting calculations as requested by the Engineer.

12. As Built Drawings.

All rates shall include for producing one transparency and four (4) copies of all as-built drawings and supporting calculations to the approval of the Engineer.

13. Cutting and Patching.

The Contractor shall be responsible for all cutting, patching and making good for all trades for all work and his prices will be deemed to include for all such cutting and patching and making good.

1. Setting out of the buildings, yards, car parks, guardroom, retaining walls & boundaries are to be done by licensed authorized surveyor at the contractor's expense and responsibility.
2. Rates and Prices shall be clearly spelled out alphabetically and numerically.
3. No item is to be measured twice under separate headings.

14. Excavation:

A) Measurements:

1. Excavation for foundation, trenches, etc. shall be for the actual dimensions shown on Drawings, and to be measured from Natural Ground level or Reduced Level (which is lower) , i.e.
 - a) From Reduced Level when R.L. is lower than N.G.L.
 - b) From N.G.L. when N.G.L. is lower than the Reduced Level.
2. Allowance for working space is not applicable; unless it is clearly specified in the Special Conditions.
3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1.)
4. Trench excavation and back filling for drain and water pipes and electricity cables and excavating for manholes and percolation pits is included in the items of pipe work, cabling, manholes and percolation pits and will not be measured separately.
5. Price to include removal of site obstacles, rocks, treesetc. and removal of all debris from site. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.
6. Each layer of back filling should be tested separately at the contractor's expense then the next layer can be applied.
7. Co- ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, services, etc.is the contractor's responsibility and is included in his rate.
8. Excavation shall be measured by cubic volume. The volume shall be calculated by taking the area of the slab, footing, base and the like and multiplying by the vertical depth. No allowance will be made for increase in bulk after excavation. No allowance will be made for working space.
9. Hard-core beds shall be measured superficially, over consolidated depth including finishing, to a maximum depth of 15cm or as stated clearly in the Bills of Quantities. Filling required below this 15cm. depth is intended to be of suitable materials from the excavations and no extra will be paid for hard-core used in lieu thereof.

(B) Rates

1. Rates for excavation shall include for:
 - a) Removal of all site obstacles and clearing the site of all rubbish, debris, shrubs, trees, bushes, plants, fence and the like including grubbing up roots and foundations prior to the commencement of the Works.
 - b) Excavation to any depth.
 - c) Excavation in any material whatsoever found, including rock.
 - d) Excavating circular on plan.
 - e) Allowance for working space.
 - f) Excavating below water-table level.
 - g) Keeping excavations clear of water.
 - h) Leveling, ramming, trimming and grading bottoms of excavations in rock.
 - i) Planking and strutting.
 - j) Selecting Suitable material from the excavations and returning, filling watering and ramming in layers around foundations and to underside of hard-core beds including all multiple handling and transport about the site.
2. Rates for hard-core beds shall include for:
 - (a) Trimming and leveling ground under.
 - (b) Watering, ramming and consolidation.
 - (c) Loss of bulk in consolidation.
 - (d) Finishing top surface to receive concrete, paving and the like.

15. Concrete Work

(a) Measurements

1. Concrete works shall be measured net as per Drawings or as specified by the Engineer.
2. Each item of concrete works shall be measured in the unit described in the Bills of Quantities.
3. All recesses, openings or any other space not actually filled with concrete shall be deducted in calculating the volume or the area for payment.
4. Any extra concrete which was cast due to the Contractor's negligence and is not marked specifically on the Drawings shall not be measured for payment.
5. Suspended concrete slabs shall be measured superficially.
6. Drop beams are included in the measurement of the slab.
7. The height of columns shall be measured excluding the depth of beams, slabs and the like.
8. Prices for reinforced concrete elements shall include reinforcement.
9. Prices for ribbed slabs shall include reinforcement and hollow blocks and no separate item for blocks will be provided.

(B) Rates

Rates for concrete work shall include for:

1. Labour
2. Supply and storage of cement,
3. Supply and storage of aggregates and water,
4. Mixing and placing in position,
5. Packing and tamping around reinforcement,
6. Vibrating, Vibrating, compacting of concrete, additives and curing,
7. Grading, tamping and trowelling,
8. Installing of formwork, shutters and supports and dismantling the same.
9. Supplying reinforcement and storing on site including cutting, bending and fixing in position and providing all tying wire, spacers, shop drawings and testing,
10. Finish to exposed faces,
11. Work of any cross-sectional area,
12. Work at any height,
13. Curved work,
14. Forming mortices and grouting in,
15. Forming grooves, throats, holes, chases, rebates, chamfers, splayed angles, mouldings and the like,
16. Casting in or cutting and pinning plugs, holdfasts, brackets, and the like.
17. Hoisting to any height and bedding, jointing and pointing,
18. Wall ties.
19. Hollow blocks for ribbed slabs including supply, storage, laying and arranging.
20. Protective coating of hot bitumen in not less than two coats and not less than 2 mm in thickness to surfaces of reinforced concrete occurring under the ground level including necessary undercoating.
21. Taking samples, performing any laboratory tests that may be required by the Engineer and providing certificates of test results.

16. Blockwork

(A) Measurements

1. Block work shall be measured net in squared meters. No deductions will be made for voids or openings of less than 0.5 square meters in area.
2. Thickness given refer to the thickness shown on the drawings and no allowance will be made for any additional thickness due to uneven or bad workmanship.
3. For the main building, prices of the reinforced concrete lintels, sills and beams over the length of the block walls are included in the rates of the block works
4. For toilet block, prices of the reinforced concrete lintels, sills and beams over the length of the block walls are included in the rates of the block works.

(B) Rates

Rates for block work shall include for:

1. Labour
2. Supply and storage of cement,
3. Supply and storage of aggregates, water and other materials,
4. Manufacture, curing and supply of blocks,
5. Laying blocks including horizontal and vertical mortar joints,
6. Using closed ends blocks as required by the Engineer at all ends, openings, services locations etc.
7. Work of all classifications in any location,
8. Finishing fair and pointing to exposed faces,
9. Rough and fair cutting,
10. Cutting or leaving holes, chases, grooves, mortices, sinkings and the like and making good, -
11. Cutting and pinning or building in ends of lintels, steps, timbers, rails, brackets, steel sections and the like, and making good,
12. Concrete filling and reinforcing rods to cavities at quoins and door and window openings,
13. Cutting and bonding at angles, intersections and the like.
14. Reinforced concrete lintels of same thickness as block and 20 cm. high all over the length of the wall over openings or where no openings are provided in the block partition lintel of 20cm thick should be provided at midst of the height of the block partition over the entire length. Including scaffolding and reinforcement of 4 ϕ 12 and stirrups of 1 ϕ 8 every 20 cm.

17. Stonework

(1st) Measurements

1. Stone works shall be measured net in squared meters.
2. Thickness given refers to the nominal thickness or the thickness shown on the Drawing.
3. Rubble stone walls shall be measured by volume.
4. Stone facing for drop beams of the suspended slabs will be measured same as the item of stone walls unless otherwise specified in the Bills of quantities.

(B) Rates

Rates for stonework shall include for:

1. Labour
2. Supply and storage of cement,
3. Supply and storage of aggregates, water and other materials,
4. Shaping of the apparent faces of stones as per Drawings and the Instructions of the Engineer.
5. All special pieces such as corners, jambs, pieces around windows and doors and the like.
6. Fabricated wire mesh, dowels, hangers and all tying and fixing tools for stone cladding works.
7. Laying stones including coursing, bonding, and all mortar joints.
8. Works of all classifications in any location.
9. Face or surface finishing including all openings, returns, reveals and the like.
10. Rough and fair cutting,
11. Tying to backing material.
12. Concrete and block backing where included with stonework item.
13. Cutting or leaving holes, chases, grooves, mortises, sinking and the like, and making good
14. Cutting and pinning or building in ends of lintels, steps, timbers, rails, brackets, steel sections and the like, and making good.
15. Pointing including cleaning of stones, scaffolding and dismantling the same and all incidentals.
16. Lintels and other reinforced concrete elements including reinforcement except those elements specified in separate items in the Bills of Quantities.

18. Plastering

A) Measurements:

Plastering to all areas shall be measured net in squared meters including openings which are less than 0.25 squared meter in area. The plaster doors and windows sills shall not be subjected to measurement, these are deemed to be included in the plastering of the relevant facades, ceiling and walls.

B) Rates

The price shall include for running rules:

1. Supply and storage of cement,
2. Supply and storage of aggregates and water,
3. Clearing of walls and other elements to be plastered and spraying with water,
4. Installation of scaffolding and dismantling the same,
5. Mixing and applying plastering to any surface, location, area, width and height,
6. Plastering to jambs and reveals of openings, side of columns, window sills,...etc.
7. All narrow widths for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings,
8. Making good around steel sections, pipes, tubes, bars, brackets, outlets and the like,
9. Curing,
10. Expanded metal lath, corner mesh, angle beads at all corners and plaster stops at openings, edges, expansion joints, sills,...etc. and where ever needed and according to the instructions of the Engineer,
11. Labour and all incidentals required as specified and/or detailed in Specifications and Drawings.

19. Carpentry and Joinery Work

(A) Measurements

1. Sizes of timber given in the Bills of Quantities are finished sizes and shall be as per Drawings,
2. Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings as per Drawings,
3. Wooden doors and pair of doors shall be measured in number or in squared meters for the structural opening or as mentioned otherwise in the Bills of Quantities,
4. Blackboards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.
5. Wall protection wooden rails shall be measured in linear meter,
6. Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.

(B) Rates

Rates for carpentry and joinery work shall include for:

1. Labour,
2. Shop drawings,
3. Any length of timber,
4. Joints in the running length of timber,
5. Raking, curved or circular work and labours,
6. Frames, architrave, chalk holders and other holders and kick plates,
7. Allowance for plastering and tiling and the like,
8. Forming holes, angles, ends, mitres, rebates, splayed edges, grooves, chamfers, scribed edges, rounded edges, rounded corners, notches, sinkings, fitted ends, far ends and the like,
9. Cutting and fitting around obstructions,
10. Forming mouldings,
11. Nosing, bed moulds, margins, and the like,
12. Facing and edging to blackboard,
13. Bedding and painting,
14. Grounds, blockings and backings,
15. Plugging concrete, block work, and stonework, and making good,
16. Ironmongery including cylindrical locks, handles, stoppers, screws, temporarily fixing, re-fixing, oiling and adjusting,

17. Providing two keys for each lock including tagging,
18. Hardware including nails, screws, dowels, cramps and the like,
19. Steel legs, brackets, bearers and other supports including painting,
20. Glass and glazing including cutting to size and putty,
21. Fly screening including cutting to size,
22. Preparing surfaces to receive finishes,
23. Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multi colors and cutting in edges.

20. Metal (Steel and Aluminum) Works

(A) Measurements

Metal works shall be measured in number or in squared meters as stated in the Bills of Quantities.

(B) Rates

Rates for metalwork shall include for:

1. Labour,
2. Preparing shop drawings,
3. Cutting,
4. Assembling,
5. Welding grinding and joining,
6. Drilling, countersinking, screwing, bolting and riveting,
7. Bedding and painting,
8. Frames, including galvanized steel frames for Aluminum windows and architrave,
9. Lugs, plugs, holdfasts and the like,
10. Gaskets, sashes, double weather strips and external and internal silicon filling around frames,
11. Ironmongery including locks, stoppers, handles, temporarily fixing, refixing, oiling and adjusting,
12. Providing two keys for each lock and padlock including tagging,
13. Hardware including cramps, dowels and the like,
14. Glass and glazing including cutting to size, putty and rubber,
15. Preparing surfaces for and painting one coat of primer before fixing,
16. Sealing,
17. Painting to any area or width in any location including work in multi colors and cutting in edges.
18. All other accessories and incidentals required to execute the work.

21. Tiling, Flooring and Marble:

(A) Measurements

1. All tiling works (terrazzo, ceramics, marble) shall be measured net in squared meters and the rate shall include skirting. Skirting will not be included in the measurements.
2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread and the riser shall be measured as a single unit,
3. Marble works for sills for windows and other openings shall be measured in linear meter or in squared meter as stated in the Bills of Quantities,
4. Marble works for urinals shall be measured in number,
5. Parapet coping shall be measured in linear meter,
6. Marble works for stair flight's skirting shall be included in (2) above.

(B) Rates

- (1) Rates for finishes shall include for:
1. Supply and storage of cement,
 2. Supply and storage of aggregates and water,
 3. Mixing,
 4. Hacking concrete, applying cement slurry or raking out joints of blockwork to form key,
 5. Application to any surface,
 6. Any width or area,
 7. Any location and any height,
 8. Beds, bedding and backing,
 9. Finish to surface,
 10. Finish to edges and arises,
 11. Grouting and pointing,
 12. Making good around steel sections, pipes, tubes, bars, brackets, outlets and the like,
 13. Finish to falls, cross falls and currents,
 14. Forming bays including joints,
 15. Treating surfaces with dust proofer, hardener and the like,
 16. Ends, intersections, angles, ramps, and the like on skirting,
 17. Forming rounded top edges and coves at bottom on skirting,
 18. Curing.
- (2) Rates for floor tiling: In addition to the related items stated above the rates for floor tiling shall also include:
1. Supply, store and cure of tiles,
 2. Bedding and loining in cement and sand mortar
 3. Sand or concrete filling as required by the Specifications,
 4. Pointing and grouting with white cement,
 5. Forming holes,
 6. Forming grooves.
 7. On site mechanical grinding and polishing.
- (3) Rates for wall tiling: In addition to the related items stated above the rates for wall tiling shall also include:
1. Supply, store and cure of tiles
 2. Plastering,
 3. Cutting and patching around the services and other openings,
 4. Mortar,
 5. Purpose made tiles including rounded edge tiles and bullnosed tiles.
 6. Grouting, grinding, and cleaning.

22. Roof Finishes:

(A) Measurements

1. All finishes shall be measured superficially net unless otherwise stated clearly.
2. All finishes, except triangular shaped fillets and cement and sand lining to gutters, shall be measured superficially.
3. Rates for the triangular shaped fillets, cement and sand lining to gutters shall be included in the rate of the finished work.

(B) Rates

- (1) Rates for cement and sand work shall include for:
1. Supply and storage of cement.
 2. Supply and storage of aggregates and water,
 3. Mixing,
 4. Hacking concrete, applying cement slurry or raking out joints of block work to form key,
 5. Application to any surface,
 6. Any width or area,
 7. Finish to surface,

8. Finish to falls, cross falls and currents,
9. Forming bays including joints,
10. Finish to edges and arises,
11. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like,
12. Ends, intersections, ramps, and the like, on fillets,

(2) Rates for waterproofing shall include for:

1. Preparation of surface,
2. Any area or width,
3. Cutting in edges.
4. Over laps, priming and treatment at the corners and floor drains.
5. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer.

(3) Rates for roof sheets shall include for:

1. Side and end laps, Fittings including bolts, hook bolts, screws and washers,
2. Sheets of any width or length.

23. Plumbing Work:

(A) Measurements

1. All plumbing work, except rainwater pipes and water supply pipe work in water points, shall be measured by number.
2. Rainwater pipes shall be measured run over fittings.
3. Pipe work in frames to shading sheds shall be measured run over fittings.
4. Water supply pipe works, water distribution pipe works shall be measured each as lump sum.

(B) Rates

(1) Rates generally shall include for:

1. Shop drawings,
2. Cutting and forming all chases, recesses, holes, and the like,
3. Pipe sleeves,
4. Building of concrete and/or brick ducts in floors, walls ...etc.,
5. Excavation, forming of trenches for services, concreting, bedding and back filling and ramming after laying,
6. Fixing brackets, clips, holder bats, hangers, and the like,
7. Temporary and final fixing,
8. Nails, screws, bolts, nuts, washers, holes, plugs, sleeves and the like,
9. Building in or cutting and pinning,
10. Testing and drawings,
11. Painting,
12. All work of other trades in connection with plumbing work including all making good.

(2) Rates for building of manholes and pits shall include excavation, concrete, benching, plastering, backfilling and cover as per Drawings and Specifications,

(3) Rates for sanitary fittings, isolated taps and gullies shall also include for:

1. All pipe work in connection therewith and connections thereto including connection to the nearest manhole or gully and to the cold water storage tank.

(4) Rates for pipe work including pipe work in frames to shading sheds shall include for :

1. Joints in the running length,
2. Nipples, connections, sockets, ferrules, couplings, backnuts, unions, and the like,
3. Bends, elbows, tees, reducers, access doors, cleaning eyes, blank caps, stop valves, and the like,
4. Welded joints and connections including grinding,
5. Lagging and wrapping,
6. Excavation, bedding and backfilling.

24. Electrical Work:

(A) Measurements

1. All electrical work shall be measured by number, unless other wise stated.

(B) Rates

- (1) Rates generally shall include for :

1. Shop Drawings
2. Cutting or forming all chases, recesses, holes, and the like,
3. Conduit sleeves,
4. Fixing brackets, clips, holderbats, hangers and the like,
5. Temporary and final fixing,
6. Excavation for and lying of cable carrying pipes, bedding, concreting, backfilling and compacting,
7. Building of manholes, pits, etc.,
8. Building of concrete and/or brick ducts,
9. Nails, screws, bolts, nuts, washers, holes, plugs, and the like,
10. Building in or cutting and pinning,
11. Testing and drawings,
12. Painting,
13. Excavation, forming of trenches, bedding, backfilling and compacting,
14. All work of other trades in connection with electrical work including all making good.

- (2) Rates for fittings, switches, and fuse boards shall include for :

1. Conduit and wiring to and between fittings, switches, and fuse boards (except connections to supply company's main) including all fittings, boxes, connectors and the like and making connections,
2. Lamps, bulbs, tubes and the like,
3. Plates and covers.

- (3) The rate for the connection to the supply company's main shall include for:

1. All the supply company's charges for making the connection to the main,
2. Wiring or cabling between the supply company's main and the distribution board,
3. Underground conduit and junction boxes including excavation, bedding and backfilling,
4. Poles including insulators.

25. Glazing Work:

(A) Measurements

1. Glass and glazing work is included within the items in which the glass is fixed and will not be measured separately.

(B) Rates

Rates for glass and glazing work shall include for:

1. Any size, shape and area,
2. Glazing to wood or metal,
3. Bedding edges,
4. Labours to edges,
5. Drilling holes and grinding

26. Paintings and Decorating:

(A) Measurements

1. Painting and decorating to walls, ceilings and the like shall be measured net in squared meters,
2. Painting and decorating to all other surfaces, inter alia, The doors and windows sills shall not be subjected to measurement as these are deemed to be included in the painting rates of the relevant facades, ceiling and walls.

(B) Rates

Rates for painting and decorating work shall include for:

1. Preparation of surface including puttying, sealing and priming,
2. Any area or width,
3. Any location,
4. Work in multi colors,
5. Cutting in edges,

27. Asphalt Works

A) Measurement:

1. Base course works shall be measured net in squared meter or in tons as specified in the Bills of Quantities in case of base course works are not included in the asphalt works.
2. Asphalt works shall be measured net in squared meter.

B) Rates:

Rates for base course and asphalt works shall include for:

1. Labour,
2. Supply and storage of base course materials,
3. Spreading, leveling, watering and compacting the base course to receive asphalt,
4. Supply and apply asphalt concrete,
5. Spreading by using Finisher,
6. Compacting,
7. Trimming, cutting and making good around edges, openings, corners and trenches.

28) Curbstone Works

A) Measurements:

Curbstone works shall be measured in linear meter.

B) Rates:

1. Labour.
2. Supply and storage of aggregates. Cement and water.
3. Supply and storage of curbstone.
4. Excavation in all kinds of soil including rocks, concrete and asphalt.
5. Supply and cast of blinding concrete as per Specifications.
6. Struts.
7. Laying curbstone including mortar.
8. Backfilling, leveling, watering and compacting.
9. Pointing and grouting.
10. Lowering curbs as entrance and ramps and where requested by the Engineer.

29- Demolition and Alterations:

A) Measurements

1. Unless otherwise stated, old materials shall be understood to become the property of the contractor and shall be cleared away. Old materials required to remain the property of the Ministry of Education and Higher Education (MEHE) shall be so described; setting aside and storing of such materials shall be given in the description.
2. Removing individual fittings, fixtures, engineering installations or the like from an existing structure shall be given as an item, stating the size, or enumerated.
3. Those required to be set aside for reaffixing shall be so described.
4. Removing finishings or coverings to existing structures shall be given as Items, indicating the quantity, or in square meters. Stating the nature of the finishing or coverings.
5. Demolishing individual structure, or part thereof, shall be given as an item, stating the dimensions. Alternatively, demolishing all structures on site may be given one item.
6. Cutting opening in existing structures and alterations to existing structures shall be given either as an item or a number. Stating the size of the opening and the type and thickness of the existing structure.
7. Making good all work damaged shall be understood to be included. The provision of new lintels shall be included in the description of such work. The provision of temporary screens and coverings to protect the existing structure shall be understood to be included in the demolition and alteration items.
8. Shoring incidental to demolitions and alterations, together with clearing away and making good all work damaged shall be understood to be included. Shoring, other than that incidental to demolitions and alterations. Shall be given as an item stating the location; clearing away and making good all work damaged shall be understood to be included.

B) Rates

Rates shall include for:

1. Labor, materials and plant.
2. Temporary propping or shoring incidental to the Work.
3. Protection of adjacent buildings.
4. Temporary screens and protection of remaining finishings and structures.
5. Clearing all debris from site.
6. Making good finishes and structures.
7. Disposal of old materials by Contractor unless otherwise stated in the description.
8. Removal of old materials to MEHE store where these are to be retained by the MEHE.

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<p><u>Demolition and Alterations Works :</u></p> <p>General:-</p> <p>* all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas.</p> <p>*Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works.</p> <p>* It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works.</p> <p>* Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...</p> <p>Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -</p>				
1.01		1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	Included			
F	Removing existing drinking fountain.	N/A			
G	New doors and windows openings.	N/A			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	Included			
J	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	N/A			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School

Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). Price to include back filling with excavated suitable soil, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	NILL	M.C	NILL	NILL
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	5	M.S		
To Summary Page					
NIS					

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete</p> <p>quality control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a- from the center to center for external stone walls</p> <p>b- from the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam. (All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	1	M.C		
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm for ramp .	5	M.S		
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.	NILL	M.C	NILL	NILL
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m³) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Manjal.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladded columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> • Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. • Supplying, storing, protection and removal of rejected and surplus materials. • Shaping, cutting and fitting. • Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). • Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. • Erecting and dismantling of scaffoldings. • Pointing and pointing materials of any type, and cleaning of walls. • Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as below:</p> <ol style="list-style-type: none"> 1- Density: 28-35Kg/m³. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm² <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General</p> <p>All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications. Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area.</p> <p>No allowance for thickness used other than those shown in the drawings.</p> <p>Rates of Block works include: -</p> <ul style="list-style-type: none"> • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • R.C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	50	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	NILL	M.S	NILL	NILL
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<u>Plastering Works</u> General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.				
6.01	Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required. Internal plaster: Walls and ceilings including drop beams. a. Walls to full height(plastering behind wall tiles not calculated in this item)	20	M.S		
	b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)	5	M.S		
6.02	External plaster: a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.	NILL	M.S	NILL	NILL
	b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris , material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	Tiling, Flooring And Marble Works General. 1. All tilling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Base shall include preparation of surfaces under tiles, Finnish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	125	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	47	M.S		
7.03	ditto to above but tiling only without supplying tiles for kinder garden yard.	15	M.S		
7.04	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	4	M.S		
B	Door's thresholds	4	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	NILL	M.S	NILL	NILL
7.05	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.06	Ditto as above but for Steps and Treads of Stairs . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>•Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>•Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>•Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>•Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a)Shop and coordinated drawings.</p> <p>b)Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c)Allowance for plastering and tiling and the like.</p> <p>d)Cutting and fitting around obstructions, Bedding and painting.</p> <p>e)Grounds, blocking and backings.</p> <p>f)Plugging concrete, block work, and stone work, and making well.</p> <p>g)Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h)Providing three keys for each lock including tagging.</p> <p>i)Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j)Steel legs, brackets, bearers and other supports including painting.</p> <p>k)Glass and glazing including cutting to size and putty.</p> <p>l)Fly screening including cutting to size.</p> <p>m)Preparing surfaces to receive finishes.</p> <p>n)Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification.</p> <p>Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (80*217) cm. Door Type WD1	7	NO		
B	Structural opening size (110*217) cm. Door Type WD2	1	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	Steel And Aluminum Works General Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item). Rates for metalwork shall include for: Preparing shop drawings, Drilling, counter sinking, screwing, bolting and riveting. Lugs, plugs, holdfasts and the like. Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames. Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave. Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting. Providing three keys for each lock and padlock including tagging and a master key for all doors. Hardware including cramps, dowels and the like. Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U "shape. Preparing surfaces for painting one coat of primer before fixing. Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges. All other accessories and incidentals required to execute the work.				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	6	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	6	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	5	M.R		
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	NILL	M.R	NILL	NILL
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (100*217) cm. Door Type DS1	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<u>Painting Works</u> General Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted. The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	100	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble.</p> <p>All finishes shall be measured superficially net unless other wise stated clearly.</p> <p>All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured.</p> <p>Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly.</p> <p>Rates for cement and sand work shall include for:</p> <p>Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface.</p> <p>Finish to surface, to falls, cross-falls and currents.</p> <p>Forming bays including joints. Finish to edges and arises.</p> <p>Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like.</p> <p>Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices.</p> <p>Rates for waterproofing and roof sheeting shall include for</p> <p>Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains.</p> <p>Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer.</p> <p>Side and end laps, Fittings including bolts, hook bolts, screws and washers,</p> <p>Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	NILL	M.S	NILL	NILL
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <p>•The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender.</p> <p>•The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work.</p> <p>•The contractor is requested to equally consider the following notes when quoting his prices:</p> <p>1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified.</p> <p>2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions.</p> <p>3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning.</p> <p>4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter.</p> <p>5- Water tanks shall be measured in number.</p> <p>6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network.</p> <p>7- Drains, Floor Traps, Clean outs and the like shall be measured in number.</p> <p>8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances.</p> <p>9- Vents and vertical stacks shall measured in linear meter.</p> <p>10- Manhole, Galleys and the like shall be measured in number.</p> <p>11- External sewers pipes shall be measured in linear meter for each individual diameter and material.</p> <p>12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning.</p> <p>13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications.</p> <p>14- Insulation and painting as called for in specifications.</p> <p>15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying.</p> <p>16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover.</p> <p>17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer.</p> <p>18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning.</p> <p>19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer.</p> <p>20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works.</p> <p>21-All mechanical Equipments must be from agent not broker.</p> <p>22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly.</p> <p>23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand.</p> <p>24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches.</p> <p>25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is possible.</p> <p>26- The contractor must test all existing water network and connect the fixtures to the network if it is possible.</p> <p>27- Adjust all the installations of old fixture units to be suitable for the new fixture units.</p> <p>28-Extension for all existing manholes to finish floor level.</p>				

