

Annex IV - Lot 4

**Bills of Quantities for Civil Works of septic tanks and soak-away wells
in 8 admin units in localities of Gazeera State**

Lot: 4**Site: 4-1 Al-Kamlien**

All Prices of items shall include Supplying, Installing, Connecting and testing unless otherwise indicated, the Contractor is required to have approved full coordinated workshop drawings before starting contract activities, and the price shall also include all such works.

The Workmanship and Material to be used shall, unless otherwise Specified, comply with the Latest Editions of the Requirements, Standards, Regulations, Recommendations, Code of Practice (BS, ASTM & Equivalent), and Amendments thereof.

UNDP reserves the right to omit any item considered not necessary without any compensation to the successful bidder.

Bill No. (1): Equipment's Wash Basin & percolation Pit

Item No.	Description	Unit	Qty.	Rate	Amount
1.0	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and install Fiberglass Basin for washing of pesticide cylinders & Equipments with all accessories including taps (Germany or European Country), the basin to be consist of six No. layers (2- layers fiberglass [450g/m ²], 2-layers fiberglass reinforcement [woven Roving 450g/m ² & 2- layer fiberglass [450g/m ²]. External surface to be painted with minimum two coats of epoxy water proof. The holding skeleton of basin to be one unit with the basin, the holding skeleton consist of angles [50x50x5 mm]. the Skeleton Legs to be casted in the Concrete platform. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	No.	1		
2.1	Provide and lay horizontal UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer.	ML	5		
2.2	Provide and lay horizontal UPVC pipes (6 bars) (Ø50 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer all works as per drawings, specification and direction & satisfaction of Eng.	ML	1.50		

Item No.	Description	Unit	Qty.	Rate	Amount
2.3	Provide and fix water supply pipes (Black Polythene water pipe Ø25 mm) from recognized manufacture with all fittings elbow, tee, and valve, reduce (from water Source to wash basin location.	ML	60		
3.0	Fence				
3.1	Rates shall include but not limited to supply of all materials (e.g. Post and Strut angles 50x50x6mm, barbed wire, concrete, Paints ...and the like) ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and fix in Position galvanized Barbed wire. Preparing post and struts by cut to size and drilling of holes and cuts to receive barbed wire, Erection of post, & stretch, fix and tighten barbed wire lines and cross lines Painting the Posts (measures will be based on the border length)	ML	25		
4.0	Excavate percolation pit average depth 3m filled with broken bricks and sand in alternate layers. The drain pipe to be extended in with length of 1.75 m inside the percolation pit, the bricks around the drain pipe to be lay in courses all as per drawings & Satisfaction of Engineer.	No.	1		
5.0	Wash Basin Platform				
5.1	Excavation & Backfilling Rate shall include digging, Cart away & back filling Excavation for soil replacement below the reference natural ground level Area (2.20X1.80) with average depth of 60 cm and cart material away to Approved Municipality Locations, then lay and compact selected soil in layers of Max. thickness 200 mm, the last compacted Layer to be in one level with natural ground level.	Job.	1		
5.2	Provide, all materials mix and lay in position plain concrete Grade 15 with Nominal Steel Mesh Ø 8 mm @ 150 mm c/c both way at mid depth for platform (2.2x1.8x0.25 m), Cost shall include all materials, form work, labour, curing, ...etc. All as per specifications, drawings & Satisfaction of Engineer.	Job.	1		
6.0	Provide materials and construct one Brick wall manholes of Size 80.0X80.0 cm as specified in drawings. The cover for manhole to be concrete with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mmc/c both way.	No.	1		
7.0	Provide, Build & Plastered (ordinary red, burned bricks) in cement /sand mortar (1:6) for one brick Wall above the Concrete platform adjusting to wash basin All as per specifications, drawings & Satisfaction of Engineer.	M ²	1		

Item No.	Description	Unit	Qty.	Rate	Amount
8.0	Safety Gate: Provide Manufacture and Fix Rectangular Steel Pipe, in Safety Gate with Frame Section (80x40x1.0) mm & Horizontal and Vertical Grid members of Section (60x30x1.0) mm, gauge heavy duty, factory powder painted red oxide paint before fixing and final paint (colored to be approved by the Engineer), as shown on Drawings. Gate size 1.30X0.90 m	No.	1		
9.1	Provide and install in position a water tank of 1000 Liter capacity with water pump 0.50 HP (including security cage for water pump), with all fittings, float, non-return valves, gate valves, drain, overflow ...etc. Rate shall include the necessary supporting required as per drawing, specification and direct by Eng.	No.	1		
9.2	Provide and fix in Position Water Tank Steel Tower (Base Dimensions 1.2mx1.2m). Rate shall include all material (e.g. Post and Strut angles 75x75x6mm, water tank base plate thickness 6mm, concrete Foundations ...and the like) Rate should include preparation, cutting, size, welding ,Painting with anti rust & Final coat and Erection of tower. THE CONTRACTOR TO SUBMIT SHOP DRAWING FOR STEEL TOWE FOR CHECK AND APPROVAL All works as per specification and direct by Eng.	No.	1		
Total of Bill No. (1)					

