

Lot-2

Project No.	Project Name	District	Village		Facilities	
GA-S-R-04	Upgrading of the road connecting to Shikh Misry Town Ship	Surkhrod	Char Bagh		DBST Road	9.34 km
Descriptions		Unit	Quantity	Unit Rate (US\$)	Amount (US\$)	Remarks
Total Estimated Cost						
Preliminary & Mobilization/Demobilization (6% of items below)		L.S.				
1. Demolition						
	Dismantling of RCC Concrete Structure (Dismantling of existing RCC structures like culverts, bridges, retaining walls and other structures comprising of RCC cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead up to designated authorized site.)	cum				
2. Earthworks						
	Excavation in Soft Soil (Excavation from drain and foundation of other structures)	cum	2,249			
	Excavation in Soft Soil (Excavation from roadway cutting)	cum	2,345			
	Excavation in Soft Soil (Excavation from approved borrow sites including loading in truck for carrying of cut earth to embankment site.)	cum	17,706			
	Excavation in Soft Soil (roadway preparation & cutting of earth for embankment.)	metre	34,989			
	Construction of Embankment with Material Deposited from Roadway Cutting (Construction of embankment with approved materials deposited at site from roadway cutting and graded and compacted)	cum	250			
	Construction of Embankment with Material Deposited from Roadway Cutting (Construction of embankment with approved materials excavated from drain and foundation of other structures graded and compacted)	cum	357			
	Construction of Embankment with Material Deposited from Roadway Cutting (Construction of embankment with approved materials deposited at the site from approved borrow sites and graded and compacted)	cum	1,954			
	Structure Excavation in Soft Soil (Earth work in soft soil excavation for structures, including setting out and removal of stumps and other deleterious matter.)	cum	456			
	Structure Excavation in Soft Soil (Earth work in soft soil excavation for structures, including construction of shoring and bracing and dressing of sides and bottom.)	cum	1,464			
	Structure Excavation in Soft Soil (Earth work in soft soil excavation for structures, utilising the remaining earth locally for road work.)	LS	1			
	Back filling behind structures with excavated material (with approved materials deposited at site from roadway cutting and graded and compacted)	cum	54			
	Back filling behind structures with excavated material with approved materials excavated from drain and foundation of other structures graded and compacted)	cum	36			
	Back filling behind structures with excavated material (with approved materials deposited at the site from approved borrow sites and graded and compacted)	cum	64			
	Forming Earth Slopes in Cut (Trimming slopes in cut sections, including all the earth works, etc.)	sqm				
	Forming Earth Slopes in Cut (Forming slopes in cut section, including all the earth works etc.)	sqm				
	Forming Earth Slopes in Cut (disposing excavated soil, etc.)	LS				
	Forming Earth Slopes in Embankment (Trimming slopes in embankment section, including all the earth works, etc.)	sqm				
	Forming Earth Slopes in Embankment (Forming slopes in embankment section, including all the earth works, etc.)	sqm				
	Forming Earth Slopes in Embankment (disposing excavated soil, etc.)	sqm				
	Hauling and Disposing excavated Soft Soil (Haulage cost by tipper, including loading and unloading)	cum	20,430			
	Hauling and Disposing excavated Soft Soil (Cost for compaction at disposal area)	cum	26,559			
3. Drainage						
	Wet Masonry Ditch RD-1 (including all the materials for onstruction of masonry side ditch)	metre	207			
	Wet Masonry Ditch RD-1 (including all excavations for the construction of masonry side ditch)	cum	6			
	Wet Masonry Ditch RD-1 (Construction of masonry side ditch, top width 0.3 m bottom width 0.1 m, depth 0.1 m)	metre	207			

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	Wet Masonry Ditch RD-2 (including all the materials for onstruction of masonry side ditch)	metre	1,697			
	Wet Masonry Ditch RD-2 (incluuing all excavations for the construction of masonry side ditch)	cum	560			
	Wet Masonry Ditch RD-2 (Construction of masonry side dich, top width 1.0 m bottom width 0.5 m, depth 0.5 m)	metre	1,697			
	Earth Ditch ED-1 (including materials for the construction of earth side ditch)	metre	13,445			