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	3	N.O		
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	4	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	4	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	7	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	3	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	NILL	N.O	NILL	NILL
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	10	M.R	NILL	NILL
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	NILL	N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size $\frac{3}{4}$ "	NILL	N.O.E	NILL	NILL
	b. Size 1"	21	N.O.E		
	c. Size 1 1/4"	NILL	N.O.E	NILL	NILL
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	NILL	L.S	NILL	NILL
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes’ diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	2	N.O		
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	1	N.O		
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	1	N.O		
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness. Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	NILL	L.S	NILL	NILL
13.2	Sockets and outlets:				
13.2.1	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.	NILL	NO.	NILL	NILL
13.2.2	3 pin Single-Phase 16 Amp sockets.	1	NO.		
13.2.3	Ditto, but waterproof (IP65)	1	NO.		
13.2.4	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan. Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	NILL	NO.	NILL	NILL
13.3	Lighting Points:				
13.3.1	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.	13	NO.		
13.4	Lighting Fixtures:				
13.4.1	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	11	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	2	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	NILL	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Yasser Arafat Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	External Works				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B ' 150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	NILL	M.S	NILL	NILL
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	NILL	M.S	NILL	NILL
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet and painting.	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3. * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	60	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Yasser Arafat Boys School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS

Item	Description	Total
		NIS
Bill No. 1	Site preparation.	
Bill No. 2	Excavations, Backfilling and site works.	
Bill No. 3	Concrete Works.	
Bill No. 4	Stone Works.	
Bill No. 5	Block works.	
Bill No. 6	Plastering works.	
Bill No. 7	Tiling, Flooring and Marble works.	
Bill No. 8	Carpentry and Joinery Works.	
Bill No. 9	Steel and Aluminum Works.	
Bill No. 10	Painting Works.	
Bill No. 11	Insulation, Roofing and Expansion Joints.	
Bill No. 12	Mechanical Works.	
Bill No. 13	Electrical Works.	
Bill No. 14	External Works.	
Grand Total		

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<u>Demolition and Alterations Works :</u> General:- * all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas. *Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works. * It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works. * Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	Included			
F	Removing existing drinking fountain.	Included			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
J	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	N/A			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). <u>Price to include back filling with excavated suitable soil to base coarse level</u> , or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	30	M.C		
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	25	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a-from the center to center for external stone walls</p> <p>b-from the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam.</p> <p>(All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	15	M.S		
3.02	Supply and Cast Reinforced Concrete Grade 'B 300' for Foundations . Price to include isolation for foundations.	3	M.C		
3.03	Supply and Cast Reinforced Concrete Grade 'B 300' for Ground beams . Price to include isolation.	3	M.C		
3.04	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced Columns necks . Price to include isolation.	1	M.C		
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade . (15) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	19	M.S		
3.07	Ditto to above but smooth slab on grade 10 cm thick for ramp and side walk and where needed .	20	M.C		
3.08	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced walls above Ground Slab for ramp Level.	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced Columns to hidden or drop beams level.	2	M.C		
3.10	Supply and Cast Reinforced Concrete Grade 'B300' fair face for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.h=0.50 m, T=0.20 m	2	M.C		
3.12	Supply and Cast Reinforced Concrete Grade 'B 300' for 25 cm thick ribbed slab . Price to include drop, inverted and hidden beams as per drawing, price also include reinforcement and block 0.40*0.17 m and all related works according to drawings.	19	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Marjaj.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladde columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> • Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. • Supplying, storing, protection and removal of rejected and surplus materials. • Shaping, cutting and fitting. • Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). • Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. • Erecting and dismantling of scaffoldings. • Pointing and pointing materials of any type, and cleaning of walls. • Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as bellow:</p> <ul style="list-style-type: none"> 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm2 <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone,25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). <u>Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.</u>	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets (new and existing roof of WC).	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Hisham Abdul Malek School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General</p> <p>All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications.</p> <p>Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area.</p> <p>No allowance for thickness used other than those shown in the drawings.</p> <p>Rates of Block works include: -</p> <ul style="list-style-type: none">• Vertical and horizontal joints.• Cement and mortar,• Galvanized angles butter fly ties (at joints and between walls in cavity walls.• Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like.• R.C. Door jambs for classroom doors as per detailed drawings• Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings.• Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door.• R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists.• 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings.• And all needed to complete job as per drawings and specifications.				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	55	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	45	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<u>Plastering Works</u> General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.				
6.01	Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required. Internal plaster: Walls and ceilings including drop beams. a. Walls to full height(plastering behind wall tiles not calculated in this item)	NILL	M.S	NILL	NILL
	b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)	30	M.S		
6.02	External plaster: a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.	70	M.S		
	b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris , material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tilling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Rate shall include preparation of surfaces under tiles, Finnish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	190	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	45	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	2	M.S		
B	Door's thresholds	2	M.S		
C	Ramp parapet	1	M.S		
D	Roof parapet coping	9	M.S		
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	Ditto as above but for Steps and Treads of Stairs for main entrance . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p>CARPENTRY AND JOINERY WORKS</p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Lugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Fly screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification.</p> <p>Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (80*217) cm. Door Type WD1	7	NO		
B	Structural opening size (110*217) cm. Door Type WD2	1	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<u>Steel And Aluminum Works</u> General Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item). Rates for metalwork shall include for: Preparing shop drawings, Drilling, counter sinking, screwing, bolting and riveting. Lugs, plugs, holdfasts and the like. Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames. Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave. Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting. Providing three keys for each lock and padlock including tagging and a master key for all doors. Hardware including cramps, dowels and the like. Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U" shape. Preparing surfaces for painting one coat of primer before fixing. Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges. All other accessories and incidentals required to execute the work.				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	3	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	3	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 4 cm and 2.5 cm diameter hollow steel pipes. Price to include Fixing complete, oil paint three coats in addition to primer coat.	5	M.R		
B	Grab bars of 4 cm diameter with plates. hollowsteel pipes, parallel and fixed to walls.	5	M.R		
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (110*217) cm. Door Type DS1	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Hisham Abdul Malek School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<p><u>Painting Works</u></p> <p>General</p> <p>Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted.</p> <p>The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications.</p> <p>All paint types should be approved and having a supervision certificate from the PSI.</p>				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	55	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	50	M.S		
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	50	M.S		
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <ol style="list-style-type: none"> 1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified. 2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions. 3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning. 4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter. 5- Water tanks shall be measured in number. 6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network. 7- Drains, Floor Traps, Clean outs and the like shall be measured in number. 8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances. 9- Vents and vertical stacks shall measured in linear meter. 10- Manhole, Gallies and the like shall be measured in number. 11- External sewers pipes shall be measured in linear meter for each individual diameter and material. 12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning. 13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications. 14- Insulation and painting as called for in specifications. 15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying. 16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover. 17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer. 18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning. 19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer. 20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works. 21-All mechanical Equipments must be from agent not broker. 22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly. 23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand. 24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches. 25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is possible. 26- The contractor must test all existing water network and connect the fixtures to the network if it is possible. 27- Adjust all the installations of old fixture units to be suitable for the new fixture units. 28-Extension for all existing manholes to finish floor level. 				

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer .	4	N.O		
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	3	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	4	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	6	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	3	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	1	N.O		
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	4	M.R		
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	1	N.O		
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
		To Next Page		NIS	

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	NILL	N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	NILL	N.O.E	NILL	NILL
	b. Size 1"	NILL	N.O.E	NILL	NILL
	c. Size 1 1/4"	21	N.O.E		
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	1	L.S		
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
FORWARDED TOTAL					
12.17	<p>a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes' diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer .</p> <p>b.Ditto but 200 cfm.</p> <p>c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.</p> <p>d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.</p> <p>e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.</p>	NILL	N.O	NILL	NILL
		NILL	N.O	NILL	NILL
		NILL	N.O	NILL	NILL
		NILL	N.O	NILL	NILL
		2	N.O		
12.18	<p>Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.</p>	NILL	N.O	NILL	NILL
12.19	<p>Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution), Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.</p>	NILL	N.O	NILL	NILL
12.20	<p>Supply and Install all first fix for wash basins, the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.</p>	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness(water proof). Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	1	L.S		
13.2	Sockets and outlets:				
13.2.1	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.	NILL			
13.2.2	3 pin Single-Phase 16 Amp sockets.	2	NO.	NILL	NILL
13.2.3	Ditto, but waterproof (IP65)	2	NO.		
13.2.4	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.				
	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	NILL	NO.	NILL	NILL
13.3	Lighting Points:				
13.3.1	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.	12	NO.		
13.4	Lighting Fixtures:				
13.4.1	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	9	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	2	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	1	NO.		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Hisham Abdul Malek School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	External Works				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to Include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B ' 150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	10	M.R		
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	NILL	M.S	NILL	NILL
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.H=1.50 m	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	19	M.S		
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insulation for edges connected with building walls (metal sheet angles and special insulation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3. * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Hisham Abdul Malek School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total			
		NIS			
Bill No. 1	Site preparation.				
Bill No. 2	Excavations, Backfilling and site works.				
Bill No. 3	Concrete Works.				
Bill No. 4	Stone Works.				
Bill No. 5	Block works.				
Bill No. 6	Plastering works.				
Bill No. 7	Tiling, Flooring and Marble works.				
Bill No. 8	Carpentry and Joinery Works.				
Bill No. 9	Steel and Aluminum Works.				
Bill No. 10	Painting Works.				
Bill No. 11	Insulation, Roofing and Expansion Joints.				
Bill No. 12	Mechanical Works.				
Bill No. 13	Electrical Works.				
Bill No. 14	External Works.				
Grand Total					

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<p><u>Demolition and Alterations Works :</u></p> <p>General:- * all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas.</p> <p>* Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works.</p> <p>* It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works.</p> <p>* Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...</p>				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	Included			
F	Removing existing drinking fountain.	Included			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
J	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	N/A			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC.	N/A			
		To Summary Page		NIS	

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School

[illegible]

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 — 250kg/m3</p> <p>b-B250 — 300kg/m3</p> <p>c-B300 — 350kg/m3</p> <p>9. Testing specimens for concrete quality</p> <p>control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a-From the center to center for external stone walls</p> <p>b-From the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam.</p> <p>(All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	1	M.C		
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick for ramp .	6	M.S		
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.	NILL	M.C	NILL	NILL
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Manjal.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladde columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> - Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. - Supplying, storing, protection and removal of rejected and surplus materials. - Shaping, cutting and fitting. - Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). - Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. - Erecting and dismantling of scaffoldings. - Pointing and pointing materials of any type, and cleaning of walls. - Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as bellow:</p> <ol style="list-style-type: none"> 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm2 <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page					
NIS					

[To Summary Page](#)

NLS

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications. Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area. No allowance for thickness used other than those shown in the drawings. Rates of Block works include: - • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • R.C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. • And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	20	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	NILL	M.S	NILL	NILL
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	30	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	10	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	150	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tiling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Rate shall include preparation of surfaces under tiles, Finnish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	80	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	30	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	2	M.S		
B	Door's thresholds	2	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	10	M.S		
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	Ditto as above but for Steps and Treads of Stairs . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>• Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>• Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>• Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>• Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Plugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Fly screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification.</p> <p>Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (80*177) cm. Door Type WD1	3	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	3	NO		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<u>Steel And Aluminum Works</u> General Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item). Rates for metalwork shall include for: Preparing shop drawings, Drilling, counter sinking, screwing, bolting and riveting. Lugs, plugs, holdfasts and the like. Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames. Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave. Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting. Providing three keys for each lock and padlock including tagging and a master key for all doors. Hardware including cramps, dowels and the like. Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U" shape. Preparing surfaces for painting one coat of primer before fixing. Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges. All other accessories and incidentals required to execute the work.				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	2	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	2	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	12	M.R		
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	5	M.R		
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (90*177) cm. Door Type DS1	1	NO		
A	Structural opening size (110*217) cm. Door Type DS2	1	NO		
B	Structural opening size (100*217) cm. Door Type DS3	NILL	NO	NILL	NILL
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<p><u>Painting Works</u></p> <p>General Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted. The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.</p>				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	30	M.S		
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	50	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble.</p> <p>All finishes shall be measured superficially net unless other wise stated clearly.</p> <p>All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured.</p> <p>Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly.</p> <p>Rates for cement and sand work shall include for:</p> <p>Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface.</p> <p>Finish to surface, to falls, cross-falls and currents.</p> <p>Forming bays including joints. Finish to edges and arises.</p> <p>Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like.</p> <p>Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices.</p> <p>Rates for waterproofing and roof sheeting shall include for</p> <p>Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains.</p> <p>Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer.</p> <p>Side and end laps, Fittings including bolts, hook bolts, screws and washers,</p> <p>Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	NILL	M.S	NILL	NILL
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	10	M.S		
To Summary Page				NIS	

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <p>•The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender.</p> <p>•The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work.</p> <p>•The contractor is requested to equally consider the following notes when quoting his prices:</p> <p>1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified.</p> <p>2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions.</p> <p>3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning.</p> <p>4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter.</p> <p>5- Water tanks shall be measured in number.</p> <p>6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network.</p> <p>7- Drains, Floor Traps, Clean outs and the like shall be measured in number.</p> <p>8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances.</p> <p>9- Vents and vertical stacks shall measured in linear meter.</p> <p>10- Manhole, Gallies and the like shall be measured in number.</p> <p>11- External sewers pipes shall be measured in linear meter for each individual diameter and material.</p> <p>12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning.</p> <p>13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications.</p> <p>14- Insulation and painting as called for in specifications.</p> <p>15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying.</p> <p>16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover.</p> <p>17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer.</p> <p>18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning.</p> <p>19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer.</p> <p>20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works.</p> <p>21- All mechanical Equipments must be from agent not broker.</p> <p>22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly.</p> <p>23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand.</p> <p>24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches.</p> <p>25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if it is possible.</p> <p>26- The contractor must test all existing water network and connect the fixtures to the network if it is possible.</p> <p>27- Adjust all the installations of old fixture units to be suitable for the new fixture units.</p> <p>28-Extension for all existing manholes to finish floor level.</p>				

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	NILL	N.O	NILL	NILL
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	NILL	N.O	NILL	NILL
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	4	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	1	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	1	N.O		
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	10	M.R		
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes \varnothing 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes \varnothing 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap . b. Ditto, but 40 Liter .	NILL	N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size $\frac{3}{4}$ "	3	N.O.E		
	b. Size 1"	8	N.O.E		
	c. Size 1 1/4"	NILL	N.O.E	NILL	NILL
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	2	L.S		
	B- Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes' diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	3	N.O		
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	3	N.O		
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	2	N.O		
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, install and Connect the panel Boards factory made oven painted 2mm thickness(water proof). Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	1	L.S		
13.2	Sockets and outlets:				
13.2.1	Supply, install, numbering and Connect the following Socket Outlets points including (3×2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.	NILL	NO.	NILL	NILL
13.2.2	3 pin Single-Phase 16 Amp sockets.	2	NO.		
13.2.3	Ditto, but waterproof (IP65)	3	NO.		
13.2.4	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	NILL	NO.	NILL	NILL
	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.				
13.3	Lighting Points:				
13.3.1	Supply, install and Connect Lighting Points including Conduits and (3×1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.	9	NO.		
13.4	Lighting Fixtures:				
	Supply, install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	6	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	2	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	1	NO.		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Shaibteen School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	External Works				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to Include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B ' 150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	7	M.S		
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2" as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	8	M.S		
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintainance for existing metal canopy . Price to include fix any damaged sheet, insolation for edges connected with building walls (metal sheet angles and special insolation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * Landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Shaibteen School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total NIS			
Bill No. 1	Site preparation.				
Bill No. 2	Excavations, Backfilling and site works.				
Bill No. 3	Concrete Works.				
Bill No. 4	Stone Works.				
Bill No. 5	Block works.				
Bill No. 6	Plastering works.				
Bill No. 7	Tiling, Flooring and Marble works.				
Bill No. 8	Carpentry and Joinery Works.				
Bill No. 9	Steel and Aluminum Works.				
Bill No. 10	Painting Works.				
Bill No. 11	Insulation, Roofing and Expansion Joints.				
Bill No. 12	Mechanical Works.				
Bill No. 13	Electrical Works.				
Bill No. 14	External Works.				
Grand Total					

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<u>Demolition and Alterations Works :</u> General:- * all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas. *Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works. * It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works. * Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc... Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -				
1.01		1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	N/A			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
J	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	N/A			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page					
				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). Price to include back filling with excavated suitable soil, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	NILL	M.C	NILL	NILL
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	NILL	M.S	NILL	NILL
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for **Qasem Rimawi School For Girls**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete</p> <p>quality control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a- from the center to center for external stone walls</p> <p>b- from the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam.</p> <p>(All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	NILL	M.C	NILL	NILL
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick for ramp .	2	M.S		
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.	NILL	M.C	NILL	NILL
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Manjal.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladded columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> - Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. - Supplying, storing, protection and removal of rejected and surplus materials. - Shaping, cutting and fitting. - Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). - Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. - Erecting and dismantling of scaffoldings. - Pointing and pointing materials of any type, and cleaning of walls. - Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as below:</p> <ol style="list-style-type: none"> 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm2 <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone,25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Qasem Rimawi School For Girls**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General</p> <p>All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications.</p> <p>Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area.</p> <p>No allowance for thickness used other than those shown in the drawings.</p> <p>Rates of Block works include: -</p> <ul style="list-style-type: none">• Vertical and horizontal joints.• Cement and mortar,• Galvanized angles butter fly ties (at joints and between walls in cavity walls.• Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like.• R.C. Door jambs for classroom doors as per detailed drawings• Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings.• Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door.• R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists.• 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	15	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	NILL	M.S	NILL	NILL
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	20	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	10	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	170	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tiling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Slate shall include preparation of surfaces under tiles, Finish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	330	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	100	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	5	M.S		
B	Door's thresholds	5	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	NILL	M.S	NILL	NILL
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	Ditto as above but for Steps and Treads of Stairs . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>·Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>·Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>·Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>·Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a)Shop and coordinated drawings.</p> <p>b)Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c)Allowance for plastering and tiling and the like.</p> <p>d)Cutting and fitting around obstructions, Bedding and painting.</p> <p>e)Grounds, blocking and backings.</p> <p>f)Plugging concrete, block work, and stone work, and making well.</p> <p>g)Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h)Providing three keys for each lock including tagging.</p> <p>i)Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j)Steel legs, brackets, bearers and other supports including painting.</p> <p>k)Glass and glazing including cutting to size and putty.</p> <p>l)Fly screening including cutting to size.</p> <p>m)Preparing surfaces to receive finishes.</p> <p>n)Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification.</p> <p>Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (70*217) cm. Door Type WD1	20	NO		
B	Structural opening size (110*217) cm. Door Type WD2	1	NO		
C	Structural opening size (90*217) cm. Door Type WD3	1	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	Steel And Aluminum Works General Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item). Rates for metalwork shall include for: Preparing shop drawings, Drilling, counter sinking, screwing, bolting and riveting. Lugs, plugs, holdfasts and the like. Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames. Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave. Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting. Providing three keys for each lock and padlock including tagging and a master key for all doors. Hardware including cramps, dowels and the like. Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U "shape. Preparing surfaces for painting one coat of primer before fixing. Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges. All other accessories and incidentals required to execute the work.				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	7	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	7	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	4	M.R		
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	NILL	M.R	NILL	NILL
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (90*217) cm. Door Type DS1	1	NO		
B	Structural opening size (100*217) cm. Door Type DS2	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Qasem Rimawi School For Girls**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<u>Painting Works</u> General Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted. The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	150	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	NILL	M.S	NILL	NILL
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	55	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <p>1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified.</p> <p>2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions.</p> <p>3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning.</p> <p>4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter.</p> <p>5- Water tanks shall be measured in number.</p> <p>6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network.</p> <p>7- Drains, Floor Traps, Clean outs and the like shall be measured in number.</p> <p>8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances.</p> <p>9- Vents and vertical stacks shall measured in linear meter.</p> <p>10- Manhole, Galleys and the like shall be measured in number.</p> <p>11- External sewers pipes shall be measured in linear meter for each individual diameter and material.</p> <p>12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning.</p> <p>13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications.</p> <p>14- Insulation and painting as called for in specifications.</p> <p>15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying.</p> <p>16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover.</p> <p>17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer.</p> <p>18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning.</p> <p>19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer.</p> <p>20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works.</p> <p>21-All mechanical Equipments must be from agent not broker.</p> <p>22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly.</p> <p>23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand.</p> <p>24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches.</p> <p>25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is possible.</p> <p>26- The contractor must test all existing water network and connect the fixtures to the network if it is possible.</p> <p>27- Adjust all the installations of old fixture units to be suitable for the new fixture units.</p> <p>28-Extension for all existing manholes to finish floor level.</p>				

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	20	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	12	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	27	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	6	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	NILL	N.O	NILL	NILL
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	NILL	M.R	NILL	NILL
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	1	N.O		
	b. Ditto, but 40 Liter .	NILL	N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	3	N.O.E		
	b. Size 1"	43	N.O.E		
	c. Size 1 1/4"	13	N.O.E		
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	NILL	L.S	NILL	NILL
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes' diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	NILL	N.O	NILL	NILL
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	2	N.O		
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Qasem Rimawi School For Girls**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness(water proof). Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	NILL	L.S	NILL	NILL
13.2	Sockets and outlets:				
13.2.1	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.	NILL			
13.2.2	3 pin Single-Phase 16 Amp sockets.	5	NO.	NILL	NILL
13.2.3	Ditto, but waterproof (IP65)	2	NO.		
13.2.4	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan. Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	1	NO.		
13.3	Lighting Points:				
13.3.1	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.	34	NO.		
13.4	Lighting Fixtures:				
13.4.1	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.2	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	26	NO.		
13.4.3	Ditto, with Emergency Kit 1.5Hour duration.	7	NO.		
	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	1	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qasem Rimawi School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	<u>External Works</u>				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to Include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B ' 150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	NILL	M.S	NILL	NILL
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	NILL	M.S	NILL	NILL
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insulation for edges connected with building walls (metal sheet angles and special insulation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 5 mm thick. * beams and columns 150*150*5 mm tubes * Steel hand rail 1.50, 1.00 " pipes . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	1	L.S		
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Qasem Rimawi School For Girls**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS

Item	Description	Total
		NIS
Bill No. 1	Site preparation.	
Bill No. 2	Excavations, Backfilling and site works.	
Bill No. 3	Concrete Works.	
Bill No. 4	Stone Works.	
Bill No. 5	Block works.	
Bill No. 6	Plastering works.	
Bill No. 7	Tiling, Flooring and Marble works.	
Bill No. 8	Carpentry and Joinery Works.	
Bill No. 9	Steel and Aluminum Works.	
Bill No. 10	Painting Works.	
Bill No. 11	Insulation, Roofing and Expansion Joints.	
Bill No. 12	Mechanical Works.	
Bill No. 13	Electrical Works.	
Bill No. 14	External Works.	
Grand Total		