Bill No. (2): Septic Tank & Soak away

Item No.	Description	Unit	Qty.	Rate	Amount
1.0	Excavation effluent soak-away well internal diameter (net after one brick wall) from grout level to end depth of (2.0m) before lowest summer water table complete with stringer beam cover slab and concrete cover with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mmc/c both way, and one brick thick wall with mix 1:6 lining to wall with 2.0m internal diameter rate shall include test of water table Constant discharge by using three phase 10 horse pump for 3 hours according to local Municipality all complete to satisfaction of Eng. Recovery test shall be carried out after the constant Discharge test. Until the water level in the well returns approximately to the static level according to the satisfaction of .Eng	Job	1		
2.0	Provide and install Fiberglass septic tank (capacity = 45 persons), Septic tank to be consist of TEN No. layers (2-layers fiberglass [450g/m ²], 4-layers fiberglass reinforcement [woven Roving 450g/m ² & 4- layer fiberglass [450g/m ²]. The External & Internal surfaces to be painted with minimum two coats of epoxy water proof. The Septic tank to be stiffening with steel circular pipe at 0.70 m height & 1.50 m height, three holding Hooks to be welded to the steel circular pipe at 1.5m height. Septic tank top to be reinforced with Heavy steel pipe (80X40X1.5mm) to receive manhole brick walls. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	No.	1		
2.1	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and lay horizontal UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer.	ML	3		
Total of Bill No. (2)					

No.	Description	Amount
1	Total of Bill No. (1)	
2	Total of Bill No. (2)	
Total Amount		

Lot: 4**Site: 4-2 Al-Mieleg**

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Bill No. (1): Equipment's Wash Basin & percolation Pit

Item No.	Description	Unit	Qty.	Rate	Amount
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2.1	Provide and lay horizontal UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer.	ML	5		
2.2	Provide and lay horizontal UPVC pipes (6 bars) (Ø50 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer all works as per drawings, specification and direction & satisfaction of Eng.	ML	1.50		

Item No.	Description	Unit	Qty.	Rate	Amount
2.3	Provide and fix water supply pipes (Black Polythene water pipe Ø25 mm) from recognized manufacture with all fittings elbow, tee, and valve, reduce (from water Source to wash basin location.	ML	50		
3.0	Fence				
3.1	Rates shall include but not limited to supply of all materials (e.g. Post and Strut angles 50x50x6mm, barbed wire, concrete, Paints ...and the like) ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and fix in Position galvanized Barbed wire. Preparing post and struts by cut to size and drilling of holes and cuts to receive barbed wire, Erection of post, & stretch, fix and tighten barbed wire lines and cross lines Painting the Posts (measures will be based on the border length)	ML	25		
4.0	Excavate percolation pit average depth 3m filled with broken bricks and sand in alternate layers. The drain pipe to be extended in with length of 1.75 m inside the percolation pit, the bricks around the drain pipe to be lay in courses all as per drawings & Satisfaction of Engineer.	No.	1		
5.0	Wash Basin Platform				
5.1	Excavation & Backfilling Rate shall include digging, Cart away & back filling Excavation for soil replacement below the reference natural ground level Area (2.20X1.80) with average depth of 60 cm and cart material away to Approved Municipality Locations, then lay and compact selected soil in layers of Max. thickness 200 mm, the last compacted Layer to be in one level with natural ground level.	Job.	1		
5.2	Provide, all materials mix and lay in position plain concrete Grade 15 with Nominal Steel Mesh Ø 8 mm @ 150 mm c/c both way at mid depth for platform (2.2x1.8x0.25 m), Cost shall include all materials, form work, labour, curing, ...etc. All as per specifications, drawings & Satisfaction of Engineer.	Job.	1		
6.0	Provide materials and construct one Brick wall manholes of Size 80.0X80.0 cm as specified in drawings. The cover for manhole to be concrete with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @150mmc/c both way.	No.	1		
7.0	Provide, Build & Plastered (ordinary red, burned bricks) in cement /sand mortar (1:6) for one brick Wall above the Concrete platform adjusting to wash basin All as per specifications, drawings & Satisfaction of Engineer.	M ²	1		