	Earth Ditch ED-1 (including excavation for onstruction of earth side ditch)	cum	773			
	Earth Ditch ED-1 (including slope and bottom forming for the construction of earth side ditch)	metre	13,445			
	Earth Ditch ED-1 (Construction of earth side dich, top width 0.5 m bottom width 0.167 m, depth 0.167 m)	metre	13,445			
	Earth Ditch ED-2 (including materials for the construction of earth side ditch)	metre				
	Earth Ditch ED-2 (including excavation for onstruction of earth side ditch)	cum				
	Earth Ditch ED-2 (including slope and bottom forming for the construction of earth side ditch)	metre				
	Earth Ditch ED-2 (Construction of earth side dich, top width 1.5 m bottom width 0.5 m, depth 0.15 m)	metre				
	Providing and Laying M250 (1:1:2) RCC Pipe 450 mm dia. (supply first class bedding of granular material in single row, including loading, trucking, and unloading, complete as per MRRD / MPW Standard Drawing DCP-05, DC-06)	metre				
	Providing and Laying M250 (1:1:2) RCC Pipe 450 mm dia. (preparation, including compaction of first class bedding of granular material in single row, complete as per MRRD / MPW Standard Drawing DCP-05, DC-06)	metre				
	Providing and Laying M250 (1:1:2) RCC Pipe 450 mm dia. (Laying reinforced cement concrete pipe for culverts on first class bedding of granular material in single row, complete as per MRRD / MPW Standard Drawing DCP-05, DC-06)	metre				
	Providing and Laying M250 (1:1:2) RCC Pipe 450 mm dia. (fix collar with cement mortar 1:3, protection works, but excluding concrete / masonry works in head walls / parapets, complete as per MRRD / MPW Standard Drawing DCP-05, DC-06)	cum				
	Inlet/Outlet Head Wall for RCC Pipe 450mm dia. (including all the all the related materials, transportation, etc., complete as per MRRD / MPW Standard Drawing DCP-02)	nos				
	Inlet/Outlet Head Wall for RCC Pipe 450mm dia. (including all the related preparation, excavation, forming and compaction works, etc., complete as per MRRD / MPW Standard Drawing DCP-02)	cum				
	Inlet/Outlet Head Wall for RCC Pipe 450mm dia. (Construction of wet masonry Head Wall, including all the related formworks, masonry works, etc , complete as per MRRD / MPW Standard Drawing DCP-02)	nos				
	Box-Culvert 1.0m x 1.0m (including all materials (concrete, mortar, timber, plywood, reinforcing bars, supporting steel, masonry stone, etc.), complete as per MRRD / MPW Standard Drawing DC-06, for the construction of Box Culvert	metre				
	Box-Culvert 1.0m x 1.0m (including all preparation works (excavation, forming, compaction, etc.), complete as per MRRD / MPW Standard Drawing DC-06) for the construction of Box Culvert	cum				
	Box-Culvert 1.0m x 1.0m (Construction of Box Culvert, inner dimension 1.0 m x 1.0m, including all the related works (concreting, formworks, shoring, etc.), complete as per MRRD / MPW Standard Drawing DC-06)	metre				
	Inlet/Outlet Head Wall for Box-Culvert 1.0m x 1.0m (including all the related materials (mortar, timber, plywood, masonry stone, concrete, etc.), complete as per MRRD / MPW Standard Drawing DC-06, for the construction of wet masonry Head Wall	nos				
	Inlet/Outlet Head Wall for Box-Culvert 1.0m x 1.0m (including all preparation works (excavation, forming, compaction, etc.), complete as per MRRD / MPW Standard Drawing DC-06, for the construction of wet masonry Head Wall	cum				
	Inlet/Outlet Head Wall for Box-Culvert 1.0m x 1.0m (Construction of wet masonry Head Wall, including all the related works (formworks, masonry, concreting, etc.), complete as per MRRD / MPW Standard Drawing DC-06)	nos				
	Box-Culvert 1.5m x 1.5m (including all the materials (concrete, mortar, timber, plywood, reinforcing bars, supporting steel, masonry stone, etc.), complete as per MRRD / MPW Standard Drawing DC-06)Construction of Box Culvert	metre				
	Box-Culvert 1.5m x 1.5m (including all preparation works (excavation, forming, compaction, etc.), complete as per MRRD / MPW Standard Drawing DC-06, for the construction of of Box Culvert	cum				

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	Box-Culvert 1.5m x 1.5m (Construction of Box Culvert, inner dimension 1.5 m x 1.5m, including all the related works (concreting, formworks, shoring, etc.), complete as per MRRD / MPW Standard Drawing DC-06	metre				
