

## Lot 2-2

Project No.	Project Name	District	Village	Facilities		
GA-B-R-02	Upgrading of feeder & village road in Khushgumbad	Behsud	Khushgumbad	DBST Road	6.51 km	
GA-B-R-03	Upgrading of village road from Khushgumbad To Nahr-e-Shahi area	Behsud	Khushgumbad	DBST Road	1.46 km	
GA-B-RB-04	Construction of Culvert	Behsud	Khushgumbad	Culvert	1 No	
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	2.1			
2. Earthworks						
	Excavation in Soft Soil (Excavation from drain and foundation of other structures)	cum	1,075			
	Excavation in Soft Soil (Excavation from roadway cutting)	cum	1,120			
	Excavation in Soft Soil (Excavation from approved borrow sites including loading in truck for carrying of cut earth to embankment site.)	cum	8,486			
	Excavation in Soft Soil (roadway preparation & cutting of earth for embankment.)	metre	16,609			
	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	110			
	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	39			
	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	165			
	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	1,130			
	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	1,463			
	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	107			
	Back filling behind structures with excavated material with approved materials excavated from drain and foundation of other structures graded and compacted)	cum	73			
	Back filling behind structures with excavated material (with approved materials deposited at the site from approved borrow sites and graded and compacted)	cum	122			
	Forming Earth Slopes in Cut (Trimming slopes in cut sections, including all the earth works, etc.)	sqm	172			
	Forming Earth Slopes in Cut (Forming slopes in cut section, including all the earth works etc.)	sqm	172			
	Forming Earth Slopes in Cut (disposing excavated soil, etc.)	LS	1			
	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	11,170			
	Hauling and Disposing excavated Soft Soil (Cost for compaction at disposal area)	cum	14,521			
3. Drainage						
	Wet Masonry Ditch RD-1 (including all the materials for onstruction of masonry side ditch)	metre	5,768			
	Wet Masonry Ditch RD-1 (including all excavations for the construction of masonry side ditch)	cum	173			

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	<b>Wet Masonry Ditch RD-1</b> (Construction of masonry side ditch, top width 0.3 m bottom width 0.1 m, depth 0.1 m)	metre	5,768			
	<b>Wet Masonry Ditch RD-2</b> (including all the materials for onstruction of masonry side ditch)	metre	61			
	<b>Wet Masonry Ditch RD-2</b> (incluuing all excavations for the construction of masonry side ditch)	cum	20			
	<b>Wet Masonry Ditch RD-2</b> (Construction of masonry side ditch, top width 1.0 m bottom width 0.5 m, depth 0.5 m)	metre	61			
	<b>Earth Ditch ED-1</b> (including materials for the construction of earth side ditch)	metre	2,571			
	<b>Earth Ditch ED-1</b> (including excavation for onstruction of earth side ditch)	cum	148			
	<b>Earth Ditch ED-1</b> (including slope and bottom forming for the construction of earth side ditch)	metre	2,571			
	<b>Earth Ditch ED-1</b> (Construction of earth side ditch, top width 0.5 m bottom width 0.167 m, depth 0.167 m)	metre	2,571			
	<b>Earth Ditch ED-2</b> (including materials for the construction of earth side ditch)	metre	167			
	<b>Earth Ditch ED-2</b> (including excavation for onstruction of earth side ditch)	cum	51			
	<b>Earth Ditch ED-2</b> (including slope and bottom forming for the construction of earth side ditch)	metre	167			
	<b>Earth Ditch ED-2</b> (Construction of earth side ditch, top width 1.5 m bottom width 0.5 m, depth 0.15 m)	metre	167			
	<b>Providing and Laying M250 (1:1:2) RCC Pipe 450 mm dia.</b> (supply first class bedding of granular material in single row, inclduing loading, trucking, and unloading, complete as per MRRD / MPW Standard Drawing DCP-05, DC-06)	metre				
	<b>Providing and Laying M250 (1:1:2) RCC Pipe 450 mm dia.</b> (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				
	<b>Providing and Laying M250 (1:1:2) RCC Pipe 450 mm dia.</b> (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				
	<b>Providing and Laying M250 (1:1:2) RCC Pipe 450 mm dia.</b> (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				
	<b>Inlet/Outlet Head Wall for RCC Pipe 450mm dia.</b> (including all the all the related materials, transportation, etc., complete as per MRRD / MPW Standard Drawing DCP-02)	nos				
	<b>Inlet/Outlet Head Wall for RCC Pipe 450mm dia.</b> (including all the related preparation, excavation, forming and compaction works, etc., complete as per MRRD / MPW Standard Drawing DCP-02)	cum				
	<b>Inlet/Outlet Head Wall for RCC Pipe 450mm dia.</b> (Construction of wet masonry Head Wall, including all the related formworks, masonry works, etc , complete as per MRRD / MPW Standard Drawing DCP-02)	nos				
	<b>Box-Culvert 1.0m x 1.0m</b> (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	26.4			
	<b>Box-Culvert 1.0m x 1.0m</b> (including all preparation works (excavation, forming, compaction, etc.), complete as per MRRD / MPW Standard Drawing DC-06) for the construction of Box Culvert	cum	17.7			
	<b>Box-Culvert 1.0m x 1.0m</b> (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	26.4			
	<b>Inlet/Outlet Head Wall for Box-Culvert 1.0m x 1.0m</b> (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	8			
	<b>Inlet/Outlet Head Wall for Box-Culvert 1.0m x 1.0m</b> (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	7			