Item No.	Description	Unit	Qty.	Rate	Amount
8.0	Safety Gate: Provide Manufacture and Fix Rectangular Steel Pipe, in Safety Gate with Frame Section (80x40x1.0) mm & Horizontal and Vertical Grid members of Section (60x30x1.0) mm, gauge heavy duty, factory powder painted red oxide paint before fixing and final paint (colored to be approved by the Engineer), as shown on Drawings. Gate size 1.30X0.90 m	No.	1		
9.1	Provide and install in position a water tank of 1000 Liter capacity with water pump 0.50 HP (including security cage for water pump), with all fittings, float, non-return valves, gate valves, drain, overflow ...etc. Rate shall include the necessary supporting required as per drawing, specification and direct by Eng.	No.	1		
9.2	Provide and fix in Position Water Tank Steel Tower (Base Dimensions 1.2mx1.2m). Rate shall include all material (e.g. Post and Strut angles 75x75x6mm, water tank base plate thickness 6mm, concrete Foundations ...and the like) Rate should include preparation, cutting, size, welding ,Painting with anti rust & Final coat and Erection of tower. THE CONTRACTOR TO SUBMIT SHOP DRAWING FOR STEEL TOWE FOR CHECK AND APPROVAL All works as per specification and direct by Eng.	No.	1		
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Total of Bill No. (2)					

No.	Description	Amount
1	Total of Bill No. (1)	
2	Total of Bill No. (2)	
Total Amount		

Lot: 4**Site: 4-3 Al-Senaat**

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3.0	Fence				
3.1	Rates shall include but not limited to supply of all materials (e.g. Post and Strut angles 50x50x6mm, barbed wire, concrete, Paints ...and the like) ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and fix in Position galvanized Barbed wire. Preparing post and struts by cut to size and drilling of holes and cuts to receive barbed wire, Erection of post, & stretch, fix and tighten barbed wire lines and cross lines Painting the Posts (measures will be based on the border length)	ML	25		
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5.0	Wash Basin Platform				
5.1	Excavation & Backfilling Rate shall include digging, Cart away & back filling Excavation for soil replacement below the reference natural ground level Area (2.20X1.80) with average depth of 60 cm and cart material away to Approved Municipality Locations, then lay and compact selected soil in layers of Max. thickness 200 mm, the last compacted Layer to be in one level with natural ground level.	Job.	1		
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9.1	Provide and install in position a water tank of 1000 Liter capacity with water pump 0.50 HP (including security cage for water pump), with all fittings, float, non-return valves, gate valves, drain, overflow ...etc. Rate shall include the necessary supporting required as per drawing, specification and direct by Eng.	No.	1		
9.2	Provide and fix in Position Water Tank Steel Tower (Base Dimensions 1.2mx1.2m). Rate shall include all material (e.g. Post and Strut angles 75x75x6mm, water tank base plate thickness 6mm, concrete Foundations ...and the like) Rate should include preparation, cutting, size, welding ,Painting with anti rust & Final coat and Erection of tower. THE CONTRACTOR TO SUBMIT SHOP DRAWING FOR STEEL TOWE FOR CHECK AND APPROVAL All works as per specification and direct by Eng.	No.	1		
Total of Bill No. (1)					

Lot: 4**Site: 4-4 Al-Maseed**

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2.1	Provide and lay horizontal UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer.	ML	5		
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Total of Bill No. (1)					

Lot: 4**Site: 4-5 Abu Gutta**

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5.0	Wash Basin Platform				
5.1	Excavation & Backfilling Rate shall include digging, Cart away & back filling Excavation for soil replacement below the reference natural ground level Area (2.20X1.80) with average depth of 60 cm and cart material away to Approved Municipality Locations, then lay and compact selected soil in layers of Max. thickness 200 mm, the last compacted Layer to be in one level with natural ground level.	Job.	1		
5.2	Provide, all materials mix and lay in position plain concrete Grade 15 with Nominal Steel Mesh Ø 8 mm @ 150 mm c/c both way at mid depth for platform (2.2x1.8x0.25 m), Cost shall include all materials, form work, labour, curing, ...etc. All as per specifications, drawings & Satisfaction of Engineer.	Job.	1		
6.0	Provide materials and construct one Brick wall manholes of Size 80.0X80.0 cm as specified in drawings. The cover for manhole to be concrete with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @150mmc/c both way.	No.	1		
7.0	Provide, Build & Plastered (ordinary red, burned bricks) in cement /sand mortar (1:6) for one brick Wall above the Concrete platform adjusting to wash basin All as per specifications, drawings & Satisfaction of Engineer.	M ²	1		