4. Structures (River Box Culvert, Retaining Wall, Wash, etc.)						
	River Crossing Box Culvert M200 RCC (1:1.5:3) in structures (including all the materials (concrete, mortar, timber, plywood, reinforcing bars, supporting steel, masonry stone, etc.), complete as per MRRD / MPW Standard Drawing DCV-09, DCV-11, for the construction of Twin Box Culvert	each				
	River Crossing Box Culvert M200 RCC (1:1.5:3) in structures (including all preparation works (excavation, forming, compaction, etc.) complete as per MRRD / MPW Standard Drawing DCV-09, DCV-11, for the construction of Twin Box Culvert	cum				
	River Crossing Box Culvert M200 RCC (1:1.5:3) in structures (Construction of Twin Box Culvert, inner dimension 3.0m x 2.5m length 7.2m, including all the related works (concreting, formworks, shoring, scaffolding, excavation, backfilling, etc.), complete as per MRRD / MPW Standard Drawing DCV-09, DCV-11	each				
	Wet Masonry Retaining Wall H=3.0~ 3.5 meter (including all the related materials (mortar, timber, plywood, masonry stone, etc.), complete as per MRRD / MPW Standard Drawing DRW-04, Profile 1, for the construction of wet masonry retaining wall	metre				
	Wet Masonry Retaining Wall H=3.0~ 3.5 meter (including all preparation works (excavation, forming, compaction, etc.) complete as per MRRD / MPW Standard Drawing DRW-04, Profile 1, for the construction of wet masonry retaining wall	cum				
	Wet Masonry Retaining Wall H=3.0~ 3.5 meter (Construction of wet masonry retaining wall, average height 3.0~3.5 m, including all the related works (formworks, masonry works, excavation, backfilling, etc.), complete as per MRRD / MPW Standard Drawing DRW-04, Profile 1	metre				
	Wet Masonry Retaining Wall H=2.5~ 3.0 meter (including all the related materials (mortar, timber, plywood, masonry stone, etc.), complete as per MRRD / MPW Standard Drawing DRW-04, Profile 1, for the construction of wet masonry retaining wall	metre				
	Wet Masonry Retaining Wall H=2.5~ 3.0 meter (including all preparation works (excavation, forming, compaction, etc.) complete as per MRRD / MPW Standard Drawing DRW-04, Profile 1, for the construction of wet masonry retaining wall	cum				
	Wet Masonry Retaining Wall H=2.5~ 3.0 meter (Construction of wet masonry retaining wall, average height 2.5~3.0 including all the related materials (mortar, timber, plywood, masonry stone, etc.), complete as per MRRD / MPW Standard Drawing DRW-04, Profile 1	metre				
	Wet Masonry Retaining Wall H=6.0~ 6.5 meter (including all the related materials (mortar, timber, plywood, masonry stone, etc.), complete as per MRRD / MPW Standard Drawing DRW-04, Profile 1, for the construction of wet masonry retaining wall	metre				
	Wet Masonry Retaining Wall H=6.0~ 6.5 meter (including all preparation works (excavation, forming, compaction, etc.) complete as per MRRD / MPW Standard Drawing DRW-04, Profile 1, for the construction of wet masonry retaining wall	cum				
	Wet Masonry Retaining Wall H=6.0~ 6.5 meter (Construction of wet masonry retaining wall, average height 6.0~6.5 m, including all the related works (formworks, masonry works, excavation, backfilling, etc.), complete as per MRRD / MPW Standard Drawing DRW-04, Profile 1	metre				
	Vehicle Protecting Blocks 0.6m x 0.5m x 0.5m (including all the related materials (mortar, timber, plywood, masonry stone, etc.) for the construction of wet masonry blocks (0.6m x 0.5m x 0.5m) along retaining wall	metre				
	Vehicle Protecting Blocks 0.6m x 0.5m x 0.5m (including all preparation works (excavation, forming, compaction, etc.) for the construction of wet masonry blocks (0.6m x 0.5m x 0.5m) along retaining wall	cum				
	Vehicle Protecting Blocks 0.6m x 0.5m x 0.5m (Construction of wet masonry blocks (0.6m x 0.5m x 0.5m) along retaining wall, including all the related works (formworks, masonry works, etc.)	metre				
	Wash B=6.0m (including all the materials (concrete, timber, plywood, reinforcing bars, stones, etc.) for the construction of wash, RCC M200, width 6.0 m, thickness 0.2 m, dry masonry foundataion (boulder), thickness 0.35 m	metre	100			
	Wash B=6.0m (including all preparation works (excavation, forming, compaction, etc.) for the construction of wash, RCC M200, width 6.0 m, thickness 0.2 m, dry masonry foundataion (boulder), thickness 0.35 m	cum	57			
	Wash B=6.0m (Construction of wash, RCC M200, width 6.0 m, thickness 0.2 m, dry masonry foundataion (boulder), thickness 0.35 m, including all the related works (concreting, formworks, excavation, backfilling, etc.))	metre	100			
	Wash B=4.0m (including all the materials (concrete, timber, plywood, reinforcing bars, stones, etc.) for the construction of wash, RCC M200, width 4.0 m, thickness 0.2 m, dry masonry foundataion (boulder), thickness 0.35 m	metre				

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Descriptions		Unit	Quantity	Unit Rate (US\$)	Amount (US\$)	Remarks