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<u>Demolition and Alterations Works :</u> General:- * all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas. *Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works. * It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works. * Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc... Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -				
1.01		1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	Included			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
J	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	N/A			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). Price to include back filling with excavated suitable soil, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	NILL	M.C	NILL	NILL
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete</p> <p>quality control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a- From the center to center for external stone walls</p> <p>b- From the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam.</p> <p>(All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	NILL	M.C	NILL	NILL
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick for ramp .	NILL	M.S	NILL	NILL
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, fighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.	NILL	M.C	NILL	NILL
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General All Stone works shall be of local white stone of First Choice. Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval. Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.) Stones shall be homogeneous in color and texturing and free of any defects. Stone Specifications shall be as follows: • Specific gravity (kg/m³) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed. All cuttings shall be made using Manjal. Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area. No measurement will be made for any recesses, projections or sides of stone pieces. Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladde columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications. No allowances shall be made for stone pieces in any shape. No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses. Rates of stone works shall include: - - Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. - Supplying, storing, protection and removal of rejected and surplus materials. - Shaping, cutting and fitting. - Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). - Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. - Erecting and dismantling of scaffoldings. - Pointing and pointing materials of any type, and cleaning of walls. - Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement.</p> <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as bellow: 1- Density: 28-35Kg/m³. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm² Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone,25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p>Concrete Block Works.</p> <p>General</p> <p>All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications.</p> <p>Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area.</p> <p>No allowance for thickness used other than those shown in the drawings.</p> <p>Rates of Block works include: -</p> <ul style="list-style-type: none">• Vertical and horizontal joints.• Cement and mortar,• Galvanized angles butter fly ties (at joints and between walls in cavity walls.• Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like.• R.C. Door jambs for classroom doors as per detailed drawings• Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings.• Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door.• R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists.• 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	7	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	7	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	10	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	10	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	160	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tiling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Base shall include preparation of surfaces under tiles, Finnish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	200	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	60	M.S		
7.03	Supply and install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	3	M.S		
B	Door's thresholds	3	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	NILL	NILL	NILL	NILL
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	Ditto as above but for Steps and Treads of Stairs . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>• Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>• Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>• Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>• Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Lugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Fly screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick(as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (70*217) cm. Door Type WD1	12	NO		
B	Structural opening size (110*217) cm. Door Type WD2	1	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<p><u>Steel And Aluminum Works</u></p> <p>General</p> <p>Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item).</p> <p>Rates for metalwork shall include for:</p> <p>Preparing shop drawings,</p> <p>Drilling, counter sinking, screwing, bolting and riveting.</p> <p>Lugs, plugs, holdfasts and the like.</p> <p>Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames.</p> <p>Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave.</p> <p>Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting.</p> <p>Providing three keys for each lock and padlock including tagging and a master key for all doors.</p> <p>Hardware including cramps, dowels and the like.</p> <p>Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U" shape.</p> <p>Preparing surfaces for painting one coat of primer before fixing.</p> <p>Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges.</p> <p>All other accessories and incidentals required to execute the work.</p>				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	3	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	3	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	6	M.R		
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	NILL	M.R	NILL	NILL
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (110*217) cm. Door Type DS1	1	NO		
B	Structural opening size (100*217) cm. Door Type DS2	2	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<u>Painting Works</u> General Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted. The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	100	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only. Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	75	M.S		
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	75	M.S		
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <p>•The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender.</p> <p>•The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work.</p> <p>•The contractor is requested to equally consider the following notes when quoting his prices:</p> <p>1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified.</p> <p>2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions.</p> <p>3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning.</p> <p>4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter.</p> <p>5- Water tanks shall be measured in number.</p> <p>6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network.</p> <p>7- Drains, Floor Traps, Clean outs and the like shall be measured in number.</p> <p>8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances.</p> <p>9- Vents and vertical stacks shall measured in linear meter.</p> <p>10- Manhole, Gallies and the like shall be measured in number.</p> <p>11- External sewers pipes shall be measured in linear meter for each individual diameter and material.</p> <p>12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning.</p> <p>13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications.</p> <p>14- Insulation and painting as called for in specifications.</p> <p>15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying.</p> <p>16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover.</p> <p>17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer.</p> <p>18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning.</p> <p>19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer.</p> <p>20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works.</p> <p>21-All mechanical Equipments must be from agent not broker.</p> <p>22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly.</p> <p>23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand.</p> <p>24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches.</p> <p>25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is is possible.</p> <p>26- The contractor must test all existing water network and connect the fixtures to the network if it is possible.</p> <p>27- Adjust all the installations of old fixture units to be suitable for the new fixture units.</p> <p>28-Extension for all existing manholes to finish floor level.</p>				

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	3	N.O		
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	9	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	7	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	14	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	6	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	1	N.O		
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	4	M.R		
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	1	N.O		
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	2	N.O.E		
	b. Size 1"	15	N.O.E		
	c. Size 1 1/4"	20	N.O.E		
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	1	L.S		
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes' diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	2	N.O		
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	1	N.O		
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	2	N.O		
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness(water proof). Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	1	L.S		
13.2	Sockets and outlets:				
13.2.1	Supply, Install, numbering and Connect the following Socket Outlets points including (3x2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.	NILL	NO.	NILL	NILL
13.2.2	3 pin Single-Phase 16 Amp sockets.	3	NO.		
13.2.3	Ditto, but waterproof (IP65)	4	NO.		
13.2.4	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan. Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3x4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	NILL	NO.	NILL	NILL
13.3	Lighting Points:				
13.3.1	Supply, Install and Connect Lighting Points including Conduits and (3x1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.	23	NO.		
13.4	Lighting Fixtures:				
	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2x13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	17	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	4	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	2	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	External Works				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to Include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B '150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	NILL	M.S	NILL	NILL
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. Measurements only for Horizontal dimensions of the Canopy only.	21	M.S		
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insolation for edges connected with building walls (metal sheet angles and special insolation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Basheer Barghouti For Boys
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS

Item	Description	Total
		NIS
Bill No. 1	Site preparation.	
Bill No. 2	Excavations, Backfilling and site works.	
Bill No. 3	Concrete Works.	
Bill No. 4	Stone Works.	
Bill No. 5	Block works.	
Bill No. 6	Plastering works.	
Bill No. 7	Tiling, Flooring and Marble works.	
Bill No. 8	Carpentry and Joinery Works.	
Bill No. 9	Steel and Aluminum Works.	
Bill No. 10	Painting Works.	
Bill No. 11	Insulation, Roofing and Expansion Joints.	
Bill No. 12	Mechanical Works.	
Bill No. 13	Electrical Works.	
Bill No. 14	External Works.	
Grand Total		

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<u>Demolition and Alterations Works :</u> General:- * all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas. * Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works. * It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works. * Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	LS		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	N/A			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
J	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	Included			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School

Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation . Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). Price to include back filling with excavated suitable soil, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	25	M.C		
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	45	M.S		
To Summary Page					
NIS					

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality</p> <p>control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a- from the center to center for external stone walls</p> <p>b- from the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam.</p> <p>(All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	NILL	M.C	NILL	NILL
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick .	45	M.S		
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level.	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.h=0.50 m , t= 0.20 m	NILL	M.C	NILL	NILL
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m³) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Manjal.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone clad columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> • Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. • Supplying, storing, protection and removal of rejected and surplus materials. • Shaping, cutting and fitting. • Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). • Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. • Erecting and dismantling of scaffoldings. • Pointing and pointing materials of any type, and cleaning of walls. • Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as bellow:</p> <ol style="list-style-type: none"> 1- Density: 28-35Kg/m³. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm² <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications. Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area. No allowance for thickness used other than those shown in the drawings. Rates of Block works include: - • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • R.C. Door jambs for classroom doors as per detailed drawings •lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. • And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	12	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	10	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	5	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	NILL	M.S	NILL	NILL
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls (external walls of bathrooms) and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tiling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Rate shall include preparation of surfaces under tiles, Finnish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	65	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	15	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	2	M.S		
B	Door's thresholds	3	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	NILL	M.S	NILL	NILL
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	Ditto as above but for Steps and Treads of Stairs . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>·Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>·Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>·Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>·Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a)Shop and coordinated drawings.</p> <p>b)Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c)Allowance for plastering and tiling and the like.</p> <p>d)Cutting and fitting around obstructions, Bedding and painting.</p> <p>e)Grounds, blocking and backings.</p> <p>f)Plugging concrete, block work, and stone work, and making well.</p> <p>g)Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h)Providing three keys for each lock including tagging.</p> <p>i)Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j)Steel legs, brackets, bearers and other supports including painting.</p> <p>k)Glass and glazing including cutting to size and putty.</p> <p>l)Fly screening including cutting to size.</p> <p>m)Preparing surfaces to receive finishes.</p> <p>n)Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick(as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (80*217) cm. Door Type WD1	4	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<u>Steel And Aluminum Works</u> General Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item). Rates for metalwork shall include for: Preparing shop drawings, Drilling, counter sinking, screwing, bolting and riveting. Lugs, plugs, holdfasts and the like. Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames. Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave. Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting. Providing three keys for each lock and padlock including tagging and a master key for all doors. Hardware including cramps, dowels and the like. Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U "shape. Preparing surfaces for painting one coat of primer before fixing. Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges. All other accessories and incidentals required to execute the work.				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	2	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	2	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	NILL	M.R	NILL	NILL
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	NILL	M.R	NILL	NILL
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (100*217) cm. Door Type DS1	1	NO		
B	Structural opening size (70*217) cm. Door Type DS2	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<u>Painting Works</u> General Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted. The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.				
10.01	Supply and paint high quality emulsion paint (for corridor of male student WC) for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint (for corridor of male student WC) , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	25	M.S		
To Summary Page					
				NIS	

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only. Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	NILL	M.S	NILL	NILL
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	6	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <p>1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified.</p> <p>2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions.</p> <p>3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning.</p> <p>4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter.</p> <p>5- Water tanks shall be measured in number.</p> <p>6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network.</p> <p>7- Drains, Floor Traps, Clean outs and the like shall be measured in number.</p> <p>8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances.</p> <p>9- Vents and vertical stacks shall measured in linear meter.</p> <p>10- Manhole, Galleys and the like shall be measured in number.</p> <p>11- External sewers pipes shall be measured in linear meter for each individual diameter and material.</p> <p>12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning.</p> <p>13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications.</p> <p>14- Insulation and painting as called for in specifications.</p> <p>15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying.</p> <p>16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover.</p> <p>17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer.</p> <p>18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning.</p> <p>19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer.</p> <p>20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works.</p> <p>21- All mechanical Equipments must be from agent not broker.</p> <p>22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly.</p> <p>23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand.</p> <p>24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches.</p> <p>25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is possible.</p> <p>26- The contractor must test all existing water network and connect the fixtures to the network if it is possible.</p> <p>27- Adjust all the installations of old fixture units to be suitable for the new fixture units.</p> <p>28-Extension for all existing manholes to finish floor level.</p>				

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	4	N.O	1,400	5600
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	NILL	N.O	NILL	NILL
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	3	N.O	1,200	3600
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	NILL	N.O	NILL	NILL
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	6	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	1	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	NILL	N.O	NILL	NILL
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	NILL	M.R	NILL	NILL
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	3	N.O		
	b. Manholes Ø 80 cm clear size	1	N.O		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	1	N.O		
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	6	N.O		
	b. Size 1"	8	N.O		
	c. Size 1 1/4"	NILL	N.O	NILL	NILL
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	NILL	L.S	NILL	NILL
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes’ diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	NILL	N.O	NILL	NILL
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	1	N.O		
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness(water proof). Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	NILL	L.S	NILL	NILL
13.2	Sockets and outlets:				
13.2.1	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.	NILL			
13.2.2	3 pin Single-Phase 16 Amp sockets.	2	NO.	NILL	NILL
13.2.3	Ditto, but waterproof (IP65)	1	NO.		
13.2.4	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.				
	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	1	NO.		
13.3	Lighting Points:				
13.3.1	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.	8	NO.		
13.4	Lighting Fixtures:				
13.4.1	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	5	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	2	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	1	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Um Safa Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	External Works				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating (المدرج). Price to Include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B ' 150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	11	M.R		
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	45	M.S		
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	NILL	M.S	NILL	NILL
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insulation for edges connected with building walls (metal sheet angles and special insulation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Um Safa Secondary School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS

Item	Description	Total
		NIS
Bill No. 1	Site preparation.	
Bill No. 2	Excavations, Backfilling and site works.	
Bill No. 3	Concrete Works.	
Bill No. 4	Stone Works.	
Bill No. 5	Block works.	
Bill No. 6	Plastering works.	
Bill No. 7	Tiling, Flooring and Marble works.	
Bill No. 8	Carpentry and Joinery Works.	
Bill No. 9	Steel and Aluminum Works.	
Bill No. 10	Painting Works.	
Bill No. 11	Insulation, Roofing and Expansion Joints.	
Bill No. 12	Mechanical Works.	
Bill No. 13	Electrical Works.	
Bill No. 14	External Works.	
Grand Total		

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<p><u>Demolition and Alterations Works :</u></p> <p>General:-</p> <p>* all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas.</p> <p>*Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works.</p> <p>* It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works.</p> <p>* Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...</p>				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	N/A			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
j	Removing metal ceiling.	Included			
K	Removing hand rail, corridor steel protection.	Included			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). <u>Price to include back filling with excavated suitable soil to base coarse level</u> , or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	20	M.C		
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	15	M.S		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. M form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a-from the center to center for external stone walls</p> <p>b-from the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam. (All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	10	M.S		
3.02	Supply and Cast Reinforced Concrete Grade 'B 300' for Foundations . Price to include isolation for foundations.	1	M.C		
3.03	Supply and Cast Reinforced Concrete Grade 'B 300' for Ground beams . Price to include isolation.	1	M.C		
3.04	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced Columns necks . Price to include isolation.	1	M.C		
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade . (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	13	M.S		
3.07	Ditto to above but smooth slab on grade 10 cm thick for ramp and where needed .	NILL	M.C	NILL	NILL
3.08	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced walls above Ground Slab for ramp Level.	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced Columns to hidden or drop beams level.	1	M.C		
3.10	Supply and Cast Reinforced Concrete Grade 'B300' fair face for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.h=0.50 m, T=0.20 m	2	M.C		
3.12	Supply and Cast Reinforced Concrete Grade 'B 300' for 25 cm thick ribbed slab . Price to include drop, inverted and hidden beams as per drawing, price also include reinforcement and block 0.40*0.17 m and all related works according to drawings.	13	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m³) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Manjal.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladded columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> • Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. • Supplying, storing, protection and removal of rejected and surplus materials. • Shaping, cutting and fitting. • Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). • Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. • Erecting and dismantling of scaffoldings. • Pointing and pointing materials of any type, and cleaning of walls. • Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as bellow:</p> <ol style="list-style-type: none"> 1- Density: 28-35Kg/m³. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm² <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications. Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area. No allowance for thickness used other than those shown in the drawings. Rates of Block works include: - • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • R.C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings.</p> <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	30	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	30	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. WWalls to full height(plastering behind wall tiles not calculated in this item)</p>	10	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	30	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	35	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<p><u>Tiling, Flooring And Marble Works</u></p> <p>General.</p> <p>1. All tiling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S.</p> <p>2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter.</p> <p>3. Marble works for window sills and other openings shall be measured in square meter.</p> <p>4. Parapet coping shall be measured in square meter.</p> <p>5. Rate shall include preparation of surfaces under tiles, Finish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications.</p> <p>6. Terrazzo tiles mix shall not exceed 1:3.</p>				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	150	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	33	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	2	M.S		
B	Door's thresholds	2	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	4	M.S		
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	<p>Ditto as above but for Steps and Treads of Stairs for main entrance.</p> <p>Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works.</p> <p>Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision.</p> <p>Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.</p>	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>• Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>• Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>• Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>• Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Plugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Fly screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (80*217) cm. Door Type WD1	1	NO		
B	Structural opening size (70*217) cm. Door Type WD2	4	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L. . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<u>Steel And Aluminum Works</u> General Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item). Rates for metalwork shall include for: Preparing shop drawings, Drilling, counter sinking, screwing, bolting and riveting. Lugs, plugs, holdfasts and the like. Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames. Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave. Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting. Providing three keys for each lock and padlock including tagging and a master key for all doors. Hardware including cramps, dowels and the like. Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U" shape. Preparing surfaces for painting one coat of primer before fixing. Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges. All other accessories and incidentals required to execute the work.				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	3	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	3	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 4 cm and 2.5 cm diameter hollow steel pipes. Price to include Fixing complete, oil paint three coats in addition to primer coat.	NILL	M.R	NILL	NILL
B	Grab bars of 4 cm diameter with plates. hollowsteel pipes, parallel and fixed to walls.	NILL	M.R	NILL	NILL
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (80*217) cm. Door Type DS1	2	NO		
B	Structural opening size (110*217) cm. Door Type DS2	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<p><u>Painting Works</u></p> <p>General Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted. The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.</p>				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	30	M.S		
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	30	M.S		
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	40	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	13	M.S		
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	13	M.S		
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	25	M.S		
To Summary Page				NIS	

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <ol style="list-style-type: none"> 1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified. 2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions. 3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning. 4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter. 5- Water tanks shall be measured in number. 6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network. <ol style="list-style-type: none"> 7- Drains, Floor Traps, Clean outs and the like shall be measured in number. 8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances. 9- Vents and vertical stacks shall measured in linear meter. 10- Manhole, Gallies and the like shall be measured in number. 11- External sewers pipes shall be measured in linear meter for each individual diameter and material. 12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning. 13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications. 14- Insulation and painting as called for in specifications. 15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying. 16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover. 17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer. <ol style="list-style-type: none"> 18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning. 19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer. <ol style="list-style-type: none"> 20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works. 21-All mechanical Equipments must be from agent not broker. 22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly. 23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand. 24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches. 25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if it is possible. 26- The contractor must test all existing water network and connect the fixtures to the network if it is possible. 27- Adjust all the installations of old fixture units to be suitable for the new fixture units. 28-Extension for all existing manholes to finish floor level. 				

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	5	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	3	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	7	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	2	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	NILL	N.O	NILL	NILL
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	NILL	M.R	NILL	NILL
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	2	N.O		
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	1	N.O		
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	2	N.O.E		
	b. Size 1"	7	N.O.E		
	c. Size 1 1/4"	10	N.O.E		
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	NILL	L.S	NILL	NILL
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
FORWARDED TOTAL					
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes' diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	NILL	N.O	NILL	NILL
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	1	N.O		
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	1	N.O		
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
		To Summary Page		NIS	
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness(water proof). Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	NILL	L.S	NILL	NILL
13.2	Sockets and outlets:				
	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.				
13.2.1	3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	3	NO.		
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	2	NO.		
13.2.4	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	1	NO.		
13.3	Lighting Points:				
	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.				
13.3.1		13	NO.		
13.4	Lighting Fixtures:				
	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	6	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	4	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	3	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sinjil Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	External Works				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B '150', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped). Price also includes colored painting for curb stone	6	M.R		
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	17	M.S		
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.H=1.50 m	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	NILL	M.S	NILL	NILL
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insulation for edges connected with building walls (metal sheet angles and special insulation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3. * Welding with 3.25mm Zink bars # 11. * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates, gate, handrail) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	1	L.S		
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Sinjil Boys School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total			
		NIS			
Bill No. 1	Site preparation.				
Bill No. 2	Excavations, Backfilling and site works.				
Bill No. 3	Concrete Works.				
Bill No. 4	Stone Works.				
Bill No. 5	Block works.				
Bill No. 6	Plastering works.				
Bill No. 7	Tiling, Flooring and Marble works.				
Bill No. 8	Carpentry and Joinery Works.				
Bill No. 9	Steel and Aluminum Works.				
Bill No. 10	Painting Works.				
Bill No. 11	Insulation, Roofing and Expansion Joints.				
Bill No. 12	Mechanical Works.				
Bill No. 13	Electrical Works.				
Bill No. 14	External Works.				
Grand Total					

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<p><u>Demolition and Alterations Works :</u></p> <p>General:-</p> <p>* all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas.</p> <p>*Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works.</p> <p>* It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works.</p> <p>* Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...</p>				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	N/A			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
j	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	Included			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include:-</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

[illegible]

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality</p> <p>control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a-From the center to center for external stone walls</p> <p>b-From the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam. (All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	2	M.C		
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick for ramp .	13	M.S		
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	1	M.C		
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.	NILL	M.C	NILL	NILL
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Manjal.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladded columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> • Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. • Supplying, storing, protection and removal of rejected and surplus materials. • Shaping, cutting and fitting. • Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). • Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. • Erecting and dismantling of scaffoldings. • Pointing and pointing materials of any type, and cleaning of walls. • Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as bellow:</p> <ul style="list-style-type: none"> 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm2 <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone,25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications. Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area. No allowance for thickness used other than those shown in the drawings. Rates of Block works include: - • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • R.C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings.</p> <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	55	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	7	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	20	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	10	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	85	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<p><u>Tiling, Flooring And Marble Works</u></p> <p>General.</p> <p>1. All tiling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S.</p> <p>2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter.</p> <p>3. Marble works for window sills and other openings shall be measured in square meter.</p> <p>4. Parapet coping shall be measured in square meter.</p> <p>5. Rate shall include preparation of surfaces under tiles, Finnish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications.</p> <p>6. Terrazzo tiles mix shall not exceed 1:3.</p>				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	160	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	40	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	5	M.S		
B	Door's thresholds	4	M.S		
C	Ramp parapet	2	M.S		
D	Roof parapet coping	22	M.S		
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	6	M.S		
7.05	<p>Ditto as above but for Steps and Treads of Stairs. Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works.</p> <p>Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision.</p> <p>Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.</p>	8	M.R		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Plugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Fly screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification.</p> <p>Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (80*217) cm. Door Type WD1	9	NO		
B	Structural opening size (110*217) cm. Door Type WD2	1	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<u>Steel And Aluminum Works</u> General Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item). Rates for metalwork shall include for: Preparing shop drawings, Drilling, counter sinking, screwing, bolting and riveting. Lugs, plugs, holdfasts and the like. Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames. Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave. Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting. Providing three keys for each lock and padlock including tagging and a master key for all doors. Hardware including cramps, dowels and the like. Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U" shape. Preparing surfaces for painting one coat of primer before fixing. Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges. All other accessories and incidentals required to execute the work.				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	7	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	7	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 4 cm and 2.5 cm diameter hollow steel pipes. Price to include Fixing complete, oil paint three coats in addition to primer coat.	15	M.R		
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	5	M.R		
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (100*217) cm. Door Type DS1	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<p><u>Painting Works</u></p> <p>General</p> <p>Painting and decorating to walls, ceilings and the like shall be measured net in meter square.</p> <p>Painting to other works shall be included in the related items. Color as specified by engineer.</p> <p>Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted.</p> <p>The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications.</p> <p>All paint types should be approved and having a supervision certificate from the PSI.</p>				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	60	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	40	M.S		
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	40	M.S		
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <p> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: 1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified. 2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions. 3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning. 4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter. 5- Water tanks shall be measured in number. 6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network. </p> <p> 7- Drains, Floor Traps, Clean outs and the like shall be measured in number. 8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances. 9- Vents and vertical stacks shall measured in linear meter. 10- Manhole, Galleys and the like shall be measured in number. 11- External sewers pipes shall be measured in linear meter for each individual diameter and material. 12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning. 13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications. 14- Insulation and painting as called for in specifications. 15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying. 16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover. 17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer. </p> <p> 18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning. 19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer. </p> <p> 20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works. 21-All mechanical Equipments must be from agent not broker. 22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly. 23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand. 24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches. 25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is is possible. 26- The contractor must test all existing water network and connect the fixtures to the network if it is possible. 27- Adjust all the installations of old fixture units to be suitable for the new fixture units. 28-Extension for all existing manholes to finish floor level. </p>				

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	9	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	4	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	12	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	2	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	1	N.O		
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	4	M.R		
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	NILL	N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	NILL	N.O.E	NILL	NILL
	b. Size 1"	NILL	N.O.E	NILL	NILL
	c. Size 1 1/4"	25	N.O.E		
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	1	N.O		
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	NILL	L.S	NILL	NILL
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
FORWARDED TOTAL					
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes’ diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	NILL	N.O	NILL	NILL
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
13.1.1	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness(water proof). Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications. DB-B	1	L.S		
13.2	Sockets and outlets:				
13.2.1	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications. 3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	2	NO.	NILL	NILL
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	NILL	NO.	NILL	NILL
13.2.4	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	NILL	NO.	NILL	NILL
13.3	Lighting Points:				
13.3.1	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.	16	NO.		
13.4	Lighting Fixtures:				
13.4.1	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications. . Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	11	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	4	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	1	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Khirbet Musbah Girls High School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	<u>External Works</u>				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B '150', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles for ramps . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	12	M.S		
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2" as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	NILL	M.S	NILL	NILL
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insulation for edges connected with building walls (metal sheet angles and special insulation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Khirbet Musbah Girls High School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total			
		NIS			
Bill No. 1	Site preparation.				
Bill No. 2	Excavations, Backfilling and site works.				
Bill No. 3	Concrete Works.				
Bill No. 4	Stone Works.				
Bill No. 5	Block works.				
Bill No. 6	Plastering works.				
Bill No. 7	Tiling, Flooring and Marble works.				
Bill No. 8	Carpentry and Joinery Works.				
Bill No. 9	Steel and Aluminum Works.				
Bill No. 10	Painting Works.				
Bill No. 11	Insulation, Roofing and Expansion Joints.				
Bill No. 12	Mechanical Works.				
Bill No. 13	Electrical Works.				
Bill No. 14	External Works.				
Grand Total					

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<p><u>Demolition and Alterations Works :</u></p> <p>General:-</p> <p>* all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas.</p> <p>*Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works.</p> <p>* It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works.</p> <p>* Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...</p>				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	N/A			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
j	Removing metal ceiling.	Included			
K	Removing hand rail, corridor steel protection.	Included			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	Included			
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School

Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). Price to include back filling with excavated suitable soil, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	NILL	M.C	NILL	NILL
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a-From the center to center for external stone walls</p> <p>b-From the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam. (All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for **Ein Qinya Secondary School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete. B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	NILL	M.C	NILL	NILL
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick for ramp .	NILL	M.S	NILL	NILL
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.	NILL	M.C	NILL	NILL
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General All Stone works shall be of local white stone of First Choice. Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval. Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.) Stones shall be homogeneous in color and texturing and free of any defects. Stone Specifications shall be as follows: <ul style="list-style-type: none"> • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed. All cuttings shall be made using Manjal. Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area. No measurement will be made for any recesses, projections or sides of stone pieces. Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladded columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications. No allowances shall be made for stone pieces in any shape. No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses. Rates of stone works shall include:- • Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. • Supplying, storing, protection and removal of rejected and surplus materials. • Shaping, cutting and fitting. • Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). • Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. • Erecting and dismantling of scaffoldings. • Pointing and pointing materials of any type, and cleaning of walls. • Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement.</p> <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as bellow: 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm2 Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for **Ein Qinya Secondary School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone,25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Ein Qinya Secondary School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General</p> <p>All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications.</p> <p>Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area.</p> <p>No allowance for thickness used other than those shown in the drawings.</p> <p>Rates of Block works include: -</p> <ul style="list-style-type: none">• Vertical and horizontal joints.• Cement and mortar,• Galvanized angles butter fly ties (at joints and between walls in cavity walls.• Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like.• R.C. Door jambs for classroom doors as per detailed drawings• Intels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings.• Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door.• R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists.• 20cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	60	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	5	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	10	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	10	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	110	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<p><u>Tiling, Flooring And Marble Works</u></p> <p>General.</p> <p>1. All tilling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S.</p> <p>2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter.</p> <p>3. Marble works for window sills and other openings shall be measured in square meter.</p> <p>4. Parapet coping shall be measured in square meter.</p> <p>5. Rate shall include preparation of surfaces under tiles, Finish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications.</p> <p>6. Terrazzo tiles mix shall not exceed 1:3.</p>				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	170	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	40	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	3	M.S		
B	Door's thresholds	3	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	10	M.S		
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	<p>Ditto as above but for Steps and Treads of Stairs.</p> <p>Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works.</p> <p>Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision.</p> <p>Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.</p>	6	M.R		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE:</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>• Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>• Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>• Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>• Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Lugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Fly screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.				
A	Structural opening size (80*217) cm. Door Type WD1	7	NO		
B	Structural opening size (110*217) cm. Door Type WD2	1	NO		
8.02	Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<u>Steel And Aluminum Works</u> General Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item). Rates for metalwork shall include for: Preparing shop drawings, Drilling, counter sinking, screwing, bolting and riveting. Lugs, plugs, holdfasts and the like. Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames. Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave. Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting. Providing three keys for each lock and padlock including tagging and a master key for all doors. Hardware including cramps, dowels and the like. Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U "shape. Preparing surfaces for painting one coat of primer before fixing. Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges. All other accessories and incidentals required to execute the work.				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	4	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	4	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	4	M.R		
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	NILL	M.R	NILL	NILL
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (100*217) cm. Door Type DS1	1	NO		
B	Structural opening size (90*217) cm. Door Type DS2	3	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Ein Qinya Secondary School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<p><u>Painting Works</u></p> <p>General</p> <p>Painting and decorating to walls, ceilings and the like shall be measured net in meter square.</p> <p>Painting to other works shall be included in the related items. Color as specified by engineer.</p> <p>Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted.</p> <p>The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications.</p> <p>All paint types should be approved and having a supervision certificate from the PSI.</p>				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	60	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	40	M.S		
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	40	M.S		
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender . •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <p>1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified.</p> <p>2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions.</p> <p>3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning.</p> <p>4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter.</p> <p>5- Water tanks shall be measured in number.</p> <p>6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network.</p> <p>7- Drains, Floor Traps, Clean outs and the like shall be measured in number.</p> <p>8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances.</p> <p>9- Vents and vertical stacks shall measured in linear meter.</p> <p>10- Manhole, Galleys and the like shall be measured in number.</p> <p>11- External sewers pipes shall be measured in linear meter for each individual diameter and material.</p> <p>12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning.</p> <p>13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications.</p> <p>14- Insulation and painting as called for in specifications.</p> <p>15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying.</p> <p>16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover.</p> <p>17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer.</p> <p>18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning.</p> <p>19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer.</p> <p>20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works.</p> <p>21-All mechanical Equipments must be from agent not broker.</p> <p>22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly.</p> <p>23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand.</p> <p>24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches.</p> <p>25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if it is possible.</p> <p>26- The contractor must test all existing water network and connect the fixtures to the network if it is possible.</p> <p>27- Adjust all the installations of old fixture units to be suitable for the new fixture units.</p> <p>28-Extension for all existing manholes to finish floor level.</p>				

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	8	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	6	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	11	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	3	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	1	N.O		
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	5	M.R		
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page					
FORWARDED TOTAL				NIS	

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap . b. Ditto, but 40 Liter .	NILL 2	N.O N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	4	N.O.E		
	b. Size 1"	15	N.O.E		
	c. Size 1 1/4"	12	N.O.E		
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	NILL	L.S	NILL	NILL
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	1	L.S		
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes' diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	NILL	N.O	NILL	NILL
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Ein Qinya Secondary School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness(WATER PROOF). Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	1	L.S		
13.2	Sockets and outlets:				
	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.				
13.2.1	3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	5	NO.		
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	NILL	NO.	NILL	NILL
13.2.4	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	2	NO.		
13.3	Lighting Points:				
	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.				
13.3.1		18	NO.		
13.4	Lighting Fixtures:				
	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54.	10	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	4	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	4	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Ein Qinya Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	<u>External Works</u>				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B ' 150 ' , pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	20	M.S		
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	NILL	M.S	NILL	NILL
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	17	M.S		
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insulation for edges connected with building walls (metal sheet angles and special insulation materials).	1	L.S		
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3. * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Ein Qinya Secondary School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total NIS			
Bill No. 1	Site preparation.				
Bill No. 2	Excavations, Backfilling and site works.				
Bill No. 3	Concrete Works.				
Bill No. 4	Stone Works.				
Bill No. 5	Block works.				
Bill No. 6	Plastering works.				
Bill No. 7	Tiling, Flooring and Marble works.				
Bill No. 8	Carpentry and Joinery Works.				
Bill No. 9	Steel and Aluminum Works.				
Bill No. 10	Painting Works.				
Bill No. 11	Insulation, Roofing and Expansion Joints.				
Bill No. 12	Mechanical Works.				
Bill No. 13	Electrical Works.				
Bill No. 14	External Works.				
Grand Total					

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<p><u>Demolition and Alterations Works :</u></p> <p>General:-</p> <p>* all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas.</p> <p>* Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works.</p> <p>* It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works.</p> <p>* Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition any electrical / plumbing/ services in external works as well, including poles, cables, etc...</p>				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	N/A			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
J	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	Included			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <ol style="list-style-type: none"> Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e. <ol style="list-style-type: none"> From Reduced Level when R. L. is lower than N. G. L. From N. G. L. when N. G. L. is lower than the Reduced Level. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.) Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer. <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates. Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities. Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation. Rate of Excavation shall include: - Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms. Planking and strutting. Cost of lab. Tests of works and materials.</p>				

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). <u>Price to include back filling with excavated suitable soil to base coarse level</u> , or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	30	M.C		
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	30	M.S		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a- from the center to center for external stone walls</p> <p>b- from the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam.</p> <p>(All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	17	M.S		
3.02	Supply and Cast Reinforced Concrete Grade 'B 300' for Foundations . Price to include isolation for foundations.	4	M.C		
3.03	Supply and Cast Reinforced Concrete Grade 'B 300' for Ground beams . Price to include isolation.	NILL	M.C	NILL	NILL
3.04	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250' . For Slab on Grade . (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but smooth slab on grade 10 cm thick for ramp and where needed .	50	M.S		
3.08	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced walls above Ground Slab for ramp Level.	6	M.C		
3.09	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B300' fair face for Stairs , landings, flighting's and its beams in building.	2	M.C		
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.h=0.50 m, T=0.20 m	2	M.C		
3.12	Supply and Cast Reinforced Concrete Grade 'B 300' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Manjal.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladded columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> • Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. • Supplying, storing, protection and removal of rejected and surplus materials. • Shaping, cutting and fitting. • Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). • Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. • Erecting and dismantling of scaffoldings. • Pointing and pointing materials of any type, and cleaning of walls. • Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>3cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as below:</p> <ol style="list-style-type: none"> 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm2 <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications. Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area. No allowance for thickness used other than those shown in the drawings. Rates of Block works include: -</p> <ul style="list-style-type: none"> • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • R.C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	20	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	4	M.S		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	NILL	M.S	NILL	NILL
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	NILL	M.S	NILL	NILL
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	75	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<p><u>Tiling, Flooring And Marble Works</u></p> <p>General.</p> <p>1. All tiling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S.</p> <p>2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter.</p> <p>3. Marble works for window sills and other openings shall be measured in square meter.</p> <p>4. Parapet coping shall be measured in square meter.</p> <p>5. Rate shall include preparation of surfaces under tiles, Finnish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications.</p> <p>6. Terrazzo tiles mix shall not exceed 1:3.</p>				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	55	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	17	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	2	M.S		
B	Door's thresholds	1	M.S		
C	Ramp parapet	6	M.S		
D	Roof parapet coping	5	M.S		
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	<p>Ditto as above but for Steps and Treads of Stairs for main entrance.</p> <p>Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works.</p> <p>Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision.</p> <p>Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.</p>	5	M.R		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Plugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Fly screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.				
A	Structural opening size (80*217) cm. Door Type WD1	NILL	NO	NILL	NILL
8.02	Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<p><u>Steel And Aluminum Works</u></p> <p>General</p> <p>Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item).</p> <p>Rates for metalwork shall include for:</p> <p>Preparing shop drawings,</p> <p>Drilling, counter sinking, screwing, bolting and riveting.</p> <p>Lugs, plugs, holdfasts and the like.</p> <p>Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames.</p> <p>Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave.</p> <p>Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting.</p> <p>Providing three keys for each lock and padlock including tagging and a master key for all doors.</p> <p>Hardware including cramps, dowels and the like.</p> <p>Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U" shape.</p> <p>Preparing surfaces for painting one coat of primer before fixing.</p> <p>Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges.</p> <p>All other accessories and incidentals required to execute the work.</p>				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	2	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	2	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 4 cm and 2.5 cm diameter hollow steel pipes. Price to include Fixing complete, oil paint three coats in addition to primer coat.	22	M.R		
B	Grab bars of 4 cm diameter with plates. hollowsteel pipes, parallel and fixed to walls.	20	M.R		
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (100*217) cm. Door Type DS1	2	NO		
B	Structural opening size (110*217) cm. Door Type DS2	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<p><u>Painting Works</u></p> <p>General</p> <p>Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted.</p> <p>The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.</p>				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	20	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	18	M.S		
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	18	M.S		
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <ol style="list-style-type: none"> 1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified. 2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions. 3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning. 4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter. 5- Water tanks shall be measured in number. 6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network. <ol style="list-style-type: none"> 7- Drains, Floor Traps, Clean outs and the like shall be measured in number. 8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances. 9- Vents and vertical stacks shall measured in linear meter. 10- Manhole, Galleys and the like shall be measured in number. 11- External sewers pipes shall be measured in linear meter for each individual diameter and material. 12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning. 13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications. 14- Insulation and painting as called for in specifications. 15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying. 16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover. 17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer. <ol style="list-style-type: none"> 18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning. 19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer. 20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works. 21-All mechanical Equipments must be from agent not broker. 22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly. 23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand. 24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches. 25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is possible. 26- The contractor must test all existing water network and connect the fixtures to the network if it is possible. 27- Adjust all the installations of old fixture units to be suitable for the new fixture units. 28-Extension for all existing manholes to finish floor level. 				

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	2	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	2	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	3	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	1	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	1	N.O		
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	5	M.R		
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap . b. Ditto, but 40 Liter .	NILL 1	N.O N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	2	N.O.E		
	b. Size 1"	NILL	N.O.E	NILL	NILL
	c. Size 1 1/4"	10	N.O.E		
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	NILL	L.S	NILL	NILL
	B- Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	1	L.S		
	C- Ditto, but metal cover for drinking fountain.	1	L.S		
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	1	L.S		
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes' diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	NILL	N.O	NILL	NILL
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness. (water proof) Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	1	L.S		
13.2	Sockets and outlets:				
	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.				
13.2.1	3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	3	NO.		
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	NILL	NO.	NILL	NILL
13.2.4	Supply, install, commission and test a Boiler Point. The price includes Isolating switch with indication lamp, cables (3×4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	1	NO.		
13.3	Lighting Points:				
	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.				
13.3.1		6	NO.		
13.4	Lighting Fixtures:				
	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	1	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	3	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	2	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fatiheen Elementary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	<u>External Works</u>				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to Include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B ' 150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	12	M.R		
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	NILL	M.S	NILL	NILL
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.H=1.50 m	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	NILL	M.S	NILL	NILL
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insulation for edges connected with building walls (metal sheet angles and special insulation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Al Fatiheen Elementary School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS

Item	Description	Total NIS
Bill No. 1	Site preparation.	
Bill No. 2	Excavations, Backfilling and site works.	
Bill No. 3	Concrete Works.	
Bill No. 4	Stone Works.	
Bill No. 5	Block works.	
Bill No. 6	Plastering works.	
Bill No. 7	Tiling, Flooring and Marble works.	
Bill No. 8	Carpentry and Joinery Works.	
Bill No. 9	Steel and Aluminum Works.	
Bill No. 10	Painting Works.	
Bill No. 11	Insulation, Roofing and Expansion Joints.	
Bill No. 12	Mechanical Works.	
Bill No. 13	Electrical Works.	
Bill No. 14	External Works.	
Grand Total		

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<p><u>Demolition and Alterations Works :</u></p> <p>General:-</p> <p>* all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas.</p> <p>*Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works.</p> <p>* It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works.</p> <p>* Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...</p>				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	Included			
F	Removing existing drinking fountain.	Included			
G	New doors and windows openings.	N/A			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
J	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	Included			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <ol style="list-style-type: none"> Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e. <ol style="list-style-type: none"> From Reduced Level when R. L. is lower than N. G. L. From N. G. L. when N. G. L. is lower than the Reduced Level. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.) Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer. <ol style="list-style-type: none"> Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates. Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities. Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation. Rate of Excavation shall include: - Excavation to any depth, in any shape, in any type of soil, <p>Leveling, ramming, trimming and grading excavation bottoms. Planking and strutting. Cost of lab. Tests of works and materials.</p>				

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). Price to include back filling with excavated suitable soil, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	NILL	M.C	NILL	NILL
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	10	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurrred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality</p> <p>control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a- from the center to center for external stone walls</p> <p>b- from the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam.</p> <p>(All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	1	M.C		
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick for ramp .	10	M.S		
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.	NILL	M.C	NILL	NILL
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Manjal.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladged columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> - Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. - Supplying, storing, protection and removal of rejected and surplus materials. - Shaping, cutting and fitting. - Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). - Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. - Erecting and dismantling of scaffoldings. - Pointing and pointing materials of any type, and cleaning of walls. - Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as bellow:</p> <ol style="list-style-type: none"> 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm2 <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General</p> <p>All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications.</p> <p>Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area.</p> <p>No allowance for thickness used other than those shown in the drawings.</p> <p>Rates of Block works include: -</p> <ul style="list-style-type: none"> • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • L.C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • L. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	25	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	NILL	M.S	NILL	NILL
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	10	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	10	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and levelling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	180	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tiling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Rate shall include preparation of surfaces under tiles, Finish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	270	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	60	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	3	M.S		
B	Door's thresholds	3	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	NILL	M.S	NILL	NILL
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	Ditto as above but for Steps and Treads of Stairs . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE. SIZES OF CARPENTRY WORKS GIVEN IN THE BILLS OF QUANTITIES ARE FINISHED SIZES AND SHALL BE AS PER DRAWINGS. SIZES OF DOORS AND OTHER ITEMS MENTIONED IN THE BILLS OF QUANTITIES SHALL ALLOW FOR TOLERANCE TO SUIT THE STRUCTURAL OPENINGS SHOWN IN THE DRAWINGS. -WOODEN DOORS AND PAIR OF DOORS SHALL BE MEASURED IN NUMBER FOR EACH STRUCTURAL OPENING, UNLESS STATED OTHERWISE IN THE BILLS OF QUANTITIES. -WRITING BOARDS SHALL BE MEASURED IN NUMBER OR IN SQUARED METERS AS MENTIONED IN THE BILLS OF QUANTITIES. -WALL PROTECTION WOODEN RUBBING RAILS SHALL BE MEASURED IN LINEAR METER. -ELOTH HANGERS AND HANGER WOODEN BASE SHALL BE MEASURED IN NUMBER OR IN LINEAR METER AS STATED IN THE BILLS OF QUANTITIES. RATES FOR CARPENTRY AND JOINERY WORK SHALL INCLUDE: a) SHOP AND COORDINATED DRAWINGS. b) FRAMES, ARCHITRAVE, CHALK HOLDERS AND OTHER HOLDERS AND KICK PLATES. c) ALLOWANCE FOR PLASTERING AND TILING AND THE LIKE. d) CUTTING AND FITTING AROUND OBSTRUCTIONS, BEDDING AND PAINTING. e) GROUNDS, BLOCKING AND BACKINGS. f) PLAGGING CONCRETE, BLOCK WORK, AND STONE WORK, AND MAKING WELL. g) IRONMONGERY INCLUDING CYLINDERS, CYLINDRICAL LOCKS WITH MASTER KEY FOR ALL THE DOORS, HANDLES, STOPPERS, SCREWS, TEMPORARY FIXING, RE-FIXING, OILING AND ADJUSTING. h) PROVIDING THREE KEYS FOR EACH LOCK INCLUDING TAGGING. i) PROVIDING AND FIXING WALL MOUNTED WOODEN KEYS CABINET, (70*70*10) CM. VARNISH FINISHED WITH ALL IRONMONGERY INCLUDING CYLINDRICAL LOCK. j) STEEL LEGS, BRACKETS, BEARERS AND OTHER SUPPORTS INCLUDING PAINTING. k) GLASS AND GLAZING INCLUDING CUTTING TO SIZE AND PUTTY. l) ELY SCREENING INCLUDING CUTTING TO SIZE. m) PREPARED SURFACES TO RECEIVE FINISHES. n) PAINTING, VARNISHING, POLISHING, OILING, AND THE LIKE, TO ANY AREA OR WIDTH IN ANY LOCATION INCLUDING WORK IN MULTICOLOR AND CUTTING IN EDGES AND PUTTY.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (70*217) cm. Door Type WD1	14	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<u>Steel And Aluminum Works</u> General Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item). Rates for metalwork shall include for: Preparing shop drawings, Drilling, counter sinking, screwing, bolting and riveting. Lugs, plugs, holdfasts and the like. Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames. Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave. Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting. Providing three keys for each lock and padlock including tagging and a master key for all doors. Hardware including cramps, dowels and the like. Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U "shape. Preparing surfaces for painting one coat of primer before fixing. Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges. All other accessories and incidentals required to execute the work.				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	4	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	4	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	12	M.R		
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	NILL	M.R	NILL	NILL
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (90*217) cm. Door Type DS1	1	NO		
B	Structural opening size (110*217) cm. Door Type DS2	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<p><u>Painting Works</u></p> <p>General</p> <p>Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted.</p> <p>The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.</p>				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	100	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	NILL	M.S	NILL	NILL
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <p>1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified.</p> <p>2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions.</p> <p>3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning.</p> <p>4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter.</p> <p>5- Water tanks shall be measured in number.</p> <p>6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network.</p> <p>7- Drains, Floor Traps, Clean outs and the like shall be measured in number.</p> <p>8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances.</p> <p>9- Vents and vertical stacks shall measured in linear meter.</p> <p>10- Manhole, Galleys and the like shall be measured in number.</p> <p>11- External sewers pipes shall be measured in linear meter for each individual diameter and material.</p> <p>12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning.</p> <p>13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications.</p> <p>14- Insulation and painting as called for in specifications.</p> <p>15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying.</p> <p>16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover.</p> <p>17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer.</p> <p>18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning.</p> <p>19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer.</p> <p>20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works.</p> <p>21- All mechanical Equipments must be from agent not broker.</p> <p>22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly.</p> <p>23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand.</p> <p>24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches.</p> <p>25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is is possible.</p> <p>26- The contractor must test all existing water network and connect the fixtures to the network if it is possible.</p> <p>27- Adjust all the installations of old fixture units to be suitable for the new fixture units.</p> <p>28-Extension for all existing manholes to finish floor level.</p>				

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	10	N.O		
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	4	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	6	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	7	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	4	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	NILL	N.O	NILL	NILL
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	NILL	M.R	NILL	NILL
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	NILL	N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size $\frac{3}{4}$ "	NILL	N.O.E	NILL	NILL
	b. Size 1"	17	N.O.E		
	c. Size 1 1/4"	20	N.O.E		
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	1	L.S		
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
		To Next Page		NIS	
	FORWARDED TOTAL				

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes’ diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	9	N.O		
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but inline type 300 cfm @ 110 pa with duct and grills.	2	N.O		
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness. (water proof) Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	1	L.S		
13.2	Sockets and outlets:				
	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.				
13.2.1	3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	3	NO.		
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	2	NO.		
13.2.4	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	NILL	NO.	NILL	NILL
13.3	Lighting Points:				
	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.				
13.3.1		21	NO.		
13.4	Lighting Fixtures:				
	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	16	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	4	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	1	NO.		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Dirar Ibn Al Azwar Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	<u>External Works</u>				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B ' 150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	NILL	M.S	NILL	NILL
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	10	M.S		
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insulation for edges connected with building walls (metal sheet angles and special insulation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel structure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Dirar Ibn Al Azwar Secondary Boys School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS

Item	Description	Total NIS
Bill No. 1	Site preparation.	
Bill No. 2	Excavations, Backfilling and site works.	
Bill No. 3	Concrete Works.	
Bill No. 4	Stone Works.	
Bill No. 5	Block works.	
Bill No. 6	Plastering works.	
Bill No. 7	Tiling, Flooring and Marble works.	
Bill No. 8	Carpentry and Joinery Works.	
Bill No. 9	Steel and Aluminum Works.	
Bill No. 10	Painting Works.	
Bill No. 11	Insulation, Roofing and Expansion Joints.	
Bill No. 12	Mechanical Works.	
Bill No. 13	Electrical Works.	
Bill No. 14	External Works.	
Grand Total		

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<u>Demolition and Alterations Works :</u> General:- * all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas. * Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works. * It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works. * Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	N/A			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	Included			
G	New doors and windows openings.	N/A			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
j	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	N/A			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). Price to include back filling with excavated suitable soil, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	NILL	M.C	NILL	NILL
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be: a-B200 ___ 250kg/m3 b-B250 ___ 300kg/m3 c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be: a- From the center to center for external stone walls b- From the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam. (All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	NILL	M.C	NILL	NILL
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick for ramp .	NILL	M.S	NILL	NILL
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.	NILL	M.C	NILL	NILL
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General All Stone works shall be of local white stone of First Choice. Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval. Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.) Stones shall be homogeneous in color and texturing and free of any defects. Stone Specifications shall be as follows: • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed. All cuttings shall be made using Manjal. Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area. No measurement will be made for any recesses, projections or sides of stone pieces. Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladded columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications. No allowances shall be made for stone pieces in any shape. No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses. Rates of stone works shall include: - · Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. · Supplying, storing, protection and removal of rejected and surplus materials. · Shaping, cutting and fitting. · Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). · Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. · Erecting and dismantling of scaffoldings. · Pointing and pointing materials of any type, and cleaning of walls. · Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement.</p> <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as below: 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm2 Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications. Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area. No allowance for thickness used other than those shown in the drawings. Rates of Block works include: -</p> <ul style="list-style-type: none"> • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • R.C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	5	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	5	M.S		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<u>Plastering Works</u> General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.				
6.01	Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required. Internal plaster: Walls and ceilings including drop beams. a. Walls to full height(plastering behind wall tiles not calculated in this item)	10	M.S		
	b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)	10	M.S		
6.02	External plaster: a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.	20	M.S		
	b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris , material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tilling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Base shall include preparation of surfaces under tiles, Finnish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	50	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	10	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	2	M.S		
B	Door's thresholds	3	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	NILL	M.S	NILL	NILL
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	Ditto as above but for Steps and Treads of Stairs . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	4	M.R		

To Summary Page

NIS

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>· Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>· Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>· Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>· Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Plugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Fly screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (70*217) cm. Door Type WD1	3	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<u>Steel And Aluminum Works</u> General Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item). Rates for metalwork shall include for: Preparing shop drawings, Drilling, counter sinking, screwing, bolting and riveting. Lugs, plugs, holdfasts and the like. Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames. Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave. Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting. Providing three keys for each lock and padlock including tagging and a master key for all doors. Hardware including cramps, dowels and the like. Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U" shape. Preparing surfaces for painting one coat of primer before fixing. Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges. All other accessories and incidentals required to execute the work.				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	1	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	1	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	NILL	M.R	NILL	NILL
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	NILL	M.R	NILL	NILL
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (100*217) cm. Door Type DS1	1	NO		
B	ditto to above but for existing doors of class rooms and size according to site	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<u>Painting Works</u> General Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted. The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	20	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	NILL	M.S	NILL	NILL
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <p>•The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender.</p> <p>•The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work.</p> <p>•The contractor is requested to equally consider the following notes when quoting his prices:</p> <p>1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified.</p> <p>2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions.</p> <p>3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning.</p> <p>4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter.</p> <p>5- Water tanks shall be measured in number.</p> <p>6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply, fittings connection, to Nearest riser or manhole or existing network.</p> <p>7- Drains, Floor Traps, Clean outs and the like shall be measured in number.</p> <p>8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances.</p> <p>9- Vents and vertical stacks shall measured in linear meter.</p> <p>10- Manhole, Galleys and the like shall be measured in number.</p> <p>11- External sewers pipes shall be measured in linear meter for each individual diameter and material.</p> <p>12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning.</p> <p>13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications.</p> <p>14- Insulation and painting as called for in specifications.</p> <p>15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying.</p> <p>16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover.</p> <p>17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer.</p> <p>18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning.</p> <p>19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer.</p> <p>20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works.</p> <p>21-All mechanical Equipments must be from agent not broker.</p> <p>22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly.</p> <p>23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand.</p> <p>24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches.</p> <p>25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is possible.</p> <p>26- The contractor must test all existing water network and connect the fixtures to the network if it is possible.</p> <p>27- Adjust all the installations of old fixture units to be suitable for the new fixture units.</p> <p>28-Extension for all existing manholes to finish floor level.</p>				