Item No.	Description	Unit	Qty.	Rate	Amount
8.0	Safety Gate: Provide Manufacture and Fix Rectangular Steel Pipe, in Safety Gate with Frame Section (80x40x1.0) mm & Horizontal and Vertical Grid members of Section (60x30x1.0) mm, gauge heavy duty, factory powder painted red oxide paint before fixing and final paint (colored to be approved by the Engineer), as shown on Drawings. Gate size 1.30X0.90 m	No.	1		
9.1	Provide and install in position a water tank of 1000 Liter capacity with water pump 0.50 HP (including security cage for water pump), with all fittings, float, non-return valves, gate valves, drain, overflow ...etc. Rate shall include the necessary supporting required as per drawing, specification and direct by Eng.	No.	1		
9.2	Provide and fix in Position Water Tank Steel Tower (Base Dimensions 1.2mx1.2m). Rate shall include all material (e.g. Post and Strut angles 75x75x6mm, water tank base plate thickness 6mm, concrete Foundations ...and the like) Rate should include preparation, cutting, size, welding ,Painting with anti rust & Final coat and Erection of tower. THE CONTRACTOR TO SUBMIT SHOP DRAWING FOR STEEL TOWE FOR CHECK AND APPROVAL All works as per specification and direct by Eng.	No.	1		
Total of Bill No. (1)					

Bill No. (2): Septic Tank & Soak away

Item No.	Description	Unit	Qty.	Rate	Amount
1.0	Excavation effluent soak-away well internal diameter (net after one brick wall) from grout level to end depth of (2.0m) before lowest summer water table complete with stringer beam cover slab and concrete cover with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mmc/c both way, and one brick thick wall with mix 1:6 lining to wall with 2.0m internal diameter rate shall include test of water table Constant discharge by using three phase 10 horse pump for 3 hours according to local Municipality all complete to satisfaction of Eng. Recovery test shall be carried out after the constant Discharge test. Until the water level in the well returns approximately to the static level according to the satisfaction of .Eng	Job	1		
2.0	Provide and install Fiberglass septic tank (capacity = 45 persons), Septic tank to be consist of TEN No. layers (2-layers fiberglass [450g/m ²], 4-layers fiberglass reinforcement [woven Roving 450g/m ² & 4- layer fiberglass [450g/m ²]. The External & Internal surfaces to be painted with minimum two coats of epoxy water proof. The Septic tank to be stiffening with steel circular pipe at 0.70 m height & 1.50 m height, three holding Hooks to be welded to the steel circular pipe at 1.5m height. Septic tank top to be reinforced with Heavy steel pipe (80X40X1.5mm) to receive manhole brick walls. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	No.	1		
2.1	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and lay horizontal UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer.	ML	3		
Total of Bill No. (2)					

No.	Description	Amount
1	Total of Bill No. (1)	
2	Total of Bill No. (2)	
Total Amount		

Lot: 4**Site: 4-6 Al-REBEE**

All Prices of items shall include Supplying, Installing, Connecting and testing unless otherwise indicated, the Contractor is required to have approved full coordinated workshop drawings before starting contract activities, and the price shall also include all such works.

The Workmanship and Material to be used shall, unless otherwise Specified, comply with the Latest Editions of the Requirements, Standards, Regulations, Recommendations, Code of Practice (BS, ASTM & Equivalent), and Amendments thereof.

UNDP reserves the right to omit any item considered not necessary without any compensation to the successful bidder.

Bill No. (1): Equipment's Wash Basin & percolation Pit

Item No.	Description	Unit	Qty.	Rate	Amount
1.0	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and install Fiberglass Basin for washing of pesticide cylinders & Equipments with all accessories including taps (Germany or European Country), the basin to be consist of six No. layers (2- layers fiberglass [450g/m ²], 2-layers fiberglass reinforcement [woven Roving 450g/m ² & 2- layer fiberglass [450g/m ²]. External surface to be painted with minimum two coats of epoxy water proof. The holding skeleton of basin to be one unit with the basin, the holding skeleton consist of angles [50x50x5 mm]. the Skeleton Legs to be casted in the Concrete platform. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	No.	1		
2.1	Provide and lay horizontal UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer.	ML	5		
2.2	Provide and lay horizontal UPVC pipes (6 bars) (Ø50 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer all works as per drawings, specification and direction & satisfaction of Eng.	ML	1.50		