	Wash B=4.0m (including all preparation works (excavation, forming, compaction, etc.) for the construction of wash, RCC M200, width 4.0 m, thickness 0.2 m, dry masonry foundaition (boulder), thickness 0.35 m	cum				
	Wash B=4.0m (Construction of wash, RCC M200, width 4.0 m, thickness 0.2 m, dry masonry foundaition (boulder), thickness 0.35 m, including all the related works (concreting, formworks, excavation, backfilling, etc.)	metre				
	Riprap Shoulder Protection (Construction of shoulder protection along river using dry dry masonry,including all the materials)	cum				
	Riprap Shoulder Protection (Construction of shoulder protection along river using dry dry masonry,including all the preparartion works)	cum				
	Riprap Shoulder Protection (Construction of shoulder protection along river using dry dry masonry,including all the construction concreting, formworks, excavation, backfilling, etc.)	cum				
5. Pavement						
	Preparation and Surface Treatment of formation (Preparation and surface treatment of formation by removing mud and slurry)	sqm	58,540			
	Preparation and Surface Treatment of formation (Preparation and surface treatment of formation by watering to the extent needed to maintain the desired moisture content)	sqm	58,540			
	Preparation and Surface Treatment of formation (Preparation and surface treatment of formation by trimming to the required line, grade, profile and rolling)	sqm	58,540			
	Construction of Hard Shoulder (compacting using pedestrian roller with vibration, 200 mm thick, excluding prime coat, complete as per MRRD / MPW Standard Drawing DR-08)	cum	6,002			
	Construction of Hard Shoulder (trimming of excess material from pavement area, 200 mm thick, excluding prime coat, complete as per MRRD / MPW Standard Drawing DR-08)	cum	6,002			
	Sand Aggregate Sub-Base (Construction of granular sub-base by providing coarse graded material, complete as per MRRD / MPW Standard Drawing DR-08)	cum	7,554			
	Sand Aggregate Sub-Base (Construction of granular sub-base by spreading in uniform layers with motor grader on prepared surface, complete as per MRRD / MPW Standard Drawing DR-08)	cum	7,554			
	Sand Aggregate Sub-Base (Construction of granular sub-base by mixing, and compacting with vibratory roller to achieve the desired density (4 day soaked CBR > 50%, at 98% MDD), complete as per MRRD / MPW Standard Drawing DR-08)	cum	7,554			
	Sand Aggregate Road Base Course (Construction of granular base by providing coarse graded material (80% graded crushed aggregate: 20% sand), complete as per MRRD / MPW Standard Drawing DR-08)	cum	5,666			
	Sand Aggregate Road Base Course (Construction of granular base by spreading in uniform layers with motor grader on prepared surface, complete as per MRRD / MPW Standard Drawing DR-08)	cum	5,666			
	Sand Aggregate Road Base Course (Construction of granular base by mixing, and compacting with vibratory roller to achieve the desired density (4 day soaked CBR > 80% at MDD), complete as per MRRD / MPW Standard Drawing DR-08)	cum	5,666			
	Inverted Filler Drains (preparation of aggregate sub surface for inverted filler drain 500 mm x 2000 mm, composing single sized aggregate (60 mm) mixed with sand, complete as per MRRD / MPW Standard Drawing DR-08)	metre				
	Inverted Filler Drains (Construction of aggregate sub surface drain 500 mm x 2000 mm, composing single sized aggregate (60 mm) mixed with sand, complete as per MRRD / MPW Standard Drawing DR-08)	metre				
	Prime coat (Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 1.02 kg/sqm using mechanical / manual means.)	sqm	48,580			
	Prime coat (Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 1.02 kg/sqm using mechanical / manual means.)	sqm	48,580			
	Double Bituminous Surface Treatment (Providing surface dressing as wearing course in double coats using crushed stone aggregates of specified size on a layer of bituminous binder laid on prepared surface and rolling, 14 mm cubical stone chips and 1.4 kg of bitumen per sqm for first layer, and 10 mm cubical stone chips and 1.0 kg bitumen per sqm for second layer, , complete as per MRRD / MPW Standard Drawing DR-08)	sqm	40,460			

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Descriptions		Unit	Quantity	Unit Rate (US\$)	Amount (US\$)	Remarks
	Double Bituminous Surface Treatment (Laying surface dressing as wearing course in double coats using crushed stone aggregates of specified size on a layer of bituminous binder laid on prepared surface and rolling, 14 mm cubical stone chips and 1.4 kg of bitumen per sqm for first layer, and 10 mm cubical stone chips and 1.0 kg bitumen per sqm for second layer, , complete as per MRRD / MPW Standard Drawing DR-08)	sqm	40,460			
6. Testings						
	Materials and Equipment Testings (Inspect and test all materials and equipment to be applied in the works to maintain the desired quality and standards and performance to the required quality criteria)	LS	1			
7. Contractors Insurances						
	Contractor Liability Insurance (Contractor Insurance including workers' compensation, plant, equipment, etc.)	LS	1			