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	3	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	NILL	N.O	NILL	NILL
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	2	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	NILL	N.O	NILL	NILL
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	4	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	1	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	NILL	N.O	NILL	NILL
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	NILL	M.R	NILL	NILL
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
FORWARDED TOTAL					
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	2	N.O		
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	NILL	N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	NILL	N.O.E	NILL	NILL
	b. Size 1"	8	N.O.E		
	c. Size 1 1/4"	NILL	N.O.E	NILL	NILL
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	1	L.S		
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
FORWARDED TOTAL					
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes' diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	NILL	N.O	NILL	NILL
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	1	N.O		
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness(water proof). Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	1	L.S		
13.2	Sockets and outlets:				
	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.				
13.2.1	3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	1	NO.		
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	1	NO.		
13.2.4	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	NILL	NO.	NILL	NILL
13.3	Lighting Points:				
	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.				
13.3.1		6	NO.		
13.4	Lighting Fixtures:				
	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	4	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	1	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	1	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sabastia Secondary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	External Works				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to Include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B '150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	25	M.S		
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	10	M.S		
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintainance for existing metal canopy . Price to include fix any damaged sheet, insulation for edges connected with building walls (metal sheet angles and special insulation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Sabastia Secondary School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total NIS			
Bill No. 1	Site preparation.				
Bill No. 2	Excavations, Backfilling and site works.				
Bill No. 3	Concrete Works.				
Bill No. 4	Stone Works.				
Bill No. 5	Block works.				
Bill No. 6	Plastering works.				
Bill No. 7	Tiling, Flooring and Marble works.				
Bill No. 8	Carpentry and Joinery Works.				
Bill No. 9	Steel and Aluminum Works.				
Bill No. 10	Painting Works.				
Bill No. 11	Insulation, Roofing and Expansion Joints.				
Bill No. 12	Mechanical Works.				
Bill No. 13	Electrical Works.				
Bill No. 14	External Works.				
Grand Total Excluding VAT					

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<p><u>Demolition and Alterations Works :</u></p> <p>General:-</p> <p>* all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas.</p> <p>*Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works.</p> <p>* It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works.</p> <p>* Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...</p>				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	N/A			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	N/A			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
j	Removing metal ceiling.	Included			
K	Removing hand rail, corridor steel protection.	N/A			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <ol style="list-style-type: none"> Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e. <ol style="list-style-type: none"> From Reduced Level when R. L. is lower than N. G. L. From N. G. L. when N. G. L. is lower than the Reduced Level. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.) Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer. <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates. Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities. Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation. Rate of Excavation shall include: - Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms. Planking and strutting. Cost of lab. Tests of works and materials.</p>				

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). <u>Price to include back filling with excavated suitable soil to base coarse level, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.</u>	20	M.C		
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	15	M.S		

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
		To Summary Page		NIS	
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality</p> <p>control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a- from the center to center for external stone walls</p> <p>b- from the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam. (All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	5	M.S		
3.02	Supply and Cast Reinforced Concrete Grade 'B 300' for Foundations . Price to include isolation for foundations.	1	M.C		
3.03	Supply and Cast Reinforced Concrete Grade 'B 300' for Ground beams . Price to include isolation.	2	M.C		
3.04	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced Columns necks . Price to include isolation.	1	M.C		
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade . (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	8	M.S		
3.07	Ditto to above but smooth slab on grade 10 cm thick for ramp and where needed .	4	M.S		
3.08	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced walls above Ground Slab for ramp Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced Columns to hidden or drop beams level.	1	M.C		
3.10	Supply and Cast Reinforced Concrete Grade 'B300' fair face for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.h=0.50 m, T=0.20 m	3	M.C		
3.12	Supply and Cast Reinforced Concrete Grade 'B 300' for 25 cm thick ribbed slab . Price to include drop, inverted and hidden beams as per drawing, price also include reinforcement and block 0.40*0.17 m and all related works according to drawings.	8	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Manjal.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings.</p> <p>Neither the projections (including the sides of the stone cladde columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> ·Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. ·Supplying, storing, protection and removal of rejected and surplus materials. ·Shaping, cutting and fitting. ·Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). ·Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. ·Erecting and dismantling of scaffoldings. ·Pointing and pointing materials of any type, and cleaning of walls. ·Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as below:</p> <ul style="list-style-type: none"> 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value):0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression):0.15-0.20N/mm2 <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General</p> <p>All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications.</p> <p>Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area.</p> <p>No allowance for thickness used other than those shown in the drawings.</p> <p>Rates of Block works include: -</p> <ul style="list-style-type: none"> • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • R.C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	NILL	M.S	NILL	NILL
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	25	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	10	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	10	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	60	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tilling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Rate shall include preparation of surfaces under tiles, Finnish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	85	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	17	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	1	M.S		
B	Door's thresholds	2	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	12	M.S		
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	14	M.S		
7.05	Ditto as above but for Steps and Treads of Stairs for main entrance. Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with groves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	3	M.R		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Plugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Fly screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (70*217) cm. Door Type WD1	3	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<u>Steel And Aluminum Works</u> General Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item). Rates for metalwork shall include for: Preparing shop drawings, Drilling, counter sinking, screwing, bolting and riveting. Lugs, plugs, holdfasts and the like. Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames. Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave. Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting. Providing three keys for each lock and padlock including tagging and a master key for all doors. Hardware including cramps, dowels and the like. Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U" shape. Preparing surfaces for painting one coat of primer before fixing. Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges. All other accessories and incidentals required to execute the work.				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	5	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	5	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 4 cm and 2.5 cm diameter hollow steel pipes. Price to include Fixing complete, oil paint three coats in addition to primer coat.	5	M.R		
B	Grab bars of 4 cm diameter with plates. hollowsteel pipes, parallel and fixed to walls.	3	M.R		
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (100*217) cm. Door Type DS1	3	NO		
B	Structural opening size (110*217) cm. Door Type DS2	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<u>Painting Works</u> General Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted. The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	35	M.S		
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	35	M.S		
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	50	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble.</p> <p>All finishes shall be measured superficially net unless other wise stated clearly.</p> <p>All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured.</p> <p>Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly.</p> <p>Rates for cement and sand work shall include for:</p> <p>Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface.</p> <p>Finish to surface, to falls, cross-falls and currents.</p> <p>Forming bays including joints. Finish to edges and arises.</p> <p>Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like.</p> <p>Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices.</p> <p>Rates for waterproofing and roof sheeting shall include for</p> <p>Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains.</p> <p>Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer.</p> <p>Side and end laps, Fittings including bolts, hook bolts, screws and washers,</p> <p>Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	45	M.S		
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	45	M.S		
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <ol style="list-style-type: none"> 1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified. 2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions. 3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning. 4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter. 5- Water tanks shall be measured in number. 6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network. <ol style="list-style-type: none"> 7- Drains, Floor Traps, Clean outs and the like shall be measured in number. 8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances. 9- Vents and vertical stacks shall measured in linear meter. 10- Manhole, Galleys and the like shall be measured in number. 11- External sewers pipes shall be measured in linear meter for each individual diameter and material. 12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning. 13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications. 14- Insulation and painting as called for in specifications. 15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying. 16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover. 17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer. <ol style="list-style-type: none"> 18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning. 19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer. 20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works. 21- All mechanical Equipments must be from agent not broker. 22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly. 23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand. 24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches. 25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is is possible. 26- The contractor must test all existing water network and connect the fixtures to the network if it is possible. 27- Adjust all the installations of old fixture units to be suitable for the new fixture units. 28-Extension for all existing manholes to finish floor level. 				

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	4	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	3	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	7	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	4	M.R		
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	3	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	2	N.O		
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	8	M.R		
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap . b. Ditto, but 40 Liter .	NILL 1	N.O N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	2	N.O.E		
	b. Size 1"	15	N.O.E		
	c. Size 1 1/4"	NILL	N.O.E	NILL	NILL
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	NILL	L.S	NILL	NILL
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	1	L.S		
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes' diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	NILL	N.O	NILL	NILL
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	1	N.O		
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness(water proof). Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	1	L.S		
13.2	Sockets and outlets:				
	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.				
13.2.1	3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	3	NO.		
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	1	NO.		
13.2.4	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	1	NO.		
13.3	Lighting Points:				
	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.				
13.3.1		9	NO.		
13.4	Lighting Fixtures:				
	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	5	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	2	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	2	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Qusen Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	<u>External Works</u>				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to Include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B '150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	7	M.R		
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	NILL	M.S	NILL	NILL
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2" as shown on drawings, work include all necessary fittings. H=1.50 m	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	8	M.S		
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insulation for edges connected with building walls (metal sheet angles and special insulation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Qusen Elemntary School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS

Item	Description	Total
		NIS
Bill No. 1	Site preparation.	
Bill No. 2	Excavations, Backfilling and site works.	
Bill No. 3	Concrete Works.	
Bill No. 4	Stone Works.	
Bill No. 5	Block works.	
Bill No. 6	Plastering works.	
Bill No. 7	Tiling, Flooring and Marble works.	
Bill No. 8	Carpentry and Joinery Works.	
Bill No. 9	Steel and Aluminum Works.	
Bill No. 10	Painting Works.	
Bill No. 11	Insulation, Roofing and Expansion Joints.	
Bill No. 12	Mechanical Works.	
Bill No. 13	Electrical Works.	
Bill No. 14	External Works.	
Grand Total		

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<p><u>Demolition and Alterations Works :</u></p> <p>General:-</p> <p>* all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas.</p> <p>*Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works.</p> <p>* It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works.</p> <p>* Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...</p>				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	Included			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
J	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	N/A			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page				NIS	0

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <ol style="list-style-type: none"> Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e. <ol style="list-style-type: none"> From Reduced Level when R. L. is lower than N. G. L. From N. G. L. when N. G. L. is lower than the Reduced Level. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.) Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer. <ol style="list-style-type: none"> Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates. Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities. Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation. Rate of Excavation shall include: - Excavation to any depth, in any shape, in any type of soil, <p>Leveling, ramming, trimming and grading excavation bottoms. Planking and strutting. Cost of lab. Tests of works and materials.</p>				

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). Price to include back filling with excavated suitable soil, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	NILL	M.C	NILL	NILL
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete</p> <p>quality control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a- From the center to center for external stone walls</p> <p>b- From the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam. (All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	NILL	M.C	NILL	NILL
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick for ramp .	NILL	M.S	NILL	NILL
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.	4	M.C		
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General All Stone works shall be of local white stone of First Choice. Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval. Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.) Stones shall be homogeneous in color and texturing and free of any defects. Stone Specifications shall be as follows: • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed. All cuttings shall be made using Manjal. Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area. No measurement will be made for any recesses, projections or sides of stone pieces. Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladded columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications. No allowances shall be made for stone pieces in any shape. No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses. Rates of stone works shall include: - • Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. • Supplying, storing, protection and removal of rejected and surplus materials. • Shaping, cutting and fitting. • Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). • Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. • Erecting and dismantling of scaffoldings. • Pointing and pointing materials of any type, and cleaning of walls. • Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement.</p> <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as below: 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm2 Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications. Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area. No allowance for thickness used other than those shown in the drawings. Rates of Block works include: -</p> <ul style="list-style-type: none"> • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	30	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	20	M.S		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	10	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	10	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	120	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tiling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Rate shall include preparation of surfaces under tiles, Finnish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	190	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	55	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	4	M.S		
B	Door's thresholds	4	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	10	M.S		
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	Ditto as above but for Steps and Treads of Stairs . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>• Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>• Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>• Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>• Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Plugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Fly screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (100*217) cm. Door Type WD1	1	NO		
B	Structural opening size (80*217) cm. Door Type WD2	4	NO		
C	Structural opening size (110*217) cm. Door Type WD3	1	NO		
D	Structural opening size (70*217) cm. Door Type WD4	6	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<p><u>Steel And Aluminum Works</u></p> <p>General</p> <p>Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item).</p> <p>Rates for metalwork shall include for:</p> <p>Preparing shop drawings,</p> <p>Drilling, counter sinking, screwing, bolting and riveting.</p> <p>Lugs, plugs, holdfasts and the like.</p> <p>Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames.</p> <p>Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave.</p> <p>Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting.</p> <p>Providing three keys for each lock and padlock including tagging and a master key for all doors.</p> <p>Hardware including cramps, dowels and the like.</p> <p>Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U" shape.</p> <p>Preparing surfaces for painting one coat of primer before fixing.</p> <p>Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges.</p> <p>All other accessories and incidentals required to execute the work.</p>				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	4	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	4	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	NILL	M.R	NILL	NILL
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	NILL	M.R	NILL	NILL
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (100*217) cm. Door Type DS1	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<p><u>Painting Works</u></p> <p>General</p> <p>Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted.</p> <p>The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.</p>				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	100	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	85	M.S		
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	85	M.S		
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <p>1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified.</p> <p>2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions.</p> <p>3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning.</p> <p>4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter.</p> <p>5- Water tanks shall be measured in number.</p> <p>6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network.</p> <p>7- Drains, Floor Traps, Clean outs and the like shall be measured in number.</p> <p>8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances.</p> <p>9- Vents and vertical stacks shall measured in linear meter.</p> <p>10- Manhole, Galleys and the like shall be measured in number.</p> <p>11- External sewers pipes shall be measured in linear meter for each individual diameter and material.</p> <p>12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning.</p> <p>13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications.</p> <p>14- Insulation and painting as called for in specifications.</p> <p>15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying.</p> <p>16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover.</p> <p>17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer.</p> <p>18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning.</p> <p>19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer.</p> <p>20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works.</p> <p>21- All mechanical Equipments must be from agent not broker.</p> <p>22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly.</p> <p>23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand.</p> <p>24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches.</p> <p>25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is possible.</p> <p>26- The contractor must test all existing water network and connect the fixtures to the network if it is possible.</p> <p>27- Adjust all the installations of old fixture units to be suitable for the new fixture units.</p> <p>28-Extension for all existing manholes to finish floor level.</p>				

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	10	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	NILL	N.O	NILL	NILL
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	15	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	4	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	1	N.O		
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	5	M.R		
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	2	N.O		
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	NILL	N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	NILL	N.O.E	NILL	NILL
	b. Size 1"	16	N.O.E		
	c. Size 1 1/4"	12	N.O.E		
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	1	L.S		
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes’ diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer. b.Ditto but 200 cfm.	7	N.O		
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	1	N.O		
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	7	N.O		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness. (water proof) Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	1	L.S		
13.2	Sockets and outlets:				
	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.				
13.2.1	3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	3	NO.		
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	8	NO.		
13.2.4	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	NILL	NILL	NILL	NILL
13.3	Lighting Points:				
	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.				
13.3.1		15	NO.		
13.4	Lighting Fixtures:				
	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	12	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	3	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	NILL	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Bidia Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	<u>External Works</u>				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B '150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	NILL	M.S	NILL	NILL
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	NILL	M.S	NILL	NILL
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintainance for existing metal canopy . Price to include fix any damaged sheet, insolation for edges connected with building walls (metal sheet angles and special insolation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Bidia Elementary School For Girls**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS

Item	Description	Total NIS
Bill No. 1	Site preparation.	
Bill No. 2	Excavations, Backfilling and site works.	
Bill No. 3	Concrete Works.	
Bill No. 4	Stone Works.	
Bill No. 5	Block works.	
Bill No. 6	Plastering works.	
Bill No. 7	Tiling, Flooring and Marble works.	
Bill No. 8	Carpentry and Joinery Works.	
Bill No. 9	Steel and Aluminum Works.	
Bill No. 10	Painting Works.	
Bill No. 11	Insulation, Roofing and Expansion Joints.	
Bill No. 12	Mechanical Works.	
Bill No. 13	Electrical Works.	
Bill No. 14	External Works.	
Grand Total		

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<u>Demolition and Alterations Works :</u> General:- * all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas. * Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works. * It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works. * Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	LS		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	N/A			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
j	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	Included			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <ol style="list-style-type: none"> Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e. <ol style="list-style-type: none"> From Reduced Level when R. L. is lower than N. G. L. From N. G. L. when N. G. L. is lower than the Reduced Level. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.) Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer. <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School

Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). Price to include back filling with excavated suitable soil, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	NILL	M.C	NILL	NILL
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	6	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be: a-B200 ___ 250kg/m3 b-B250 ___ 300kg/m3 c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality</p> <p>control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be: a- From the center to center for external stone walls b- From the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam. (All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	NILL	M.C	NILL	NILL
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick for ramp .	6	M.S		
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.h=0.50 m , t= 0.20 m	2	M.C		
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General All Stone works shall be of local white stone of First Choice. Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval. Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.) Stones shall be homogeneous in color and texturing and free of any defects. Stone Specifications shall be as follows: • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed. All cuttings shall be made using Manjal. Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area. No measurement will be made for any recesses, projections or sides of stone pieces. Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladded columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications. No allowances shall be made for stone pieces in any shape. No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses. Rates of stone works shall include: - • Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. • Supplying, storing, protection and removal of rejected and surplus materials. • Shaping, cutting and fitting. • Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). • Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. • Erecting and dismantling of scaffoldings. • Pointing and pointing materials of any type, and cleaning of walls. • Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement.</p> <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as below: 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm2 Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications. Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area. No allowance for thickness used other than those shown in the drawings. Rates of Block works include: -</p> <ul style="list-style-type: none"> • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • R.C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	50	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	10	M.S		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	30	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	10	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	NILL	M.S	NILL	NILL
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls (external walls of bathrooms) and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	150	M.S		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<p><u>Tiling, Flooring And Marble Works</u></p> <p>General.</p> <p>1. All tilling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S.</p> <p>2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter.</p> <p>3. Marble works for window sills and other openings shall be measured in square meter.</p> <p>4. Parapet coping shall be measured in square meter.</p> <p>5. Rate shall include preparation of surfaces under tiles, Finnish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications.</p> <p>6. Terrazzo tiles mix shall not exceed 1:3.</p>				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	250	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	65	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	4	M.S		
B	Door's thresholds	4	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	5	M.S		
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	<p>Ditto as above but for Steps and Treads of Stairs.</p> <p>Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works.</p> <p>Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with groves front of the stair flight for low vision.</p> <p>Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.</p>	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>• Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>• Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>• Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>• Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Plugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Fly screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (80*217) cm. Door Type WD1	13	NO		
B	Structural opening size (110*217) cm. Door Type WD2	1	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<u>Steel And Aluminum Works</u> General Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item). Rates for metalwork shall include for: Preparing shop drawings, Drilling, counter sinking, screwing, bolting and riveting. Lugs, plugs, holdfasts and the like. Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames. Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave. Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting. Providing three keys for each lock and padlock including tagging and a master key for all doors. Hardware including cramps, dowels and the like. Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U" shape. Preparing surfaces for painting one coat of primer before fixing. Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges. All other accessories and incidentals required to execute the work.				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	12	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	12	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	5	M.R		
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	3	M.R		
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (100*217) cm. Door Type DS1	2	NO		
B	Structural opening size (80*217) cm. Door Type DS2	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<u>Painting Works</u> General Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted. The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.				
10.01	Supply and paint high quality emulsion paint (for corridor of male student WC) for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	50	M.S		
10.02	Supply and paint high quality oil paint (for corridor of male student WC) , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	50	M.S		
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	100	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	30	M.S		
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	30	M.S		
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	30	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <ol style="list-style-type: none"> 1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified. 2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions. 3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning. 4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter. 5- Water tanks shall be measured in number. 6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network. 7- Drains, Floor Traps, Clean outs and the like shall be measured in number. 8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances. 9- Vents and vertical stacks shall measured in linear meter. 10- Manhole, Gallies and the like shall be measured in number. 11- External sewers pipes shall be measured in linear meter for each individual diameter and material. 12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning. 13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications. 14- Insulation and painting as called for in specifications. 15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying. 16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover. 17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer. 18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning. 19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer. 20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works. 21-All mechanical Equipments must be from agent not broker. 22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly. 23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand. 24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches. 25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is is possible. 26- The contractor must test all existing water network and connect the fixtures to the network if it is possible. 27- Adjust all the installations of old fixture units to be suitable for the new fixture units. 28-Extension for all existing manholes to finish floor level. 				

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	11	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	6	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	17	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	6	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	1	N.O		
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	10	M.R		
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
FORWARDED TOTAL					
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	NILL	N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	NILL	N.O.E	NILL	NILL
	b. Size 1"	36	N.O.E		
	c. Size 1 1/4"	NILL	N.O.E	NILL	NILL
12.13	SUPPLY, INSTALL, TESTING AND COMMISIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	NILL	L.S	NILL	NILL
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
FORWARDED TOTAL					
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes' diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	NILL	N.O	NILL	NILL
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	2	N.O		
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	2	N.O		
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	2	N.O		
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	1	N.O		
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Sarta Elemntary School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness. Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	NILL	L.S	NILL	NILL
13.2	Sockets and outlets:				
	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.				
13.2.1	3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	3	NO.		
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	3	NO.		
13.2.4	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	NILL	NO.	NILL	NILL
13.3	Lighting Points:				
	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.				
13.3.1		24	NO.		
13.4	Lighting Fixtures:				
	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	16	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	5	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	3	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Sarta Elemntary School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	External Works				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B '150', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	NILL	M.S	NILL	NILL
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	NILL	M.S	NILL	NILL
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insulation for edges connected with building walls (metal sheet angles and special insulation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Sarta Elemntary School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS

Item	Description	Total
		NIS
Bill No. 1	Site preparation.	
Bill No. 2	Excavations, Backfilling and site works.	
Bill No. 3	Concrete Works.	
Bill No. 4	Stone Works.	
Bill No. 5	Block works.	
Bill No. 6	Plastering works.	
Bill No. 7	Tiling, Flooring and Marble works.	
Bill No. 8	Carpentry and Joinery Works.	
Bill No. 9	Steel and Aluminum Works.	
Bill No. 10	Painting Works.	
Bill No. 11	Insulation, Roofing and Expansion Joints.	
Bill No. 12	Mechanical Works.	
Bill No. 13	Electrical Works.	
Bill No. 14	External Works.	
Grand Total		

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<p><u>Demolition and Alterations Works :</u></p> <p>General:-</p> <p>* all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas.</p> <p>*Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works.</p> <p>* It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works.</p> <p>* Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...</p>				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	N/A			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
j	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	Included			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include:-</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School

Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). Price to include back filling with excavated suitable soil, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	NILL	M.C	NILL	NILL
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality</p> <p>control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a- from the center to center for external stone walls</p> <p>b- from the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam.</p> <p>(All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	NILL	M.C	NILL	NILL
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick for ramp .	NILL	M.S	NILL	NILL
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.	2	M.C		
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General All Stone works shall be of local white stone of First Choice. Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval. Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.) Stones shall be homogeneous in color and texturing and free of any defects. Stone Specifications shall be as follows: • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed. All cuttings shall be made using Manjal. Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area. No measurement will be made for any recesses, projections or sides of stone pieces. Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladde columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications. No allowances shall be made for stone pieces in any shape. No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses. Rates of stone works shall include: - - Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. - Supplying, storing, protection and removal of rejected and surplus materials. - Shaping, cutting and fitting. - Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). - Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. - Erecting and dismantling of scaffoldings. - Pointing and pointing materials of any type, and cleaning of walls. - Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement.</p> <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as bellow: 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm2 Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications. Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area. No allowance for thickness used other than those shown in the drawings. Rates of Block works include: - • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • R.C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings.</p> <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	10	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	40	M.S		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	15	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	20	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	50	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tiling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Base shall include preparation of surfaces under tiles, Finish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	50	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	17	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	1	M.S		
B	Door's thresholds	1	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	3	M.S		
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	Ditto as above but for Steps and Treads of Stairs . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with groves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>·Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>·Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>·Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>·Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a)Shop and coordinated drawings.</p> <p>b)Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c)Allowance for plastering and tiling and the like.</p> <p>d)Cutting and fitting around obstructions, Bedding and painting.</p> <p>e)Grounds, blocking and backings.</p> <p>f)Plugging concrete, block work, and stone work, and making well.</p> <p>g)Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h)Providing three keys for each lock including tagging.</p> <p>i)Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j)Steel legs, brackets, bearers and other supports including painting.</p> <p>k)Glass and glazing including cutting to size and putty.</p> <p>l)Fly screening including cutting to size.</p> <p>m)Preparing surfaces to receive finishes.</p> <p>n)Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification.</p> <p>Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (80*217) cm. Door Type WD1	2	NO		
B	Structural opening size (110*217) cm. Door Type WD2	1	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<p><u>Steel And Aluminum Works</u></p> <p>General</p> <p>Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item).</p> <p>Rates for metalwork shall include for:</p> <p>Preparing shop drawings,</p> <p>Drilling, counter sinking, screwing, bolting and riveting.</p> <p>Lugs, plugs, holdfasts and the like.</p> <p>Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames.</p> <p>Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave.</p> <p>Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting.</p> <p>Providing three keys for each lock and padlock including tagging and a master key for all doors.</p> <p>Hardware including cramps, dowels and the like.</p> <p>Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U "shape.</p> <p>Preparing surfaces for painting one coat of primer before fixing.</p> <p>Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges.</p> <p>All other accessories and incidentals required to execute the work.</p>				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	1	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	1	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	NILL	M.R	NILL	NILL
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	NILL	M.R	NILL	NILL
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (100*217) cm. Door Type DS1	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
9.08	Supply and install corrugated sandwich panels with a thickness of 5 cm for ceiling. the price include thermally painted of galvanized sheet (0.40 mm sheet thickness and 20 micron paint thickness) and the filling is made of compressed fire-resistant polyethylene with a density of not less than 40 kg / m3. The price includes necessary accessories and metal sheets at the corners, metal sheets for fixing, screws, according to the specifications, drawings, and instructions of the supervising engineer. price also include fixing painted steel structure beams needed	16	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<p><u>Painting Works</u></p> <p>General</p> <p>Painting and decorating to walls, ceilings and the like shall be measured net in meter square.</p> <p>Painting to other works shall be included in the related items. Color as specified by engineer.</p> <p>Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted.</p> <p>The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications.</p> <p>All paint types should be approved and having a supervision certificate from the PSI.</p>				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	20	M.S		
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	20	M.S		
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	30	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	32	M.S		
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	32	M.S		
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	15	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <p>•The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender.</p> <p>•The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work.</p> <p>•The contractor is requested to equally consider the following notes when quoting his prices:</p> <p>1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified.</p> <p>2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions.</p> <p>3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning.</p> <p>4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter.</p> <p>5- Water tanks shall be measured in number.</p> <p>6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network.</p> <p>7- Drains, Floor Traps, Clean outs and the like shall be measured in number.</p> <p>8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances.</p> <p>9- Vents and vertical stacks shall measured in linear meter.</p> <p>10- Manhole, Galleys and the like shall be measured in number.</p> <p>11- External sewers pipes shall be measured in linear meter for each individual diameter and material.</p> <p>12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning.</p> <p>13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications.</p> <p>14- Insulation and painting as called for in specifications.</p> <p>15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying.</p> <p>16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover.</p> <p>17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer.</p> <p>18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning.</p> <p>19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer.</p> <p>20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works.</p> <p>21-All mechanical Equipments must be from agent not broker.</p> <p>22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly.</p> <p>23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand.</p> <p>24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches.</p> <p>25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if it is possible.</p> <p>26- The contractor must test all existing water network and connect the fixtures to the network if it is possible.</p> <p>27- Adjust all the installations of old fixture units to be suitable for the new fixture units.</p> <p>28-Extension for all existing manholes to finish floor level.</p>				