Item No.	Description	Unit	Qty.	Rate	Amount
2.3	Provide and fix water supply pipes (Black Polythene water pipe Ø25 mm) from recognized manufacture with all fittings elbow, tee, and valve, reduce (from water Source to wash basin location.	ML	50		
3.0	Fence				
3.1	Rates shall include but not limited to supply of all materials (e.g. Post and Strut angles 50x50x6mm, barbed wire, concrete, Paints ...and the like) ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and fix in Position galvanized Barbed wire. Preparing post and struts by cut to size and drilling of holes and cuts to receive barbed wire, Erection of post, & stretch, fix and tighten barbed wire lines and cross lines Painting the Posts (measures will be based on the border length)	ML	25		
4.0	Excavate percolation pit average depth 3m filled with broken bricks and sand in alternate layers. The drain pipe to be extended in with length of 1.75 m inside the percolation pit, the bricks around the drain pipe to be lay in courses all as per drawings & Satisfaction of Engineer.	No.	1		
5.0	Wash Basin Platform				
5.1	Excavation & Backfilling Rate shall include digging, Cart away & back filling Excavation for soil replacement below the reference natural ground level Area (2.20X1.80) with average depth of 60 cm and cart material away to Approved Municipality Locations, then lay and compact selected soil in layers of Max. thickness 200 mm, the last compacted Layer to be in one level with natural ground level.	Job.	1		
5.2	Provide, all materials mix and lay in position plain concrete Grade 15 with Nominal Steel Mesh Ø 8 mm @ 150 mm c/c both way at mid depth for platform (2.2x1.8x0.25 m), Cost shall include all materials, form work, labour, curing, ...etc. All as per specifications, drawings & Satisfaction of Engineer.	Job.	1		
6.0	Provide materials and construct one Brick wall manholes of Size 80.0X80.0 cm as specified in drawings. The cover for manhole to be concrete with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @150mmc/c both way.	No.	1		
7.0	Provide, Build & Plastered (ordinary red, burned bricks) in cement /sand mortar (1:6) for one brick Wall above the Concrete platform adjusting to wash basin All as per specifications, drawings & Satisfaction of Engineer.	M ²	1		

Item No.	Description	Unit	Qty.	Rate	Amount
8.0	Safety Gate: Provide Manufacture and Fix Rectangular Steel Pipe, in Safety Gate with Frame Section (80x40x1.0) mm & Horizontal and Vertical Grid members of Section (60x30x1.0) mm, gauge heavy duty, factory powder painted red oxide paint before fixing and final paint (colored to be approved by the Engineer), as shown on Drawings. Gate size 1.30X0.90 m	No.	1		
9.1	Provide and install in position a water tank of 1000 Liter capacity with water pump 0.50 HP (including security cage for water pump), with all fittings, float, non-return valves, gate valves, drain, overflow ...etc. Rate shall include the necessary supporting required as per drawing, specification and direct by Eng.	No.	1		
9.2	Provide and fix in Position Water Tank Steel Tower (Base Dimensions 1.2mx1.2m). Rate shall include all material (e.g. Post and Strut angles 75x75x6mm, water tank base plate thickness 6mm, concrete Foundations ...and the like) Rate should include preparation, cutting, size, welding ,Painting with anti rust & Final coat and Erection of tower. THE CONTRACTOR TO SUBMIT SHOP DRAWING FOR STEEL TOWE FOR CHECK AND APPROVAL All works as per specification and direct by Eng.	No.	1		
	Total of Bill No. (1)				

Bill No. (2): Septic Tank & Soak away

Item No.	Description	Unit	Qty.	Rate	Amount
1.0	Excavation effluent soak-away well internal diameter (net after one brick wall) from grout level to end depth of (2.0m) before lowest summer water table complete with stringer beam cover slab and concrete cover with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mmc/c both way, and one brick thick wall with mix 1:6 lining to wall with 2.0m internal diameter rate shall include test of water table Constant discharge by using three phase 10 horse pump for 3 hours according to local Municipality all complete to satisfaction of Eng. Recovery test shall be carried out after the constant Discharge test. Until the water level in the well returns approximately to the static level according to the satisfaction of .Eng	Job	1		
2.0	Provide and install Fiberglass septic tank (capacity = 45 persons), Septic tank to be consist of TEN No. layers (2-layers fiberglass [450g/m ²], 4-layers fiberglass reinforcement [woven Roving 450g/m ² & 4- layer fiberglass [450g/m ²]. The External & Internal surfaces to be painted with minimum two coats of epoxy water proof. The Septic tank to be stiffening with steel circular pipe at 0.70 m height & 1.50 m height, three holding Hooks to be welded to the steel circular pipe at 1.5m height. Septic tank top to be reinforced with Heavy steel pipe (80X40X1.5mm) to receive manhole brick walls. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	No.	1		
2.1	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and lay horizontal UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer.	ML	3		
Total of Bill No. (2)					

No.	Description	Amount
1	Total of Bill No. (1)	
2	Total of Bill No. (2)	
Total Amount		

Lot: 4**Site: 4-7 Al-Meherieba**

All Prices of items shall include Supplying, Installing, Connecting and testing unless otherwise indicated, the Contractor is required to have approved full coordinated workshop drawings before starting contract activities, and the price shall also include all such works.