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	<b>Inlet/Outlet Head Wall for Box-Culvert 1.0m x 1.0m</b> (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	8			
	<b>Box-Culvert 1.5m x 1.5m</b> (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				
	<b>Box-Culvert 1.5m x 1.5m</b> (including all preparation works (excavation, forming, compaction, etc.), complete as per MRRD / MPW Standard Drawing DC-06, for the construction of Box Culvert	cum				
	<b>Box-Culvert 1.5m x 1.5m</b> (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				
<b>4. Structures (River Box Culvert, Retaining Wall, Wash, etc.)</b>						
	<b>River Crossing Box Culvert M200 RCC (1:1.5:3) in structures</b> (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	1			
	<b>River Crossing Box Culvert M200 RCC (1:1.5:3) in structures</b> (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	1			
	<b>River Crossing Box Culvert M200 RCC (1:1.5:3) in structures</b> (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	1			
	<b>Wet Masonry Retaining Wall H=3.0~ 3.5 meter</b> (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				
	<b>Wet Masonry Retaining Wall H=3.0~ 3.5 meter</b> (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				
	<b>Wet Masonry Retaining Wall H=3.0~ 3.5 meter</b> (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				
	<b>Wet Masonry Retaining Wall H=2.5~ 3.0 meter</b> (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	41			
	<b>Wet Masonry Retaining Wall H=2.5~ 3.0 meter</b> (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	20			
	<b>Wet Masonry Retaining Wall H=2.5~ 3.0 meter</b> (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	41			
	<b>Wet Masonry Retaining Wall H=6.0~ 6.5 meter</b> (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				
	<b>Wet Masonry Retaining Wall H=6.0~ 6.5 meter</b> (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				
	<b>Wet Masonry Retaining Wall H=6.0~ 6.5 meter</b> (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				
	<b>Vehicle Protecting Blocks 0.6m x 0.5m x 0.5m</b> (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	31			
	<b>Vehicle Protecting Blocks 0.6m x 0.5m x 0.5m</b> (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	3			

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Descriptions		Unit	Quantity	Unit Rate (US\$)	Amount (US\$)	Remarks
	<b>Vehicle Protecting Blocks 0.6m x 0.5m x 0.5m</b> (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	31			
	<b>Wash B=6.0m</b> (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 foundaion (boulder), thickness 0.35 m	metre				
	<b>Wash B=6.0m</b> (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 foundaion (boulder), thickness 0.35 m	cum				
	<b>Wash B=6.0m</b> (Construction of wash, RCC M200, width 6.0 m, thickness 0.2 m, dry masonry foundaion (boulder), thickness 0.35 m, including all the related works (concreting, formworks, excavation, backfilling, etc.))	metre				
	<b>Wash B=4.0m</b> (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 foundaion (boulder), thickness 0.35 m	metre				
	<b>Wash B=4.0m</b> (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 foundaion (boulder), thickness 0.35 m	cum				
	<b>Wash B=4.0m</b> (Construction of wash, RCC M200, width 4.0 m, thickness 0.2 m, dry masonry foundaion (boulder), thickness 0.35 m, including all the related works (concreting, formworks, excavation, backfilling, etc.)	metre				
	<b>Riprap Shoulder Protection</b> (Construction of shoulder protection along river using dry dry masonry,including all the materials)	cum				
	<b>Riprap Shoulder Protection</b> (Construction of shoulder protection along river using dry dry masonry,including all the preparation works)	cum				
	<b>Riprap Shoulder Protection</b> (Construction of shoulder protection along river using dry dry masonry,including all the construction concreting, formworks, excavation, backfilling, etc.)	cum				
5. Pavement						
	<b>Preparation and Surface Treatment of formation</b> (Preparation and surface treatment of formation by removing mud and slurry)	sqm	31,791			
	<b>Preparation and Surface Treatment of formation</b> (Preparation and surface treatment of formation by watering to the extent needed to maintain the desired moisture content)	sqm	31,791			
	<b>Preparation and Surface Treatment of formation</b> (Preparation and surface treatment of formation by trimming to the required line, grade, profile and rolling)	sqm	31,791			
	<b>Construction of Hard Shoulder</b> (compacting using pedestrian roller with vibration, 200 mm thick, excluding prime coat, complete as per MRRD / MPW Standard Drawing DR-08)	cum	119			
	<b>Construction of Hard Shoulder</b> (trimming of excess material from pavement area, 200 mm thick, excluding prime coat, complete as per MRRD / MPW Standard Drawing DR-08)	cum	119			
	<b>Sand Aggregate Sub-Base</b> (Construction of granular sub-base by providing coarse graded material, complete as per MRRD / MPW Standard Drawing DR-08)	cum	6,282			
	<b>Sand Aggregate Sub-Base</b> (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	6,282			
	<b>Sand Aggregate Sub-Base</b> (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	6,282			
	<b>Sand Aggregate Road Base Course</b> (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	4,712			
	<b>Sand Aggregate Road Base Course</b> (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	4,712			
	<b>Sand Aggregate Road Base Course</b> (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	4,712			

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	<b>Inverted Filler Drains</b> (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	33			
	<b>Inverted Filler Drains</b> (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	33			
	<b>Prime coat</b> (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	31,680			
	<b>Prime coat</b> (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	31,680			
	<b>Double Bituminous Surface Treatment</b> (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	31,450			