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	1	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	1	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	2	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	NILL	N.O	NILL	NILL
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	2	N.O		
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	8	M.R		
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	1	N.O		
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	2	N.O.E		
	b. Size 1"	7	N.O.E		
	c. Size 1 1/4"	NILL	N.O.E	NILL	NILL
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	1	L.S		
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
FORWARDED TOTAL					
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes’ diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	NILL	N.O	NILL	NILL
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.01	Sub-distribution boards				
13.1.1	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness(WATER PROOF). Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications. DB-B	NILL	L.S	NILL	NILL
13.2	Sockets and outlets:				
13.2.1	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.				
13.2.1	3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	2	NO.		
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	2	NO.		
13.2.4	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	1	NO.		
13.3	Lighting Points:				
13.3.1	Supply, Install and Connect Lighting Points including PVC pipe for external work and (3×1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.	3	NO.		
13.4	Lighting Fixtures:				
13.4.1	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	1	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	2	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	NILL	NO.	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	External Works				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to Include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B '150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	NILL	M.S	NILL	NILL
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2" as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	12	M.S		
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insulation for edges connected with building walls (metal sheet angles and special insulation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coats of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel structure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Mughayir Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total NIS			
Bill No. 1	Site preparation.				
Bill No. 2	Excavations, Backfilling and site works.				
Bill No. 3	Concrete Works.				
Bill No. 4	Stone Works.				
Bill No. 5	Block works.				
Bill No. 6	Plastering works.				
Bill No. 7	Tiling, Flooring and Marble works.				
Bill No. 8	Carpentry and Joinery Works.				
Bill No. 9	Steel and Aluminum Works.				
Bill No. 10	Painting Works.				
Bill No. 11	Insulation, Roofing and Expansion Joints.				
Bill No. 12	Mechanical Works.				
Bill No. 13	Electrical Works.				
Bill No. 14	External Works.				
Grand Total					

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<p><u>Demolition and Alterations Works :</u></p> <p>General:-</p> <p>* all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas.</p> <p>*Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works.</p> <p>* It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works.</p> <p>* Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...</p>				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	N/A			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
J	Removing and reinstall metal ceiling and shaded area.	Included			
K	Removing hand rail, corridor steel protection.	Included			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

[illegible]

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality</p> <p>control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a- from the center to center for external stone walls</p> <p>b- from the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam.</p> <p>(All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.C	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 300' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 300' for Ground beams . Price to include isolation.	NILL	M.C	NILL	NILL
3.04	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade . (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.C	NILL	NILL
3.07	Ditto to above but smooth slab on grade 10 cm thick for ramp and where needed .	NILL	M.C	NILL	NILL
3.08	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced walls above Ground Slab for ramp Level.	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B300' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B300' fair face for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.h=0.50 m, T=0.20 m	3	M.C		
3.12	Supply and Cast Reinforced Concrete Grade 'B 300' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Manjal.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladded columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> - Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. - Supplying, storing, protection and removal of rejected and surplus materials. - Shaping, cutting and fitting. - Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). - Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. - Erecting and dismantling of scaffoldings. - Pointing and pointing materials of any type, and cleaning of walls. - Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as bellow:</p> <ul style="list-style-type: none"> 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value):0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression):0.15-0.20N/mm2 <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications. Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area. No allowance for thickness used other than those shown in the drawings. Rates of Block works include: -</p> <ul style="list-style-type: none"> • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • C. Door jambs for classroom doors as per detailed drawings • Intels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	10	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	NILL	M.S	NILL	NILL
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	10	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	10	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	80	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tiling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Rate shall include preparation of surfaces under tiles, Finish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	110	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	30	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	2	M.S		
B	Door's thresholds	2	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	9	M.S		
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	Ditto as above but for Steps and Treads of Stairs for main entrance . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>·MWooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>·MWriting boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>·MWall protection wooden rubbing rails shall be measured in linear meter.</p> <p>·Eloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Brounds, blocking and backings.</p> <p>f) Plugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Ey screening including cutting to size.</p> <p>m) Reparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (70*217) cm. Door Type WD1	6	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<u>Steel And Aluminum Works</u> General Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item). Rates for metalwork shall include for: Preparing shop drawings, Drilling, counter sinking, screwing, bolting and riveting. Lugs, plugs, holdfasts and the like. Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames. Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave. Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting. Providing three keys for each lock and padlock including tagging and a master key for all doors. Hardware including cramps, dowels and the like. Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U" shape. Preparing surfaces for painting one coat of primer before fixing. Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges. All other accessories and incidentals required to execute the work.				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	3	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	3	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 4 cm and 2.5 cm diameter hollow steel pipes. Price to include Fixing complete, oil paint three coats in addition to primer coat.	NILL	M.R	NILL	NILL
B	Grab bars of 4 cm diameter with plates. hollowsteel pipes, parallel and fixed to walls.	NILL	M.R	NILL	NILL
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (90*217) cm. Door Type DS1	1	NO		
B	Structural opening size (110*217) cm. Door Type DS2	2	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Next Page				NIS	
	Forwarded total				
9.06	Supply and install false ceiling (60*60 or gypsum board): 1- aluminum bars (Z+L) shape (ARMISTRON) or equivalent and tiles (60*60*1.5) cm fire rated 2 hours. 2- fixing with galvanized strips, green gypsum boards 12.5mm for ceilings where needed and determine. price include painting green gypsum boards one priming coat and two finishing coats emulsion paint, using two coats of complete putty and all necessary works to complete the job as per specifications. Price also includes maintenance openings where needed and determine in shop drawings according the supervisor approved. The area calculated for projected area only.	20	M.S		
9.07	Supply and install corrugated sandwich panels with a thickness of 5 cm for ceiling. the price include thermally painted of galvanized sheet (0.40 mm sheet thickness and 20 micron paint thickness) and the filling is made of compressed fire-resistant polyethylene with a density of not less than 40 kg / m3. The price includes necessary accessories and metal sheets at the corners, metal sheets for fixing, screws, according to the specifications, drawings, and instructions of the supervising engineer. price also include painted steel beams needed according to drawings and details.	35	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<p><u>Painting Works</u></p> <p>General Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted. The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.</p>				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	50	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	30	M.S		
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	30	M.S		
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <p>1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified.</p> <p>2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions.</p> <p>3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning.</p> <p>4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter.</p> <p>5- Water tanks shall be measured in number.</p> <p>6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network.</p> <p>7- Drains, Floor Traps, Clean outs and the like shall be measured in number.</p> <p>8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances.</p> <p>9- Vents and vertical stacks shall measured in linear meter.</p> <p>10- Manhole, Galleys and the like shall be measured in number.</p> <p>11- External sewers pipes shall be measured in linear meter for each individual diameter and material.</p> <p>12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning.</p> <p>13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications.</p> <p>14- Insulation and painting as called for in specifications.</p> <p>15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying.</p> <p>16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover.</p> <p>17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer.</p> <p>18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning.</p> <p>19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer.</p> <p>20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works.</p> <p>21- All mechanical Equipments must be from agent not broker.</p> <p>22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly.</p> <p>23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand.</p> <p>24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches.</p> <p>25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is is possible.</p> <p>26- The contractor must test all existing water network and connect the fixtures to the network if it is possible.</p> <p>27- Adjust all the installations of old fixture units to be suitable for the new fixture units.</p> <p>28- Extension for all existing manholes to finish floor level.</p>				

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	6	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	3	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	8	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	1	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	NILL	N.O	NILL	NILL
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	NILL	M.R	NILL	NILL
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	NILL	N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	3	N.O.E		
	b. Size 1"	15	N.O.E		
	c. Size 1 1/4"	NILL	N.O.E	NILL	NILL
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	NILL	L.S	NILL	NILL
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes’ diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	NILL	N.O	NILL	NILL
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Haifa Elementary School For Girls**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness(water proof). Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	1	L.S		
13.2	Sockets and outlets:				
	Supply, install, numbering and Connect the following Socket Outlets points including (3×2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.				
13.2.1	3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	2	NO.		
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	NILL	NO.	NILL	NILL
13.2.4	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	NILL	NO.	NILL	NILL
13.3	Lighting Points:				
13.3.1	Supply, Install and Connect Lighting Points including Conduits,PVC pipe for external work and (3×1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.	27	NO.		
13.4	Lighting Fixtures:				
	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	13	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	3	NO.		
13.4.3	40W LED, 4000K, 4000lm Recessed mounted 60x60 led slim panel with all accessories and driver lighting Fixture,CRI>80, with PMMA Diffuser , Aluminum housing, , IP20, IK02,30000 Hours	6	NO.		
13.4.4	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	2	NO.		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Haifa Elementary School For Girls
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	<u>External Works</u>				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B ' 150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	45	M.S		
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.H=1.50 m	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	NILL	M.S	NILL	NILL
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintainance for existing metal canopy . Price to include fix any damaged sheet, insolation for edges connected with building walls (metal sheet angles and special insolation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Haifa Elementary School For Girls**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS

Item	Description	Total
		NIS
Bill No. 1	Site preparation.	
Bill No. 2	Excavations, Backfilling and site works.	
Bill No. 3	Concrete Works.	
Bill No. 4	Stone Works.	
Bill No. 5	Block works.	
Bill No. 6	Plastering works.	
Bill No. 7	Tiling, Flooring and Marble works.	
Bill No. 8	Carpentry and Joinery Works.	
Bill No. 9	Steel and Aluminum Works.	
Bill No. 10	Painting Works.	
Bill No. 11	Insulation, Roofing and Expansion Joints.	
Bill No. 12	Mechanical Works.	
Bill No. 13	Electrical Works.	
Bill No. 14	External Works.	
Grand Total		

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<p><u>Demolition and Alterations Works :</u></p> <p>General:-</p> <p>* all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas.</p> <p>*Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works.</p> <p>* It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works.</p> <p>* Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...</p>				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	Included			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
J	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	Included			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). Price to include back filling with excavated suitable soil, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	NILL	M.C	NILL	NILL
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality</p> <p>control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a- From the center to center for external stone walls</p> <p>b- From the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam.</p> <p>(All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	NILL	M.C	NILL	NILL
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick for ramp .	NILL	M.S	NILL	NILL
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.	NILL	M.C	NILL	NILL
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Manjal.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladded columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> · Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. · Supplying, storing, protection and removal of rejected and surplus materials. · Shaping, cutting and fitting. · Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). · Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. · Erecting and dismantling of scaffoldings. · Pointing and pointing materials of any type, and cleaning of walls. · Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as follow:</p> <ol style="list-style-type: none"> 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm2 <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General</p> <p>All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications.</p> <p>Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area.</p> <p>No allowance for thickness used other than those shown in the drawings.</p> <p>Rates of Block works include: -</p> <ul style="list-style-type: none"> • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • R.C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	65	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	30	M.S		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	60	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	10	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	60	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tilling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Base shall include preparation of surfaces under tiles, Finish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	210	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	55	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	4	M.S		
B	Door's thresholds	4	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	NILL	M.S	NILL	NILL
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	Ditto as above but for Steps and Treads of Stairs . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Lugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Fly screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (80*217) cm. Door Type WD1	10	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<p><u>Steel And Aluminum Works</u></p> <p>General</p> <p>Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item).</p> <p>Rates for metalwork shall include for:</p> <p>Preparing shop drawings,</p> <p>Drilling, counter sinking, screwing, bolting and riveting.</p> <p>Lugs, plugs, holdfasts and the like.</p> <p>Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames.</p> <p>Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave.</p> <p>Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting.</p> <p>Providing three keys for each lock and padlock including tagging and a master key for all doors.</p> <p>Hardware including cramps, dowels and the like.</p> <p>Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U" shape.</p> <p>Preparing surfaces for painting one coat of primer before fixing.</p> <p>Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges.</p> <p>All other accessories and incidentals required to execute the work.</p>				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	NILL	M.S	NILL	NILL
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	4	M.S		
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	4	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	NILL	M.R	NILL	NILL
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	NILL	M.R	NILL	NILL
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (100*217) cm. Door Type DS1	1	NO		
B	Structural opening size (110*217) cm. Door Type DS2	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	1	NO		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<p><u>Painting Works</u></p> <p>General Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted. The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.</p>				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	20	M.S		
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	20	M.S		
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	120	M.S		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	NILL	M.S	NILL	NILL
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <ol style="list-style-type: none"> 1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified. 2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions. 3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning. 4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter. 5- Water tanks shall be measured in number. 6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network. <ol style="list-style-type: none"> 7- Drains, Floor Traps, Clean outs and the like shall be measured in number. 8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances. 9- Vents and vertical stacks shall measured in linear meter. 10- Manhole, Galleys and the like shall be measured in number. 11- External sewers pipes shall be measured in linear meter for each individual diameter and material. 12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning. 13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications. 14- Insulation and painting as called for in specifications. 15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying. 16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover. 17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer. <ol style="list-style-type: none"> 18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning. 19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer. 20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works. 21-All mechanical Equipments must be from agent not broker. 22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly. 23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand. 24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches. 25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is is possible. 26- The contractor must test all existing water network and connect the fixtures to the network if it is possible. 27- Adjust all the installations of old fixture units to be suitable for the new fixture units. 28-Extension for all existing manholes to finish floor level. 				

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	10	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	6	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	15	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	3	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	NILL	N.O	NILL	NILL
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	NILL	M.R	NILL	NILL
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	0

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				0
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	NILL	N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	NILL	N.O.E	NILL	NILL
	b. Size 1"	23	N.O.E		
	c. Size 1 1/4"	NILL	N.O.E	NILL	NILL
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	1	L.S		
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes' diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	1	N.O		
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness. (water proof) Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	1	L.S		
13.2	Sockets and outlets:				
	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm ²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.				
13.2.1	3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	3	NO.		
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	1	NO.		
13.2.4	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm ²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	NILL	NO.	NILL	NILL
13.3	Lighting Points:				
	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm ²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.				
13.3.1		19	NO.		
13.4	Lighting Fixtures:				
	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	15	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	3	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	1	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Fadiliya Secondary Boys School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	External Works				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to Include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B ' 150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	25	M.S		
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	NILL	M.S	NILL	NILL
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insolation for edges connected with building walls (metal sheet angles and special insolation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Al Fadiliya Secondary Boys School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total NIS			
Bill No. 1	Site preparation.				
Bill No. 2	Excavations, Backfilling and site works.				
Bill No. 3	Concrete Works.				
Bill No. 4	Stone Works.				
Bill No. 5	Block works.				
Bill No. 6	Plastering works.				
Bill No. 7	Tiling, Flooring and Marble works.				
Bill No. 8	Carpentry and Joinery Works.				
Bill No. 9	Steel and Aluminum Works.				
Bill No. 10	Painting Works.				
Bill No. 11	Insulation, Roofing and Expansion Joints.				
Bill No. 12	Mechanical Works.				
Bill No. 13	Electrical Works.				
Bill No. 14	External Works.				
Grand Total					

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<u>Demolition and Alterations Works :</u> General:- * all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas. *Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works. * It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works. * Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	N/A			
G	New doors and windows openings.	N/A			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
J	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	N/A			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <ol style="list-style-type: none"> Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e. <ol style="list-style-type: none"> From Reduced Level when R. L. is lower than N. G. L. From N. G. L. when N. G. L. is lower than the Reduced Level. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.) Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer. <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School

Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). Price to include back filling with excavated suitable soil, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	NILL	M.C	NILL	NILL
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. Incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a- from the center to center for external stone walls</p> <p>b- from the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam.</p> <p>(All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	NILL	M.C	NILL	NILL
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick for ramp .	NILL	M.S	NILL	NILL
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.	NILL	M.C	NILL	NILL
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Manjal.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladde columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> · Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. · Supplying, storing, protection and removal of rejected and surplus materials. · Shaping, cutting and fitting. · Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). · Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. · Erecting and dismantling of scaffoldings. · Pointing and pointing materials of any type, and cleaning of walls. · Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as bellow:</p> <ol style="list-style-type: none"> 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm2 <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General</p> <p>All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications.</p> <p>Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area.</p> <p>No allowance for thickness used other than those shown in the drawings.</p> <p>Rates of Block works include: -</p> <ul style="list-style-type: none"> • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • R.C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	50	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	NILL	M.S	NILL	NILL
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	10	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	10	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	30	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tiling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Rate shall include preparation of surfaces under tiles, Finnish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	190	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	50	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	3	M.S		
B	Door's thresholds	3	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	3	M.S		
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	Ditto as above but for Steps and Treads of Stairs . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Lugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Ply screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (70*217) cm. Door Type WD1	10	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<p><u>Steel And Aluminum Works</u></p> <p>General</p> <p>Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item).</p> <p>Rates for metalwork shall include for:</p> <p>Preparing shop drawings,</p> <p>Drilling, counter sinking, screwing, bolting and riveting.</p> <p>Lugs, plugs, holdfasts and the like.</p> <p>Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames.</p> <p>Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave.</p> <p>Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting.</p> <p>Providing three keys for each lock and padlock including tagging and a master key for all doors.</p> <p>Hardware including cramps, dowels and the like.</p> <p>Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U "shape.</p> <p>Preparing surfaces for painting one coat of primer before fixing.</p> <p>Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges.</p> <p>All other accessories and incidentals required to execute the work.</p>				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	7	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	7	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	NILL	M.R	NILL	NILL
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	NILL	M.R	NILL	NILL
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (100*217) cm. Door Type DS1	2	NO		
B	Structural opening size (110*217) cm. Door Type DS2	1	NO		
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<p><u>Painting Works</u></p> <p>General</p> <p>Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted.</p> <p>The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.</p>				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	80	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only. Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	6	M.S		
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	6	M.S		
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	25	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <p>1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified.</p> <p>2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions.</p> <p>3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning.</p> <p>4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter.</p> <p>5- Water tanks shall be measured in number.</p> <p>6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network.</p> <p>7- Drains, Floor Traps, Clean outs and the like shall be measured in number.</p> <p>8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances.</p> <p>9- Vents and vertical stacks shall measured in linear meter.</p> <p>10- Manhole, Gallies and the like shall be measured in number.</p> <p>11- External sewers pipes shall be measured in linear meter for each individual diameter and material.</p> <p>12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning.</p> <p>13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications.</p> <p>14- Insulation and painting as called for in specifications.</p> <p>15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying.</p> <p>16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover.</p> <p>17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer.</p> <p>18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning.</p> <p>19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer.</p> <p>20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works.</p> <p>21-All mechanical Equipments must be from agent not broker.</p> <p>22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly.</p> <p>23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand.</p> <p>24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches.</p> <p>25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is is possible.</p> <p>26- The contractor must test all existing water network and connect the fixtures to the network if it is possible.</p> <p>27- Adjust all the installations of old fixture units to be suitable for the new fixture units.</p> <p>28-Extension for all existing manholes to finish floor level.</p>				

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	10	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	6	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	13	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	2	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	1	N.O		
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	5	M.R		
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	1	N.O		
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	NILL	N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	3	N.O.E		
	b. Size 1"	26	N.O.E		
	c. Size 1 1/4"	NILL	N.O.E	NILL	NILL
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	NILL	L.S	NILL	NILL
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	1	L.S		
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	1	L.S		
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes’ diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	NILL	N.O	NILL	NILL
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	2	N.O		
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	2	N.O		
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness(water proof). Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	NILL	L.S	NILL	NILL
13.2	Sockets and outlets:				
	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.				
13.2.1	3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	2	NO.		
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	2	NO.		
13.2.4	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	NILL	NO.	NILL	NILL
13.3	Lighting Points:				
13.3.1	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.	19	NO.		
13.4	Lighting Fixtures:				
	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	14	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	3	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	2	NO.		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Beit Sahour Secondary Girls School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	<u>External Works</u>				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to Include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B '150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	NILL	M.S	NILL	NILL
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	NILL	M.S	NILL	NILL
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insulation for edges connected with building walls (metal sheet angles and special insulation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Beit Sahour Secondary Girls School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
Item	Description	Total NIS			
Bill No. 1	Site preparation.				
Bill No. 2	Excavations, Backfilling and site works.				
Bill No. 3	Concrete Works.				
Bill No. 4	Stone Works.				
Bill No. 5	Block works.				
Bill No. 6	Plastering works.				
Bill No. 7	Tiling, Flooring and Marble works.				
Bill No. 8	Carpentry and Joinery Works.				
Bill No. 9	Steel and Aluminum Works.				
Bill No. 10	Painting Works.				
Bill No. 11	Insulation, Roofing and Expansion Joints.				
Bill No. 12	Mechanical Works.				
Bill No. 13	Electrical Works.				
Bill No. 14	External Works.				
Grand Total					

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<p><u>Demolition and Alterations Works :</u></p> <p>General:-</p> <p>* all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas.</p> <p>*Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works.</p> <p>* It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earliest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works.</p> <p>* Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...</p>				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	Included			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp (where needed) .	Included			
F	Removing existing drinking fountain.	N/A			
G	New doors and windows openings.	Included			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	N/A			
J	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	Included			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). Price to include back filling with excavated suitable soil, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	NILL	M.C	NILL	NILL
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <ol style="list-style-type: none"> 1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing. 2. Supplying, Casting, vibrating and curing as per specifications. 3. Approved additives and admixtures. 4. In curred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops. 5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules 6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts). 7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety. <ol style="list-style-type: none"> 8. The minimum cement contents for concrete should be: <ul style="list-style-type: none"> a-B200 ___ 250kg/m3 b-B250 ___ 300kg/m3 c-B300 ___ 350kg/m3 9. Testing specimens for concrete quality control during construction shall be cubes of size 15x15x15 cm. <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <ul style="list-style-type: none"> a-From from the center to center for external stone walls b-From from the external to the external face of the outer drop beams for stone cladding walls <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam.</p> <p>(All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	NILL	M.C	NILL	NILL
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade . (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick for ramp where needed .	15	M.S		
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 1Ø8mm/20cm in both directions.	NILL	M.C	NILL	NILL
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m3) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Manjal.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladded columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> · Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. · Supplying, storing, protection and removal of rejected and surplus materials. · Shaping, cutting and fitting. · Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). · Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. · Erecting and dismantling of scaffoldings. · Pointing and pointing materials of any type, and cleaning of walls. · Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as below:</p> <ol style="list-style-type: none"> 1- Density: 28-35Kg/m3. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm2 <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets ... etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General</p> <p>All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications.</p> <p>Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area.</p> <p>No allowance for thickness used other than those shown in the drawings.</p> <p>Rates of Block works include: -</p> <ul style="list-style-type: none"> • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • R.C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	10	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	25	M.S		
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	20	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	30	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	170	M.S		
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tiling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Base shall include preparation of surfaces under tiles, Finish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	200	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	55	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	3	M.S		
B	Door's thresholds	3	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	NILL	M.S	NILL	NILL
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	Ditto as above but for Steps and Treads of Stairs . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Plugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Fly screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	<p>Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.</p>				
A	Structural opening size (70*212) cm. Door Type WD1	12	NO		
8.02	<p>Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.</p>	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<p><u>Steel And Aluminum Works</u></p> <p>General</p> <p>Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item).</p> <p>Rates for metalwork shall include for:</p> <p>Preparing shop drawings,</p> <p>Drilling, counter sinking, screwing, bolting and riveting.</p> <p>Lugs, plugs, holdfasts and the like.</p> <p>Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames.</p> <p>Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave.</p> <p>Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting.</p> <p>Providing three keys for each lock and padlock including tagging and a master key for all doors.</p> <p>Hardware including cramps, dowels and the like.</p> <p>Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U" shape.</p> <p>Preparing surfaces for painting one coat of primer before fixing.</p> <p>Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges.</p> <p>All other accessories and incidentals required to execute the work.</p>				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	6	M.S		
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	6	M.S		
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	12	M.R		
B	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	12	M.R		
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (80*212) cm. Door Type DS1	4	NO		
B	Structural opening size (110*217) cm. Door Type DS2	1	NO		
9.06	Supply and install corrugated sandwich panels with a thickness of 5 cm for ceiling. the price include thermally painted of galvanized sheet (0.40 mm sheet thickness and 20 micron paint thickness) and the filling is made of compressed fire-resistant polyethylene with a density of not less than 40 kg / m3. The price includes necessary accessories and metal sheets at the corners, metal sheets for fixing, screws, according to the specifications, drawings, and instructions of the supervising engineer. price also include fixing painted steel structure beams needed	13	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<p><u>Painting Works</u></p> <p>General Painting and decorating to walls, ceilings and the like shall be measured net in meter square. Painting to other works shall be included in the related items. Color as specified by engineer. Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted. The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications. All paint types should be approved and having a supervision certificate from the PSI.</p>				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	150	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	NILL	M.S	NILL	NILL
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	16	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <ol style="list-style-type: none"> 1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified. 2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions. 3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning. 4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter. 5- Water tanks shall be measured in number. 6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network. <ol style="list-style-type: none"> 7- Drains, Floor Traps, Clean outs and the like shall be measured in number. 8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances. 9- Vents and vertical stacks shall measured in linear meter. 10- Manhole, Galleys and the like shall be measured in number. 11- External sewers pipes shall be measured in linear meter for each individual diameter and material. 12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning. 13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications. 14- Insulation and painting as called for in specifications. 15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying. 16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover. 17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer. <ol style="list-style-type: none"> 18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning. 19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer. 20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works. 21-All mechanical Equipments must be from agent not broker. 22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly. 23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand. 24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches. 25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is is possible. 26- The contractor must test all existing water network and connect the fixtures to the network if it is possible. 27- Adjust all the installations of old fixture units to be suitable for the new fixture units. 28-Extension for all existing manholes to finish floor level. 				