The Workmanship and Material to be used shall, unless otherwise Specified, comply with the Latest Editions of the Requirements, Standards, Regulations, Recommendations, Code of Practice (BS, ASTM & Equivalent), and Amendments thereof.

UNDP reserves the right to omit any item considered not necessary without any compensation to the successful bidder.

Bill No. (1): Equipment's Wash Basin & percolation Pit

Item No.	Description	Unit	Qty.	Rate	Amount
1.0	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and install Fiberglass Basin for washing of pesticide cylinders & Equipments with all accessories including taps (Germany or European Country), the basin to be consist of six No. layers (2- layers fiberglass [450g/m ²], 2-layers fiberglass reinforcement [woven Roving 450g/m ² & 2- layer fiberglass [450g/m ²]. External surface to be painted with minimum two coats of epoxy water proof. The holding skeleton of basin to be one unit with the basin, the holding skeleton consist of angles [50x50x5 mm]. the Skeleton Legs to be casted in the Concrete platform. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	No.	1		
2.1	Provide and lay horizontal UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer.	ML	5		
2.2	Provide and lay horizontal UPVC pipes (6 bars) (Ø50 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer all works as per drawings, specification and direction & satisfaction of Eng.	ML	1.50		

Item No.	Description	Unit	Qty.	Rate	Amount
2.3	Provide and fix water supply pipes (Black Polythene water pipe Ø25 mm) from recognized manufacture with all fittings elbow, tee, and valve, reduce (from water Source to wash basin location.	ML	90		
3.0	Fence				
3.1	Rates shall include but not limited to supply of all materials (e.g. Post and Strut angles 50x50x6mm, barbed wire, concrete, Paints ...and the like) ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and fix in Position galvanized Barbed wire. Preparing post and struts by cut to size and drilling of holes and cuts to receive barbed wire, Erection of post, & stretch, fix and tighten barbed wire lines and cross lines Painting the Posts (measures will be based on the border length)	ML	25		
4.0	Excavate percolation pit average depth 3m filled with broken bricks and sand in alternate layers. The drain pipe to be extended in with length of 1.75 m inside the percolation pit, the bricks around the drain pipe to be lay in courses all as per drawings & Satisfaction of Engineer.	No.	1		
5.0	Wash Basin Platform				
5.1	Excavation & Backfilling Rate shall include digging, Cart away & back filling Excavation for soil replacement below the reference natural ground level Area (2.20X1.80) with average depth of 60 cm and cart material away to Approved Municipality Locations, then lay and compact selected soil in layers of Max. thickness 200 mm, the last compacted Layer to be in one level with natural ground level.	Job.	1		
5.2	Provide, all materials mix and lay in position plain concrete Grade 15 with Nominal Steel Mesh Ø 8 mm @ 150 mm c/c both way at mid depth for platform (2.2x1.8x0.25 m), Cost shall include all materials, form work, labour, curing, ...etc. All as per specifications, drawings & Satisfaction of Engineer.	Job.	1		
6.0	Provide materials and construct one Brick wall manholes of Size 80.0X80.0 cm as specified in drawings. The cover for manhole to be concrete with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @150mmc/c both way.	No.	1		
7.0	Provide, Build & Plastered (ordinary red, burned bricks) in cement /sand mortar (1:6) for one brick Wall above the Concrete platform adjusting to wash basin All as per specifications, drawings & Satisfaction of Engineer.	M ²	1		

Item No.	Description	Unit	Qty.	Rate	Amount
8.0	Safety Gate: Provide Manufacture and Fix Rectangular Steel Pipe, in Safety Gate with Frame Section (80x40x1.0) mm & Horizontal and Vertical Grid members of Section (60x30x1.0) mm, gauge heavy duty, factory powder painted red oxide paint before fixing and final paint (colored to be approved by the Engineer), as shown on Drawings. Gate size 1.30X0.90 m	No.	1		
9.1	Provide and install in position a water tank of 1000 Liter capacity with water pump 0.50 HP (including security cage for water pump), with all fittings, float, non-return valves, gate valves, drain, overflow ...etc. Rate shall include the necessary supporting required as per drawing, specification and direct by Eng.	No.	1		
9.2	Provide and fix in Position Water Tank Steel Tower (Base Dimensions 1.2mx1.2m). Rate shall include all material (e.g. Post and Strut angles 75x75x6mm, water tank base plate thickness 6mm, concrete Foundations ...and the like) Rate should include preparation, cutting, size, welding ,Painting with anti rust & Final coat and Erection of tower. THE CONTRACTOR TO SUBMIT SHOP DRAWING FOR STEEL TOWE FOR CHECK AND APPROVAL All works as per specification and direct by Eng.	No.	1		
Total of Bill No. (1)					