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	7	N.O		
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	5	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	1	N.O		
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	7	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	1	N.O		
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	10	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	4	N.O		
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	NILL	N.O	NILL	NILL
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	NILL	M.R	NILL	NILL
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	1	N.O		
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size ¾"	6	N.O.E		
	b. Size 1"	8	N.O.E		
	c. Size 1 1/4"	23	N.O.E		
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	NILL	L.S	NILL	NILL
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes' diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	13	N.O		
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness. (water proof) Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	1	L.S		
13.2	Sockets and outlets:				
	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.				
13.2.1	3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	5	NO.		
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	2	NO.		
13.2.4	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	1	NO.		
13.3	Lighting Points:				
	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.				
13.3.1		25	NO.		
13.4	Lighting Fixtures:				
	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	15	NO.		
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	6	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	4	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Al Farouq Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	External Works				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to Include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B ' 150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	45	M.S		
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy for entrance shaded area (for Entrance and Canteen) made of elastic polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. (See AD) Measurements only for Horizontal dimensions of the Canopy only.	NILL	M.S	NILL	NILL
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintenance for existing metal canopy . Price to include fix any damaged sheet, insolation for edges connected with building walls (metal sheet angles and special insolation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Al Farouq Mixed School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS

Item	Description	Total
		NIS
Bill No. 1	Site preparation.	
Bill No. 2	Excavations, Backfilling and site works.	
Bill No. 3	Concrete Works.	
Bill No. 4	Stone Works.	
Bill No. 5	Block works.	
Bill No. 6	Plastering works.	
Bill No. 7	Tiling, Flooring and Marble works.	
Bill No. 8	Carpentry and Joinery Works.	
Bill No. 9	Steel and Aluminum Works.	
Bill No. 10	Painting Works.	
Bill No. 11	Insulation, Roofing and Expansion Joints.	
Bill No. 12	Mechanical Works.	
Bill No. 13	Electrical Works.	
Bill No. 14	External Works.	
Grand Total		

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
1	<p><u>Demolition and Alterations Works :</u></p> <p>General:-</p> <p>* all safety equipment, hard hats, gloves and steel toe shoes for all individuals working in demolition. Water piping to suppress dust. Contractor to provide a safety plan and location of safe passages around construction areas.</p> <p>*Contractor to provide the Engineer with a specific method statement including detailed drawings, documented photographs, and time plan for demolition works. Contractor to verify each element as a nonstructural and nonbearing wall/element before any demolition works.</p> <p>* It is understood that demolition works will often encounter unforeseen elements. Contractor to bring such findings to the attention of Supervision at the earnest. Contractor to get Supervision's approval for demolition method and equipment prior to any demolition works, as well as an accurate time frame for the said demolition works.</p> <p>* Demolition and removal of all items as described on the Demolition Plan and as specified above. Demolition shall not be limited to items listed below. Any unforeseen elements in the way of new construction plan should be brought to the attention of Supervising Engineer. In addition and any electrical / plumbing/ services in external works as well, including poles, cables, etc...</p>				
1.01	Carefully demolish and remove away from site all according to Architectural design, and all necessary works and preparation of site to receive a new works, all in accordance with engineer approvals and drawings. The price include: -	1	L.S		
A	Removing block and concrete partitions and walls.	N/A			
B	Removing wall and floor tiles (internal and external) and existing fill.	Included			
C	Removing steel, wooden doors.	Included			
D	Removing windows and its steel protection and marble sills.	Included			
E	Removing existing ramp .	N/A			
F	Removing existing drinking fountain.	N/A			
G	New doors and windows openings.	N/A			
H	Confirm the dimensions of the existing doors and windows with the new dimensions.	Included			
I	Removing and reinstall kinder garden toys.	Included			
J	Removing metal ceiling.	N/A			
K	Removing hand rail, corridor steel protection.	N/A			
L	Removing mechanical and electrical parts and reinstall the required in WC and roof.	Included			
M	Removing existing membrane rolls on roof of WC	N/A			
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2	<p><u>Excavation, Back Filling And Site Works.</u></p> <p>General.</p> <p>1. Excavation for foundation, trenches. Etc. shall be the actual dimensions shown on Drawings including blinding area, and to be measured from Natural Ground Level or Reduced Level (which is lower), i.e.</p> <p>1. From Reduced Level when R. L. is lower than N. G. L.</p> <p>2. From N. G. L. when N. G. L. is lower than the Reduced Level.</p> <p>2. Allowance for working space is not applicable, unless it is clearly specified in the Special Conditions.</p> <p>3. Excavation for foundation of retaining walls is to be measured from Lower Reduced level, or from lower Natural Ground level (as stated in Item 1 above.)</p> <p>4. Price to include removal of site obstacles, rocks, trees and all debris from site, including any necessary rerouting of infrastructure works, such as piping, conduits, etc. Price also to include maintaining all trees that are not obstructing the buildings, boundary walls, courts and roads.</p> <p>5. Each layer of back filling shall be tested separately, on the contractor's expense, prior to applying the next Layer.</p> <p>6. Co-ordination with all local authorities to facilitate the works, removal of obstacles or for diversion of roads, Services, etc. is the contractor's responsibility and are deemed to be included in his rates.</p> <p>Excavated soil shall be classified and retained, to back fill with suitable fill material and to place agricultural soil as where needed as shown in the drawings and as instructed by the Engineer. The extra and unsuitable soil shall be removed, on the contractor's expense with no extra cost.</p> <p>8. Prior to commencement of site leveling or any excavation, the Contractor shall obtain Engineer's written approval on the contour grid of 5m x5m map, checked jointly by the contractor and the Engineer, the excavation profiles and sections showing all levels and dimensions, and the calculations of excavation quantities.</p> <p>Excavation shall be in Cubic Volume, the net measurements of the excavated elements as shown in the Drawings, no allowance shall be made for increase in bulk after excavation.</p> <p>Rate of Excavation shall include: -</p> <p>Excavation to any depth, in any shape, in any type of soil,</p> <p>Leveling, ramming, trimming and grading excavation bottoms.</p> <p>Planking and strutting.</p> <p>Cost of lab. Tests of works and materials.</p>				

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
2.01	Excavation For Foundation and Ground Beams. Cut in any kind of soil, concrete, or asphalt; from NGL to the required Levels (blinding level). Price to include back filling with excavated suitable soil, or imported approved materials if needed, removal of extra soil, debris, and organic materials to the approved sites specified by authorities. Back filling material shall be applied on layers, 200 mm thick, watered and compacted to min 95% according to modified AASHTO Density Test T-80. Price to include filling cavities and wells with suitable materials.	NILL	M.C	NILL	NILL
2.02	Supply Well Compact Base Coarse layer average 20 cm Thick where needed. Price includes leveling, watering, compacting to 100%, leveling and compacting of ground (sub-base) under base coarse to min 98% according to Field Density Test.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3	<p><u>CONCRETE WORKS</u></p> <p>General</p> <p>Rates of Concrete Works shall include: -</p> <p>1. All form works and shuttering in any form, shape and size. Making chamfered and curved edges, allowing for and making grooves and sleeves and the like; removal of forms and cleaning of all exposed tie wires and rods; making good the harmed surfaces and edges and all surface finishing.</p> <p>2. Supplying, Casting, vibrating and curing as per specifications.</p> <p>3. Approved additives and admixtures.</p> <p>4. In incurred costs on Concrete Mix Designs, Sample taking, testing and providing test results certificates, storing and saving of samples, and preparation of bar bending schedules and workshops.</p> <p>5. Supplying reinforcement of any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules</p> <p>6. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint or special cold bitumen (75/25), the strokes of each layer to be opposite to each other (for the buried parts).</p> <p>7. Steel bars used for alignment and fixing of reinforcement works, and extra steel added to assure proper detailing and safety.</p> <p>8. The minimum cement contents for concrete should be:</p> <p>a-B200 ___ 250kg/m3</p> <p>b-B250 ___ 300kg/m3</p> <p>c-B300 ___ 350kg/m3</p> <p>9. Testing specimens for concrete quality</p> <p>control during construction shall be cubes of size 15x15x15 cm.</p> <p>Measurement of Concrete elements shall be the net dimensions as detailed in the drawings. All recesses openings and voids shall be deducted.</p> <p>Measurement shall be only for the seen surfaces of elements. Overlapping and measuring items twice under separate headings shall not be allowed.</p> <p>Slabs measurement should be:</p> <p>a- from the center to center for external stone walls</p> <p>b- from the external to the external face of the outer drop beams for stone cladding walls</p> <p>The columns necks shall be measured from the top level of the foundation or footing to the bottom level of the tie beam.</p> <p>(All beams, drop beams, projection including sun breakers and any part casted together with the slab shall not be measured and is deemed to be included in the price of the slab). Columns are to be measured from the top level of the slab to the bottom level of the beam or dropped beam.</p>				

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
3.01	Supply and Cast Plain Concrete for Blinding Concrete B200 under foundations, footings & tie beams. Thickness should be 10cm.	NILL	M.S	NILL	NILL
3.02	Supply and Cast Reinforced Concrete Grade 'B 350' for Foundations . Price to include isolation for foundations.	NILL	M.C	NILL	NILL
3.03	Supply and Cast Reinforced Concrete Grade 'B 350' for Ground beams . Price to include isolation.	NILL	M.C	NILL	NILL
3.04	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls below Ground Slab Level . Price to include isolation.	NILL	M.C	NILL	NILL
3.05	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns necks . Price to include isolation.	NILL	M.C	NILL	NILL
3.06	Supply and Cast Reinforced Concrete Grade 'B 250'. For Slab on Grade. (10) cm. thick Including surface leveling, finishing, polyethylene sheets 125-micron, construction joints and steel reinforcement overlapped to tie beams, and all related works. (Measured for projected area).	NILL	M.S	NILL	NILL
3.07	Ditto to above but slab on grade 10 cm thick for ramp .	NILL	M.S	NILL	NILL
3.08	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced walls above Ground Slab Level .	NILL	M.C	NILL	NILL
3.09	Supply and Cast Reinforced Concrete Grade 'B350' Reinforced Columns to hidden or drop beams level.	NILL	M.C	NILL	NILL
3.10	Supply and Cast Reinforced Concrete Grade 'B350' for Stairs , landings, flighting's and its beams in building.	NILL	M.C	NILL	NILL
3.11	Supply and Cast Reinforced Concrete for parapet , R. Concrete B200. Price includes reinforcement of 108mm/20cm in both directions.	NILL	M.C	NILL	NILL
3.12	Supply and Cast Reinforced Concrete Grade 'B 350' for 20 cm thick solid slab . Price to include drop, inverted and hidden beams as per drawing.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4	<p><u>Stone Works</u></p> <p>General</p> <p>All Stone works shall be of local white stone of First Choice.</p> <p>Stone material, size, and texturing shall be in accordance with detailed drawings and Engineer's instructions and approval.</p> <p>Stones shall be of not less than (5 cm. thick, 25 cm. high and of length ranging from 1.5 to 3 times the height.)</p> <p>Stones shall be homogeneous in color and texturing and free of any defects.</p> <p>Stone Specifications shall be as follows:</p> <ul style="list-style-type: none"> • Specific gravity (kg/m³) – Min. 2600. • Water absorption (%) – Max. 1%. • Distortion index – Min. 5.5. • Stiffness index (row call) – Min. 10 only for lime stones used in ground texture & exposed to traffic movements. • Crushing index (Megapascal) – Min. 55. <p>Cutting, shaping and building of stone shall be in straight angles, no twisting, distortion or uneven sizes shall be allowed.</p> <p>All cuttings shall be made using Manjal.</p> <p>Measurement of all types shall be in Meter Square, for the net dimensions of the vertical plan of the elevations excluding openings of any area.</p> <p>No measurement will be made for any recesses, projections or sides of stone pieces.</p> <p>Measurement of door and window jambs and reveals, corner peaces, and the like is not applicable for any length.</p> <p>The stone facades (either built or clad) shall be measured according to their vertical elevations excluding the openings. Neither the projections (including the sides of the stone cladde columns, jambs, reveals, lintel ...etc.) nor the recesses from the relevant facades shall be subjected to measurement as these are deemed to be included in the unit rates of the relevant stone works. No extra over shall be given to stone angles or any other special stone piece deemed necessary to properly complete the works according to the drawings and specifications.</p> <p>No allowances shall be made for stone pieces in any shape.</p> <p>No allowances or extra rates shall be considered for stone courses in lintels, overhanging slabs and roof slab courses.</p> <p>Rates of stone works shall include: -</p> <ul style="list-style-type: none"> • Stone pieces in any shape for building corners, columns, lintels, arch stone pieces ...etc. • Supplying, storing, protection and removal of rejected and surplus materials. • Shaping, cutting and fitting. • Mortar and backing concrete (reinforced concrete and/or cement blocks and plain concrete). • Galvanized steel ties, dowels, hangers, steel mesh and all tying tools. • Erecting and dismantling of scaffoldings. • Pointing and pointing materials of any type, and cleaning of walls. • Lintels and other reinforced concrete elements embedded in the stone walls including reinforcement. <p>.3Cm Spray Foam for insulation between reinforced concrete and concrete blocks for walls, & compressed extruded polystyrene boards 3cm between slabs & tiles for floors. The technical specifications to be as bellow:</p> <ol style="list-style-type: none"> 1- Density: 28-35Kg/m³. 2- Long – term water absorption: < 2% 3- Closed cell structure: > 90% 4- Fire performance construction material class: B2 5- Thermal conductivity (design value): 0.028W/(m.k) 6- Impermeability to water (at 0.6 bar): water proof 7- Compressive strength(10%compression): 0.15-0.20N/mm² <p>Note: The stone reinforced concrete backing should be cast against proper formwork. After deshuttering the formwork, the Spray Foam can be installed and the 10cm block can be built. Casting directly against the foam and block is NOT allowed.</p>				

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
4.01	Supply and Build Stone Walls to the full length and height as shown in the drawings. First grade first class white stone uniform in color and texture and first quality, rough textured "Mofajar" for facades, and smooth matabbah for jambs and reveals:				
A	External stone walls of 43cm (5cm stone, 25cm concrete (B-200) backing, 3cm thermal insulation Spray Foam and cement (concrete) block backing Grade 35 (10x20x40cm). Note: the contractor shall create recess from external side for the walls that exceed 43cm thick.	NILL	M.S	NILL	NILL
B	25 cm thick with concrete B200 for parapets.	NILL	M.S	NILL	NILL
4.02	Stone cladding facades over reinforced concrete elements (shear walls, ground & drop beams, columns, slabs without drop beams (if it is existed), building & staircase parapets etc.) above side walk level (apparent facades), R.C. ground tie beam with its exterior drop recess. Price to include concrete filling of plain concrete Grade B-250, steel mesh of 6mm & galvanized steel anchor of 4mm fixed to R.C. elements and all ancillaries. Price not to include for the reinforced concrete elements to be cladded, which is to be measured under another item.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
5	<p><u>Concrete Block Works.</u></p> <p>General All works of this bill shall be of Concrete Blocks Grade 35 of high-quality standards and as per specifications. Block works shall be measured in meter square. The net measurement of the complete elevations, excluding all openings and voids more than 0.1 M. S. in area. No allowance for thickness used other than those shown in the drawings. Rates of Block works include: -</p> <ul style="list-style-type: none"> • Vertical and horizontal joints. • Cement and mortar, • Galvanized angles butter fly ties (at joints and between walls in cavity walls. • Concrete filling at all ends including reinforcing steel to cavities at quoins and door and window openings, reveals, sills for windows and the like. • R.C. Door jambs for classroom doors as per detailed drawings • Lintels and bond beams to the full length of the wall, min 20 cm. High and in the same wall thickness of reinforced concrete grade B-200 with due reinforcement steel, on top of doors and windows or as specified per drawings. • Window and door jambs of min. 20 cm width and in same wall thickness to full height of window & door. • R. concrete lintels of min. 20 cm width and sink height in same wall thickness to full length of the wall to fix sinks on where ever exists. • 10cm thick solid concrete slab above class rooms entrance and/or above student seats and the like, with concrete B300 & reinforcement as Shown on drawings. <p>• And all needed to complete job as per drawings and specifications.</p>				
5.01	<p>Supply and Build Concrete Block Walls, 'Grade 35' of any size blocks.</p> <p>a. Hollow Blocks (10. Ten) cm. Thick.</p>	3	M.S		
	<p>b. Hollow Blocks (20. Twenty) cm. Thick.</p>	NILL	M.S	NILL	NILL
To Summary Page					NIS