Bill No. (2): Septic Tank & Soak away

Item No.	Description	Unit	Qty.	Rate	Amount
1.0	Excavation effluent soak-away well internal diameter (net after one brick wall) from grout level to end depth of (2.0m) before lowest summer water table complete with stringer beam cover slab and concrete cover with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mmc/c both way, and one brick thick wall with mix 1:6 lining to wall with 2.0m internal diameter rate shall include test of water table Constant discharge by using three phase 10 horse pump for 3 hours according to local Municipality all complete to satisfaction of Eng. Recovery test shall be carried out after the constant Discharge test. Until the water level in the well returns approximately to the static level according to the satisfaction of .Eng	Job	1		
2.0	Provide and install Fiberglass septic tank (capacity = 45 persons), Septic tank to be consist of TEN No. layers (2-layers fiberglass [450g/m ²], 4-layers fiberglass reinforcement [woven Roving 450g/m ² & 4- layer fiberglass [450g/m ²]. The External & Internal surfaces to be painted with minimum two coats of epoxy water proof. The Septic tank to be stiffening with steel circular pipe at 0.70 m height & 1.50 m height, three holding Hooks to be welded to the steel circular pipe at 1.5m height. Septic tank top to be reinforced with Heavy steel pipe (80X40X1.5mm) to receive manhole brick walls. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	No.	1		
2.1	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and lay horizontal UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer.	ML	3		
Total of Bill No. (2)					

No.	Description	Amount
1	Total of Bill No. (1)	
2	Total of Bill No. (2)	
Total Amount		

Lot: 4**Site: 4-8 Abu Usher**

All Prices of items shall include Supplying, Installing, Connecting and testing unless otherwise indicated, the Contractor is required to have approved full coordinated workshop drawings before starting contract activities, and the price shall also include all such works.

The Workmanship and Material to be used shall, unless otherwise Specified, comply with the Latest Editions of the Requirements, Standards, Regulations, Recommendations, Code of Practice (BS, ASTM & Equivalent), and Amendments thereof.

UNDP reserves the right to omit any item considered not necessary without any compensation to the successful bidder.

Bill No. (1): Equipment's Wash Basin & percolation Pit

Item No.	Description	Unit	Qty.	Rate	Amount
1.0	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and install Fiberglass Basin for washing of pesticide cylinders & Equipments with all accessories including taps (Germany or European Country), the basin to be consist of six No. layers (2- layers fiberglass [450g/m ²], 2-layers fiberglass reinforcement [woven Roving 450g/m ² & 2- layer fiberglass [450g/m ²]. External surface to be painted with minimum two coats of epoxy water proof. The holding skeleton of basin to be one unit with the basin, the holding skeleton consist of angles [50x50x5 mm]. the Skeleton Legs to be casted in the Concrete platform. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	No.	1		
2.1	Provide and lay horizontal UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer.	ML	5		
2.2	Provide and lay horizontal UPVC pipes (6 bars) (Ø50 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer all works as per drawings, specification and direction & satisfaction of Eng.	ML	1.50		

Item No.	Description	Unit	Qty.	Rate	Amount
2.3	Provide and fix water supply pipes (Black Polythene water pipe Ø25 mm) from recognized manufacture with all fittings elbow, tee, and valve, reduce (from water Source to wash basin location.	ML	100		
3.0	Fence				
3.1	Rates shall include but not limited to supply of all materials (e.g. Post and Strut angles 50x50x6mm, barbed wire, concrete, Paints ...and the like) ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and fix in Position galvanized Barbed wire. Preparing post and struts by cut to size and drilling of holes and cuts to receive barbed wire, Erection of post, & stretch, fix and tighten barbed wire lines and cross lines Painting the Posts (measures will be based on the border length)	ML	25		
4.0	Excavate percolation pit average depth 3m filled with broken bricks and sand in alternate layers. The drain pipe to be extended in with length of 1.75 m inside the percolation pit, the bricks around the drain pipe to be lay in courses all as per drawings & Satisfaction of Engineer.	No.	1		
5.0	Wash Basin Platform				
5.1	Excavation & Backfilling Rate shall include digging, Cart away & back filling Excavation for soil replacement below the reference natural ground level Area (2.20X1.80) with average depth of 60 cm and cart material away to Approved Municipality Locations, then lay and compact selected soil in layers of Max. thickness 200 mm, the last compacted Layer to be in one level with natural ground level.	Job.	1		
5.2	Provide, all materials mix and lay in position plain concrete Grade 15 with Nominal Steel Mesh Ø 8 mm @ 150 mm c/c both way at mid depth for platform (2.2x1.8x0.25 m), Cost shall include all materials, form work, labour, curing, ...etc. All as per specifications, drawings & Satisfaction of Engineer.	Job.	1		
6.0	Provide materials and construct one Brick wall manholes of Size 80.0X80.0 cm as specified in drawings. The cover for manhole to be concrete with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mmc/c both way.	No.	1		
7.0	Provide, Build & Plastered (ordinary red, burned bricks) in cement /sand mortar (1:6) for one brick Wall above the Concrete platform adjusting to wash basin All as per specifications, drawings & Satisfaction of Engineer.	M ²	1		

Item No.	Description	Unit	Qty.	Rate	Amount
8.0	Safety Gate: Provide Manufacture and Fix Rectangular Steel Pipe, in Safety Gate with Frame Section (80x40x1.0) mm & Horizontal and Vertical Grid members of Section (60x30x1.0) mm, gauge heavy duty, factory powder painted red oxide paint before fixing and final paint (colored to be approved by the Engineer), as shown on Drawings. Gate size 1.30X0.90 m	No.	1		
9.1	Provide and install in position a water tank of 1000 Liter capacity with water pump 0.50 HP (including security cage for water pump), with all fittings, float, non-return valves, gate valves, drain, overflow ...etc. Rate shall include the necessary supporting required as per drawing, specification and direct by Eng.	No.	1		
9.2	Provide and fix in Position Water Tank Steel Tower (Base Dimensions 1.2mx1.2m). Rate shall include all material (e.g. Post and Strut angles 75x75x6mm, water tank base plate thickness 6mm, concrete Foundations ...and the like) Rate should include preparation, cutting, size, welding ,Painting with anti rust & Final coat and Erection of tower. THE CONTRACTOR TO SUBMIT SHOP DRAWING FOR STEEL TOWE FOR CHECK AND APPROVAL All works as per specification and direct by Eng.	No.	1		
	Total of Bill No. (1)				

Bill No. (2): Septic Tank & Soak away

Item No.	Description	Unit	Qty.	Rate	Amount
1.0	Excavation effluent soak-away well internal diameter (net after one brick wall) from grout level to end depth of (2.0m) before lowest summer water table complete with stringer beam cover slab and concrete cover with steel angles 50x50/5mm and nominal steel mesh Ø 8 mm @ 150mmc/c both way, and one brick thick wall with mix 1:6 lining to wall with 2.0m internal diameter rate shall include test of water table Constant discharge by using three phase 10 horse pump for 3 hours according to local Municipality all complete to satisfaction of Eng. Recovery test shall be carried out after the constant Discharge test. Until the water level in the well returns approximately to the static level according to the satisfaction of .Eng	Job	1		
2.0	Provide and install Fiberglass septic tank (capacity = 45 persons), Septic tank to be consist of TEN No. layers (2-layers fiberglass [450g/m ²], 4-layers fiberglass reinforcement [woven Roving 450g/m ² & 4- layer fiberglass [450g/m ²]. The External & Internal surfaces to be painted with minimum two coats of epoxy water proof. The Septic tank to be stiffening with steel circular pipe at 0.70 m height & 1.50 m height, three holding Hooks to be welded to the steel circular pipe at 1.5m height. Septic tank top to be reinforced with Heavy steel pipe (80X40X1.5mm) to receive manhole brick walls. All material to be according to the British standers or equivalent & the manufacture to be from a recognized reputable manufacturer	No.	1		
2.1	Rates shall include but not limited to supply of all materials ,equipments tools, testing commissioning and the installation workmanship as per the drawings and specifications and directions& satisfaction of the Engineer Provide and lay horizontal UPVC pipes (6 bars) (Ø100 mm) from a recognized reputable manufacturer with all fittings and to be laid according to specifications. Rate shall include excavation and backfill and all necessary works related manufacturer.	ML	3		
Total of Bill No. (2)					

No.	Description	Amount
1	Total of Bill No. (1)	
2	Total of Bill No. (2)	
Total Amount		

Summary of Lot no. 4:

No.	Description	Amount
1	Total of Site 4-1	
2	Total of Site 4-2	
3	Total of Site 4-3	
4	Total of Site 4-4	
5	Total of Site 4-5	
6	Total of Site 4-6	
7	Total of Site 4-7	
8	Total of Site 4-8	
Total Amount of Lot 4		