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
6	<p><u>Plastering Works</u></p> <p>General PLASTERING to all areas shall be measured net, including openings, which are less than 0.25 Meter Sq. The price shall include all narrow widths, for taking out joints on block walls or backing concrete face for key, for making good to frames around pipes and other fittings, plastering to jambs and reveals of openings, windowsills; all of which shall not be measured as plastering. Price shall also include Expanded metal lath, corner mesh, angle beads at all corners for the entire height, and plaster stops at opening edges, expansion joints, sills, labor, curing, erecting and dismantling of scaffoldings, additives, pigments and all incidentals required as specified and / or detailed on the Drawings.</p>				
6.01	<p>Two Coats of cement and Sand Plaster over one slurry coat to walls and ceilings and where required.</p> <p>Internal plaster: Walls and ceilings including drop beams.</p> <p>a. Walls to full height(plastering behind wall tiles not calculated in this item)</p>	5	M.S		
	<p>b. ceilings including drop beams. (Where is no false ceiling in rooms and stair case)</p>	5	M.S		
6.02	<p>External plaster:</p> <p>a. Apply decorative water proof rough colored Plaster (for parapets and external walls 3 mm thick. Price to include cleaning and preparing surface (remove old plaster like shabris and hatching and leveling the surface) , a coat of plaster cement and sand where needed, especial primer coat, colored coat as supervisor determine.</p>	NILL	M.S	NILL	NILL
	<p>b. Apply Cement and Sand Plaster, three coats over one slurry coat to External walls and where required, with the third coat of Troweled Smooth shabris, material to include white cement and Italian quartz. including metal lath of any shapes and sizes as approved by the engineer, plaster beads, plaster corner and stops.</p>	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
7	<u>Tiling, Flooring And Marble Works</u> General. 1. All tiling works (ceramics and marble) shall be measured net in square meters. Deducting all opening and voids more than 0.25 M.S. 2. Marble works for steps and treads of stairs shall be measured in linear meter. The tread, the riser, flight skirting and water stop shall all be measured as a single unit in linear meter. 3. Marble works for window sills and other openings shall be measured in square meter. 4. Parapet coping shall be measured in square meter. 5. Slate shall include preparation of surfaces under tiles, Finnish to falls and cross falls, special tile pieces for edges and the like, tile surface finishing, Plastic spacers. Plastering for wall tiles, Pointing and cleaning and all incidentals as per specifications. 6. Terrazzo tiles mix shall not exceed 1:3.				
7.01	Supply and install dark colored Glazed Ceramic Wall Tiles 0.6 cm thick to create contrast with sanitary fittings to wall and floor tiles for Low Vision, First choice and free from all defects Grade "A". (Approved by Palestine Standards Institution). Price to include colored round aluminum edges, ceramic tiles located on the top of (W.C.) partitions and plastering behind tiles. All works shall be in accordance with drawings and specifications. tile color mixed white and blue	15	M.S		
7.02	Supply and Install Non-Slip Light Colored Ceramic Floor Tiles 0.8 cm thick. to create contrast with wall tiles and fittings for Low Vision, First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site.	5	M.S		
7.03	Supply and Install Local Marble Sills, Thresholds, coping for parapets and wherever needed (3 cm. thick). Set in cement mortar bedding. Price to include grouting, polishing of face and seen edges. Price also includes fixing the coping for roof parapet, corridor parapet, skylight parapet, site walls, building entrance stair parapet, ramp parapet, internal stair parapet, and the like with Jampo screw not less than 12cm.				
A	External & Internal window sills	NILL	M.S	NILL	NILL
B	Door's thresholds	1	M.S		
C	Ramp parapet	NILL	M.S	NILL	NILL
D	Roof parapet coping	NILL	M.S	NILL	NILL
7.04	Supply and Install Polished Local Marble Tiles size (30x30x2) cm, for stair landings . Price to include stair landing skirting size (30x10x2) cm, bedding cement mortar, grouting, and on-site polishing. All as per Drawings and Specifications.	NILL	M.S	NILL	NILL
7.05	Ditto as above but for Steps and Treads of Stairs . Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 18.45 cm. and 20 mm. thickness, and local marble water stop (5cm wide X 3cm thick X length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also, the price to include filling under tiles with cement and sand 1: 6 ratios, bedding in cement mortar, grouting, pointing, polishing of face and all related works. Price to include creating grooves for low vision as per details for all steps at the stair step edge, price to include also 60cm width for the length shown in details of local marble with grooves front of the stair flight for low vision. Note: The measurement for each stair will be from the adjacent wall to the external edge of the water stop of that stair.	NILL	M.R	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
8	<p><u>CARPENTRY AND JOINERY WORKS</u></p> <p>PREAMBLE.</p> <p>Sizes of carpentry works given in the Bills of Quantities are finished sizes and shall be as per Drawings.</p> <p>Sizes of doors and other items mentioned in the Bills of Quantities shall allow for tolerance to suit the structural openings shown in the Drawings.</p> <p>• Wooden doors and pair of doors shall be measured in number for each structural opening, unless stated otherwise in the Bills of Quantities.</p> <p>• Writing boards shall be measured in number or in squared meters as mentioned in the Bills of Quantities.</p> <p>• Wall protection wooden rubbing rails shall be measured in linear meter.</p> <p>• Cloth hangers and hanger wooden base shall be measured in number or in linear meter as stated in the Bills of Quantities.</p> <p>Rates for carpentry and joinery work shall include:</p> <p>a) Shop and coordinated drawings.</p> <p>b) Frames, architrave, chalk holders and other holders and kick plates.</p> <p>c) Allowance for plastering and tiling and the like.</p> <p>d) Cutting and fitting around obstructions, Bedding and painting.</p> <p>e) Grounds, blocking and backings.</p> <p>f) Plugging concrete, block work, and stone work, and making well.</p> <p>g) Ironmongery including cylinders, cylindrical locks with master key for all the doors, handles, stoppers, screws, temporary fixing, re-fixing, oiling and adjusting.</p> <p>h) Providing three keys for each lock including tagging.</p> <p>i) Providing and fixing wall mounted wooden keys cabinet, (70*70*10) cm. varnish finished with all ironmongery including cylindrical lock.</p> <p>j) Steel legs, brackets, bearers and other supports including painting.</p> <p>k) Glass and glazing including cutting to size and putty.</p> <p>l) Fly screening including cutting to size.</p> <p>m) Preparing surfaces to receive finishes.</p> <p>n) Painting, varnishing, polishing, oiling, and the like, to any area or width in any location including work in multicolor and cutting in edges and putty.</p>				
8.01	Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Frame). (4.5*3.5) cm hardwood (Zan) edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica over veneer on both sides, color for frames and Architrave as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of galvanized steel sheet frame of 1.5mm thick (as per drawings), width according to the wall thicknesses and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Architrave of Hardwood (Swedish)(4*1.2)cm, price to include ironmongery, kick plates of aluminum 20cm height from one side for main bath room & kitchen doors, U shaped 10cm height from both sides at the bottom for internal bath room doors and at the bottom door stoppers, transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets cylindrical Lock (Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Price includes also aluminum louvers of 50x60cm in the bottom for store doors under staircase. All as per Detailed Drawings, specification.				
A	Structural opening size (90*217) cm. Door Type WD1	1	NO		
8.02	Supply and install student seat consisting of (40x20x3mm) steel tube for horizontal and vertical framing painted with hammer finish over one coat primer fixed on the floor tile by metal angel of (30*30*3mm) three number (200*9*3)cm hard wood (Swedish) fixed horizontal on the tope of the steel framing by screw with rondela (200*20*2)cm thick hard wood rail screw to the wall behind the seat at 60 cm at 48 cm high from F.F.L . And for wood will be painted with wood stain color (water base) then apply one coat top sanding sealer then two coat of top clear lacquer all as per specification.	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
9	<u>Steel And Aluminum Works</u> General Steel & Aluminum works shall be measured in number, Meter run, lump sum, and meter square for structural opening (as mentioned in each related item). Rates for metalwork shall include for: Preparing shop drawings, Drilling, counter sinking, screwing, bolting and riveting. Lugs, plugs, holdfasts and the like. Gaskets, sashes, double weather strips and External and Internal Mastic Polyurethane Sealant filling around frames. Fixed Rubber used for connection of frames in Any Corners, Also in four sides of architrave. Ironmongery including cylinders, cylindrical locks (wally or equivalent), stoppers, handles, temporarily fixing, re-fixing, oiling and adjusting. Providing three keys for each lock and padlock including tagging and a master key for all doors. Hardware including cramps, dowels and the like. Glass and glazing to be 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass, with color as directed by the engineer, including cutting to size, putty and rubber with "U "shape. Preparing surfaces for painting one coat of primer before fixing. Sealing and Painting to any area or width in any location including work in multicolor and cutting in edges. All other accessories and incidentals required to execute the work.				
9.01	Supply, fix and operate sliding Aluminum Windows Extrusion Section 7700 or equal, with protective electrostatic applied polyester powder paint of 70-80 microns. In color of bronze. Price to include 6.38mm thick laminated glass (3+0.38+3mm) for double glass, and 6mm thick laminated glass for single glass. float glazing and all other accessories and fittings to complete works as per drawings and specifications.	NILL	M.S	NILL	NILL
9.02	Ditto as 9.01 above, but in section 4400 or equal for hinged windows.	NILL	M.S	NILL	NILL
9.03	Supply and Install Protection Steel Grills . Price to include fixation, accessories, welding, grinding & smoothening. Price also to include hummer painting three coats in addition to two primer coats for windows opening .	NILL	M.S	NILL	NILL
9.04	Supply and Fix Balustrades of Seamless Steel, cylindrical, and solid profiles, as per Detailed Drawing. Price includes Fixing complete, oil paint three coats in addition to primer coat				
A	Stairs Handrails of 60x40x4mm hollow steel profile and 14x14mm square section or Stairs Handrails of 50mm dia. steel pipe and 14mm dia. vertical pipe. Price to include Fixing complete, oil paint three coats in addition to primer coat. (Seen Height 100 cm.)	NILL	M.R	NILL	NILL
B	ditto to above but for main gate parapet as existing. Price to include painting for existing and new handrail. Length measured for new handrail only.	6	M.R		
C	Grab bars for staircase of 1.5" Diam. seamless steel pipes, parallel and fixed to walls.	NILL	M.R	NILL	NILL
9.05	Supply and Fix Factory-made Steel Doors as per drawings, specification. Price to include frame (as per details), fixing completely, ironmongery, cylinders, cylindrical locks handles (Approved by Palestine Standards Institution). transparent fiber glass 6mm thick for both upper vision panel & for vision panel inside door leaf, gaskets, oil Paint in three coats in addition to two primer coats, and aluminum louvers of 50x60cm where needed.				
A	Structural opening size (100*217) cm. Door Type DS1	NILL	NO	NILL	NILL
B	Structural opening size (110*217) cm. Door Type DS2	NILL	NO	NILL	NILL
9.06	Supply and Fix Steel Doors for School Entrances as per drawings, Price to include frame, fixing completely, ironmongery, cylinders, and cylindrical locks handles (Approved by Palestine Standards Institution). gaskets, oil Paint in three coats in addition to two primer coats, price to include frame.				
A	Structural opening size (200*302) cm. Door Type DS3	NILL	NO	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
10	<p><u>Painting Works</u></p> <p>General</p> <p>Painting and decorating to walls, ceilings and the like shall be measured net in meter square.</p> <p>Painting to other works shall be included in the related items. Color as specified by engineer.</p> <p>Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted.</p> <p>The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications.</p> <p>All paint types should be approved and having a supervision certificate from the PSI.</p>				
10.01	Supply and paint high quality emulsion paint for walls to ceiling or false ceiling level, for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.02	Supply and paint high quality oil paint , for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	NILL	M.S	NILL	NILL
10.03	Supply and paint three coats polycide paint of high quality (Approved by Palestine Standards Institution).	6	M.S		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
11	<p><u>INSULATION, ROOFING AND EXPANSION JOINTS</u></p> <p>General Preamble. All finishes shall be measured superficially net unless other wise stated clearly. All finishes, include triangular shaped fillets except cement and sand lining to gutters, shall be measured on the slab surface only, parapets and column stubs to be included in the price and not to be measured. Cement and sand lining to gutters shall be measured in linear meter, unless other wise stated clearly. Rates for cement and sand work shall include for: Hacking concrete, applying cement slurry or raking out joints of block work to form key. Application to any surface. Finish to surface, to falls, cross-falls and currents. Forming bays including joints. Finish to edges and arises. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like. Measurement for concrete screed and waterproofing shall be for horizontal projection of roof area as calculated on roof plan between plastered surfaces of parapets and walls only.</p> <p>Corner chamfers and vertical waterproofing shall not be measured. Expansion joint waterproofing shall not be measured, and is included in expansion joint unit prices. Rates for waterproofing and roof sheeting shall include for Preparation of surface, cutting in edges. Overlaps priming and treatment at the corners and floor drains. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer. Side and end laps, Fittings including bolts, hook bolts, screws and washers, Sheets of any width or length.</p>				
11.01	Supply and cast plain concrete B150 (Special mix) for screed to roof with 1% slope, cast to falls not less than 3cm thickness in the drain point, rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive bitumen and all requirements as per specifications, drawings.	NILL	M.S	NILL	NILL
11.02	Supply and apply membrane of bitumen rolls 4mm (thick. Density 180 g per M.S. of reinforced polyester sheets) covered with layer of crushed white stone with overlaps of not less than 10 cm. price to include primer coat, and all sheets flashing (10cm Aluminum profile, backing rod,) & All fixation required to complete the work. the bitumen rolls should cover minimum 15 cm of the parapets above screed level. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
11.03	Supply and apply Hot Asphalt or special kalt bitumen (75/25) for sanitary units(if it is finished with tiles), and in special rooms flooring above ground floor only . Applied in two layers stiffened with fiberglass sheet, to the full area of floors and up to 15 cm. high of walls. Measurements will be for the NET surface area for horizontal projection only.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	<p><u>Sanitary ware and equipments</u></p> <ul style="list-style-type: none"> •The contractor shall, when pricing the rates of this bill, take into consideration to include and allow for the costs and expenses of all requirements stipulated here in below, drawings and the specifications of the tender. •The contractor should visit the site to verify the amount of work and familiarize himself with the nature of work. •The contractor is requested to equally consider the following notes when quoting his prices: <ol style="list-style-type: none"> 1- The price shall include all required civil works i.e. chipping in concrete walls, cutting holes "coring" (any diameter), excavation, backfilling and cement covering as specified. 2- The Contractor is requested to read the bill of quantities in conjunction with the set specifications, drawings, addendums and contract conditions. 3- (S & I) implies supply and install, including testing, adjusting, balancing, all the way to a successful operation, including the commissioning. 4- Supply networks pipes To Tanks, or from roof feeding tanks to collectors shall be priced in Linear meter. 5- Water tanks shall be measured in number. 6- Sanitary Fixtures shall be measured in number, price to include cold and hot water pipes supply and fittings to collectors, also to include drain supply , fittings connection, to Nearest riser or manhole or existing network. <p>7- Drains, Floor Traps, Clean outs and the like shall be measured in number.</p> <p>8- Internal sanitary sewers network shall be included in the rates of sanitary fixtures and appliances.</p> <p>9- Vents and vertical stacks shall measured in linear meter.</p> <p>10- Manhole, Galleys and the like shall be measured in number.</p> <p>11- External sewers pipes shall be measured in linear meter for each individual diameter and material.</p> <p>12- Rates of all fittings, fixtures, appliances and pipe laying shall include: - Supply of material, workmanship, installation, testing and commissioning.</p> <p>13- Rates to include also all peace's and fittings, including by passes, floats, cleaning outlets, automatic vents, vents and stack covers, valves and non-return valves and the like needed to complete works as per specifications.</p> <p>14- Insulation and painting as called for in specifications.</p> <p>15- Excavation and cutting for all pipe laying works, bedding back filling and all works connected with pipe laying.</p> <p>16- Maintain all existing water tanks with well two layer painted steel stand with copper automatic float valves, fittings and watertight cover.</p> <p>17- Rates to include Workshops, Operation and Guarantee all devices, Coordination with site, and all mechanical and civil works, shop drawings before starting works, Coordinated and as- built drawings as approved by theEngineer.</p> <p>18- The contractor must provide the site with suitable electrical source in order to make testing and commissioning.</p> <p>19- All Rates to include submitting Coordinated Workshops, and Coordinated as- built drawings as approved by the Supervisor Engineer.</p> <p>20- Prices includes All tests and flushing water tanks and piping networks and fill water tanks after finishing works.</p> <p>21- All mechanical Equipments must be from agent not broker.</p> <p>22- The unit price includes all required tests even if not mentioned in the description i.e. leakage test, flush test, pressure test, flow test, and any other tests required to run the system properly.</p> <p>23- All fittings, valves, tees, elbows and accessories must be anti-corrosion high class and from the same brand.</p> <p>24- Galvanized steel pipes should be protected by painting & shrinkable sheet in places where scratches happen due to fixation and using wrenches or due to any other source for scratches.</p> <p>25- The Contractor must test all the existing drainage network (pipes,manholes,floor drains...etc) and connect all the drainage systems to these pipes (existing network) if is possible.</p> <p>26- The contractor must test all existing water network and connect the fixtures to the network if it is possible.</p> <p>27- Adjust all the installations of old fixture units to be suitable for the new fixture units.</p> <p>28-Extension for all existing manholes to finish floor level.</p>				

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
12.01	Supply and Install Oriental Type Toilet (50 * 60) cm.White, (Class A and approved by Palestine Standards Institution) complete with flush tank 6 Liter, fittings, chrome plated 13mm stop valve side tap. Price to include 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water hose with flasher 100 cm length and all other fittings, China plated paper holder and all other fitting as per specifications and as directed by Engineer.	NILL	N.O	NILL	NILL
12.02	a- Supply and Install White Vitreous Western Type Toilet (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 6-liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, heavy duty paper holder, seat hard heavy-duty cover, water hose with flasher 100 cm length and all other fittings as per specifications, drawing and as directed by Eng.	1	N.O		
	b- Ditto, but for handicapped toilet , including all necessary, fittings and accessories, Stainless Steel 304 movable handle and fixed handle, as shown on drawings and in Specifications.	NILL	N.O	NILL	NILL
12.03	a. Supply and Install White Vitreous China Wash Basin (Class A and approved by Palestine Standards Institution), size (55 * 40) cm. Complete with all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, rigid siphon, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror with aluminum frame.	1	N.O		
	b. Ditto, but for handicapped Wash basin (sliding type with machine) , Including all necessary fittings and accessories as shown on drawings and in specifications. Price includes supplying and installing 40x60cm mirror with aluminum frame, gear tap.	NILL	N.O	NILL	NILL
12.04	a. Supply and Install 4" PVC Floor Trap. "With Quality Approval Tag" Price to include siphon to be fixed in reinforced concrete, (15*15) cm double chrome plated cover one grated and one-closed, waste pipes to the nearest manhole or existing network and all other Fittings needed to comply with specifications and as directed by Engineer	1	N.O		
12.05	Supply, install, testing and commissioning of water grill with dimensions (100*30*20cm) made of galvanized stainless steel with frame , price include 4" siphon and with all necessary work needed to complete the work as specification and drawing with engineers approval.	NILL	M.R	NILL	NILL
12.06	Supply and Install (Clean Out), of Drainage Network. "With Quality Approval Tags" In size and location shown in the drawings and where necessary, including all needed to complete work as specification and directed by Eng. 4" UPVC for internal drainage with (15*15) cm chrome plated screwed in cover.	NILL	N.O	NILL	NILL
12.07	Roof Drains: Supply, installation and commissioning of UPVC rainwater roof drain (Class A and approved by Palestine Standards Institution) Rainwater drain size is: 20cm x 20cm. (3" Outlet)	NILL	N.O	NILL	NILL
12.08	Rain Water pipes: - Galvanized Steel rain water pipes down to a free discharge with wired mesh above ground level, with all required hanging accessories, fittings and vent caps, all as shown in drawings, specifications, and approval of supervisor engineer.	NILL	M.R	NILL	NILL
12.09	Supply Materials for, and Construct Manholes In compliance with specifications and Drawings.Price to include excavation, concrete works, block works, back filling, cement plaster, benching, Cast Iron cover of weight not less than 50 kg, and bearing capacity load for the cover not less than 8 tons for side walk and 25 tons all other manholes. and all necessary works to comply with drawings and specifications a. Manholes Ø 60 cm clear size.	NILL	N.O	NILL	NILL
	b. Manholes Ø 80 cm clear size	NILL	N.O	NILL	NILL
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.10	Supply and Install White PVC Water Tank 1.5 Cubic meters in size . Price to include well-Two-layer painted steel stand, Copper automatic float valves, valves, fittings, vents, watertight cover, and all necessary works to complete works as per Specifications and drawings.	NILL	N.O	NILL	NILL
12.11	a. Supply and install hot water cylinder with electrical heater, of 60-liter capacity , price to include material, pipe connection from and to collectors drainage to nearest floor trap .	NILL	N.O	NILL	NILL
	b. Ditto, but 40 Liter .	NILL	N.O	NILL	NILL
12.12	Supply and install Hot and cold-water collectors with include XLPE Pipe 16mm with rigid flexible pipe insulation, oven painted cabinet with two doors, valves for branches, main valves, vents, plastic cap between pipe and insulation and all accessories.				
	a. Size $\frac{3}{4}$ "	3	N.O.E		
	b. Size 1"	NILL	N.O.E	NILL	NILL
	c. Size 1 1/4"	NILL	N.O.E	NILL	NILL
12.13	SUPPLY, INSTALL, TESTING AND COMMISSIONING auto electronic hand-dryer stainless steel with dimensions 394*234*100mm, Antibacterial coating type: HU02 (Sprayed Nickel) contains antibacterial additive in paint, Can help prevent the growth of bacteria, Back plate mounting bracket: ABS/PBT Plastic, HEPA filter (Glass fiber and fleece pre-layer), light reflective value 28.3 (grey), galvanized steel back, plate mounting bracket, exterior screw type: anti-tamper M6 machine screw, water ingress protection to IP35.	NILL	N.O	NILL	NILL
12.14	SUPPLY, INSTALL, TESTING AND COMMISSIONING long spout sensitive mixer 230 V , with 3/8" *1/2" European angle valves, the price includes all fittings and accessories to complete the job all as per specifications, drawings and approval of supervisor engineer.	NILL	N.O	NILL	NILL
12.15	Drinking Fountain: A- Supply and install outside drinking fountain as shown on drawings, rate includes, sink 0.75m width on block stands, the work should be finished and completed to the highest standard. Rate include excavation, B200 R. concrete (all steel reinforcement required), stone works, plastering, glazing tiles, local marble coping, planters and metal cover with all fittings, no of units according to drawings, high quality (Class A and approved by Palestine Standards Institution) chrome plated taps of approved kind, rates also include p.v.c. Drainpipe outlet to green area or as per drawings.	1	L.S		
	B-Ditto, but high quality (class A and approved by Palestine standards institution) chrome plated taps of approved kind.	NILL	L.S	NILL	NILL
	C- Ditto, but metal cover for drinking fountain.	NILL	L.S	NILL	NILL
	D- Ditto, but drainage network for the fountain to green area, drawings or engineers instruction.	NILL	L.S	NILL	NILL
12.16	Galvanized cold & hot water supply pipes: Supply and installation of cold & hot water distribution network of pre insulated galvanized pipes of various diameters (Sch 40) , from roof to sanitary fixture collectors and from roof to drinking fountains, and external water distribution network. Price includes all fittings, T's, elbows, insulation, fixing, etc., all pipes network including all required insulation by vido flex of 13mm thickness for hot ,6mm for cold, rolled by plastic bonds, and sleeves and all is needed to complete the works.	1	L.S		
To Next Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
	FORWARDED TOTAL				
12.17	a. Supply, install and commissioning Wall or Window Type Exhaust Fans of approved manufacture, of 100 cfm. complete with self – act automatic shutter, galvanized steel mesh. Price includes making necessary holes’ diameter in walls and fixing, electrical connections, sockets, cables and switches with indicator lamp, rain water louver with mesh cover. All is according to drawings, specifications and approval of supervisor engineer.	1	N.O		
	b.Ditto but 200 cfm.	NILL	N.O	NILL	NILL
	c.Ditto but Inline type 200 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	d.Ditto but Inline type 300 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
	e.Ditto but Inline type 400 cfm @ 110 pa with duct and grills.	NILL	N.O	NILL	NILL
12.18	Kinder WC UNIT Supply and Install White Vitreous Western Type Toilet for Kindergarten, (Class A and approved by Palestine Standards Institution) Complete with, Fittings, chrome plated 13mm stop and valve side tap. Price to include Flush tank 4.5 liter, 4" UPVC SN-8 waste pipes to nearest manhole or existing network, water tap, China plated paper holder, seat hard cover, water hose with flasher and all other fittings as per specifications, for kindergarten Size: 315x510 mm. Height: 300 mm. Sanitary Porcelain. Top of The Flush Tank from Tile: 825mm. Center of Sewage outlet from Wall Tile: 160mm. Weight: Not Less 12.8 kg.	NILL	N.O	NILL	NILL
12.19	Supply and Install White Vitreous China Wash Basin for Kindergarten, (Class A and approved by Palestine Standards Institution) , Complete with all fittings, valves, waste pipes to nearest floor trap, Rigid Mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, traps, and any other necessary parts as Specification and as directed by Eng. Price includes supplying and installing 40x60cm mirror. Size: Width 360 mm. Depth: 275 mm. Weight: Not Less 5.8 kg. Height From Tile: 600 mm.	NILL	N.O	NILL	NILL
12.20	Supply and Install all first fix for wash basins , the price includes all fittings, angle valves, waste pipes to nearest floor trap, taps or mixer (Class A and approved by Palestine Standards Institution), connection to water distribution, and any other necessary parts as Specification and as directed by Eng.	NILL	N.O	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13	<p><u>ELECTRICAL WORKS</u></p> <p>Preamble.</p> <p>All Supplied Materials Should be European Made (factory assembled) Grade A and Free From Defects, Having Supervisor Certificate From Palestinian Standard Institution (PSI).</p> <p>Price to include submittal and obtaining approval of shop drawings, detailed and as-built drawings for all works as well as coordinating the same with the other services, activities and furniture.</p> <p>Price to include, also, submittal of catalogues and manufacturer instruction. Fixtures and appliances shall be measured in number. Supply and feeder Cables, cable conduits and cable trays shall not be measured but included in DB's prices</p> <p>Manholes, handholds and the like shall be measured in number. All Systems and devices shall be in lump sum including installation, testing and commissioning.</p> <p>Rates of fixtures and appliances shall include installation, wiring, switches and conduit works.</p> <p>All systems equipment (Class A and approved by Palestine Standards Institution)</p>				

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
13.1	Sub-distribution boards				
	Supply, Install and Connect the panel Boards factory made oven painted 2mm thickness. Price to include the enclosure, miniature breakers (not less than 6 K.A.cap.) bus bars and all accessories including feeders XLPE Cables and PVC pipes as Shown on drawings and specifications.				
13.1.1	DB-B	NILL	L.S	NILL	NILL
13.2	Sockets and outlets:				
	Supply, Install, numbering and Connect the following Socket Outlets points including (3×2.5mm²) wires, conduits, sockets, draw boxes and all accessories up to DB as per drawings and specifications.				
13.2.1	3 pin Single-Phase 16 Amp sockets.	NILL	NO.	NILL	NILL
13.2.2	Ditto, but waterproof (IP65)	1	NO.		
13.2.3	3 pin single-phase 16 Amp socket (waterproof) with switch with indication lamp for extract fan.	1	NO.		
13.2.4	Supply, install, commission and test a Boiler Point. The price includes isolating switch with indication lamp, cables (3×4mm²), conduits, and all accessories up to DB as per drawings and specifications and coordination to Mechanical Contractor.	NILL	NO.	NILL	NILL
13.3	Lighting Points:				
	Supply, Install and Connect Lighting Points including Conduits and (3×1.5mm²) Wires up to the DB, Light Switches and all accessories as per drawings and specifications.				
13.3.1		2	NO.		
13.4	Lighting Fixtures:				
	Supply, Install and Connect the following Lighting Fixtures including Boxes, switches, push buttons), bulbs or tubes, control gears p.f. correction capacitors and all accessories as per drawings and specifications.				
13.4.1	. Surface mounted decorative round Ø30cm waterproof lighting fixture (2×13W) PL lamps with metal base and whitely opal diffuser like acrylic attached to the base with four screws IP54	NILL	NO.	NILL	NILL
13.4.2	Ditto, with Emergency Kit 1.5Hour duration.	1	NO.		
13.4.3	Wall mounted decorative waterproof LED lighting fixture 30W mercury lamp with metal base and milky opal diffuser like acrylic attached to the wall with four screws IP65.	1	NO.		
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for Thabra Secondary Mixed School
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS
14	<u>External Works</u>				
14.01	Plain Cast in Place colored fair face Concrete Grade B'250' with maximum 30%; clean crushed stones for external seating. Price to Include form works, curing, 20cm well compacted Base course, and all related works. Measurement for horizontal projection.	NILL	M.S	NILL	NILL
14.02	Supply and Build; Grade B '250' Concrete Pre-cast Curb Stone . Size (18/20x25x100) cm. exposed height 20 cm. Price to include excavation, casting of blinding 40*10 cm., struts 15*15 cm. of plain concrete Grade B '150 ', pointing and grouting Struts and Blinding of curbs. as Detailed in drawings, (Lowering curbs in entrance of ramps specially detailed for handicapped. Price also includes colored painting for curb stone	NILL	M.R	NILL	NILL
14.03	Supply and Build; Grade B '250' Concrete Pre-cast tiles . Size (30x30x3) cm. Price to include pointing and grouting Struts and setting with sand and mortar, price also includes all the needed filling as drawings and details.	2	M.S		
14.04	Supply and install galvanized steel mesh fence: of (Ø2.5 mm) of standard 5x5cm spacing without frame attached to galvanized steel pipe Ø2"as shown on drawings, work include all necessary fittings.	NILL	M.S	NILL	NILL
14.05	Supply and install prefabricated steel structure canopy made of elastic corrugated polycarbonate sheets 10 mm thick fixed on a skeleton of steel tube 100x100x5 mm in vertical, steel tubes 100x50 x4 mm in horizontal, arches of steel tubes 80x40 x4 mm in horizontal, purulent of tube 60x30 and 3 mm thick each 60 cm. Price to include all the required steel elements, polycarbonate sheets also reinforced concrete and concrete elements, foundations, excavations, backfilling works, all necessary polycarbonate sheets, fittings and welding elements. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as per detailed drawings, specifications and Engineer's approval. Measurements only for Horizontal dimensions of the Canopy only.	35	M.S		
14.06	ditto to above but with corrugated metal sheet canopy 0.5 mm thickness as existing.	NILL	M.S	NILL	NILL
14.07	ditto to above but maintainance for existing metal canopy . Price to include fix any damaged sheet, insolation for edges connected with building walls (metal sheet angles and special insolation materials).	NILL	L.S	NILL	NILL
14.08	Supply and install steel handicapped ramp . Price to include: * landing flat sheet "Mobazer" 4mm thick * Steel hand rail 30*30*3 . * Welding with 3.25mm Zink bars # 11 * Any plates,screws,welding, steel, needed. * Two coast of anti-rust primer paint (Local Made Quality A) for all the steel elements after cleaning the steel structure +2 coats of the superlac paint according to engineer's approval.	NILL	L.S	NILL	NILL
14.09	Supply and install and operation of an handicapped external elevator with dimensions of 140 * 140 cm and steel strucure (columns, plates) according to drawings. The price includes the painted a thermal paint that is resistant to various weather conditions, the rails, the cable, the electric motor required for lifting a distance of 2.0-2.50 m, the electrical connections, the operating press, and any necessary excavation work. The price includes handrail, gate and its accessories and any other work required for operation.	NILL	L.S	NILL	NILL
14.10	Supply, install and finish safety rubber tile size (50x50x2.5cm) for external kindergarten playground floor fixed over the floor slab with or without glue according the use. Price includes cleaning the surface before installing it.	NILL	M.S	NILL	NILL
To Summary Page				NIS	

Rehabilitation and Installation of Sanitation Facilities for **Thabra Secondary Mixed School**
Section 1 : Civil Works

Item	Description	Total Qty	Unit	Unit Rate NIS	Total Amount NIS

Item	Description	Total NIS
Bill No. 1	Site preparation.	
Bill No. 2	Excavations, Backfilling and site works.	
Bill No. 3	Concrete Works.	
Bill No. 4	Stone Works.	
Bill No. 5	Block works.	
Bill No. 6	Plastering works.	
Bill No. 7	Tiling, Flooring and Marble works.	
Bill No. 8	Carpentry and Joinery Works.	
Bill No. 9	Steel and Aluminum Works.	
Bill No. 10	Painting Works.	
Bill No. 11	Insulation, Roofing and Expansion Joints.	
Bill No. 12	Mechanical Works.	
Bill No. 13	Electrical Works.	
Bill No. 14	External Works.	
Grand Total		

Summary Page

School no	School name	Total
		NIS
1	Yasser Arafat Boys School	
2	Hisham Abdul Malek School	
3	Shaibteen School	
4	Qasem Rimawi School For Girls	
5	Basheer Barghouti For Boys	
6	Um Safa Secondary School	
7	Sinjil Boys School	
8	Khirbet Musbah Girls High School	
9	Ein Qinya Secondary School	
10	Al Fatiheen Elementary School	
11	Dirar Ibn Al Azwar Secondary Boys School	
12	Sabastia Secondary School	
13	Qusen Elementary School	
14	Bidia Elementary School For Girls	
15	Sarta Elementary School	
16	Al Mughayir Boys School	
18	Haifa Elementary School For Girls	
19	Al Fadiliya Secondary Boys School	
20	Beit Sahour Secondary Girls School	
21	Al Farouq Mixed School	
22	Thabra Secondary Mixed School	
Grand Total Excluding VAT		
% Discount or addition		
+- Discount or addition		
Grand Total Excluding VAT		

The sum of Excluding VAT NIS

Contractor:

Signature:

Date: