Bill of Quantities (BOQ)

Construction of Simalkhet Khola Bridge(1*25m) along Baddichaur Gutu Karnali section of Madan Bhandari Highway, Surkhet

IFB No.: MBHPD/082/83-03-Re

Provisional Sum					
SL. No.	**Item Description**	**Unit**	**Quantity**	**Unit Rate (NPR)**	**Amount (NPR)**
PS.1	Relocation, replacement, provision and safeguard of services and/or repairing for existing infrastructure (electric poles, telephone wires, irrigation canals, water supply pipes, temple, foot staircase, foot trail etc.) and unforeseen works as required and instructed by Engineer [SS-100].	PS	1.00	5,00,000.00 Five lakh rupees only.	5,00,000.00 Five lakh rupees only.
PS.2	Implementation of environmental and Social Management Plans and Monitoring as per monitoring plan,OHS (Occupational Health and Safety) etc.	PS	1.00	2,00,000.00 Two lakh rupees only.	2,00,000.00 Two lakh rupees only.
	Total provisional sums				7,00,000.00 Seven lakh rupees only.

General Items						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.1	Insurance for the loss or damage to works, plant, material, equipment, property, Contractor's employees and labor, Employer's and Consultants staff personnel injury or death and third-party property and persons during the construction period and up to the end of defects liability period as per the condition of contract [SP]	Job	1.00			
1.2	Provide, operate and maintain Quality control laboratory including Quality control engineer, Lab technician, Lab boy, laboratory building, laboratory equipment, laboratory tests, furniture, furnishings, accessories and consumables for both field testing facilities and off-site test including transportation facilities as per Contract Documents and instruction of engineer all complete. [SS/SP-500]	LS	1.00			

General Items						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.3	Provide and installation of project information board of size 1.80 m X 1.2 m along with iron posts including excavation, concreting, backfilling etc. all complete as per drawing and Technical Specifications & Instruction of the Engineer. [SS/SP-110]	Nos	2.00			
1.4	Providing and installation of two number of permanent Bridge Board including post and foundation according to Traffic Sign Manual and as instructed by the Engineer (SS/SP 3100).	Nos	2.00			
1.5	Providing and installation of additional traffic safety measures including necessary traffic signs, cones and flagments, construction and maintenance of temporary traffic diversion and safety as per Technical Specifications and direction of the Engineer (SS/SP- 100)	LS	1.00			

Foundation Works						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
2.1	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable Material as directed by Engineer. (SS/SP 200)	Sqm	275.00			
2.2	Earthwork in excavation of foundation of structure in all types of soil including construction of shoring and bracing, removal of stumps and other deleterius matterand backfilling with approved material, relevent lift and afe disposal all complete per as specifications and drawings and instruction of Engineers. SS/SP 900)	Cum	2,105.58			
2.3	Providing and laying of hand pack stone soling with 200mm thick stones and packing with smalled stone on prepared surface as per Drawing and Technical Specifications.[SS/SP-1000]	Cum	41.30			

Foundation Works						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
2.4	Providing and placing machine mixed Cement Concrete in M15/40 for PCC works including form works (F1 finish), compaction, curing, testing, all complete as per design drawings, technical specification and to the satisfaction of Engineer. (SS/SP-2000)	Cum	20.65			
2.5	Providing and placing machine mixed Cement Concrete in M35/20 cast insitu for RCC works including form works (F3 finish) and staging, compaction, curing, testing, all complete as per design drawings, technical specification and to the satisfaction of Engineer. (SS/SP 2000)	Cum	351.02			
2.6	Providing, transporting, cutting, bending, placing of HYSD, TMT reinforcement bars (Fe 500) in position as shown in the drawings and binding by wires all complete as per specification & directed by Engineer. (SS/SP-2000)	MT	45.27			

Substructure Works						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
3.1	Providing and placing machine mixed Cement Concrete in M35/20 cast insitu for RCC works including form works (F3 finish) and staging, compaction, curing, testing, all complete, all complete as per design drawings, technical specification and to the satisfaction of Engineer. (SS/SP 2000)	Cum	335.98			
3.2	Providing, transporting, cutting, bending, placing of HYSD, TMT reinforcement bars (Fe 500) in position as shown in the drawings and binding by wires all complete as per specification & directed by Engineer. (SS/SP-2000)	MT	34.91			
3.3	Providing, transporting, laying and fixing Filter Fabrics (Geo-Textile) in position including stretching, interposing between structural surface and pervious back fill all complete as per drawings and specification & directed by Enginner (SS/SP-2400)	Sqm	184.36			

Substructure Works						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
3.4	Providing and laying of Filter media with common fill material to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification. (SS/SP-900)	Cum	110.62			

Superstructure Works						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
4.1	Providing and placing machine mixed Cement Concrete in M35/20 cast insitu for RCC works including form works (F3 finish) and staging, compaction, curing, testing, all complete, all complete as per design drawings, technical specification and to the satisfaction of Engineer. (SS/SP 2000)	Cum	162.00			
4.2	Providing, transporting, cutting, bending, placing of HYSD, TMT reinforcement bars (Fe 500) in position as shown in the drawings and binding by wires all complete as per specification & directed by Engineer. (SS/SP-2000)	MT	31.90			
4.3	Providing and Laying of Slab seal expansion joint Catering to Maximum horizontal movement upto 70 mm, complete as per drawing and specification all complete(Slab seal) (SS/SP)1901	RM	22.00			
4.4	Providing and installing elastometric bearing (Neoprene) including all necessary axillary and incidental works etc all complete as per drawings (SS/SP 1900)	Nos	8.00			
4.5	Providing, fencing and erecting 75 mm dia GI pipe railing in 3 rows on precast M 20 grade RCC vertical posts 1.8 metres high (1.2 m above GL) with 3 holes 75 mm dia for pipe, fixed 2 metres center to, painting on vertical post all complete as per Drawing and Technical Specifications. (3105)	RM	153.00			

Superstructure Works						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
4.6	Supply and fixing of 100 mm GI pipe, 2m long Medium Class for drainage spouts as per drawings all complete (SS/SP 3100)	Nos	10.00			

Approach Road Works						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
5.1	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable Material as directed by Engineer. (SS/SP 200)	Sqm	1,100.00			
5.2	Earthwork in excavation of foundation of structure in all types of soil including construction of shoring and bracing, removal of stumps and other deleterius matterand backfilling with approved material, relevent lift and afe disposal all complete per as specifications and drawings and instruction of Engineers. SS/SP 900)	Cum	284.36			
5.3	Roadway excavation in all types of soil and rock including removal of stumps and other deleterious matter with all lift and leads as per Drawing and Instruction of the Engineer all complete. [SS-905]	Cum	4,440.11			
5.4	Providing, laying, spreading, watering and compacting embankment to required density with suitable material in layers not exceeding 150mm including haulage as per drawing and Technical Specifications Instruction of the Engineer. [SS-909/910]	Cum	1,491.10			
5.5	Providing transporting, laying, spreading, watering, levelling and mixing at OMC and compacting to achieve the desired density by mechanical means of natural sand gravel subbase works (grading-I as per table 12.1 of standard specification) at carriage way shoulders and footpath with all lead and lift all complete. (SS/SP-1200)	Cum	140.00			

Approach Road Works						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
5.6	Providing, transporting and laying Crushed stone base by mix in place method on a prepared surface, spreading and mixing, watering and compacting to form a layer of Base course (grading as per table 12.8 of standard specification for 37.5 mm nominal size) with all lead and lift all complete as per Drawing and Technical Specifications & directed by Engineer. (SS/SP-1200)	Cum	105.00			
5.7	Providing and applying prime coat with MC30/70 Hot Bitumen (including cutter) on prepared surface of granular base including cleaning of road surface and spraying by mechanical means as per direction of Engineer all complete. (SS/SP-1300)	Ltr	630.00			
5.8	Providing, transporting and applying tack coat with hot Bitumen at specified rate on the prepared non-bituminous/bituminous surfaces including cleaning the road surface using wire, brushes, broom etc. before applying tack coat as per Technical Specifications & directed by Engineer. (SS/SP-1300)	Ltr	504.35			
5.9	Providing and laying close-graded premix carpet of 20 mm thickness composed of 13.2 mm to 0.09 mm aggregates as wearing course on a previously prepared base including mixing in a suitable plant as per drawing and Technical Specifications . (SS/SP-1300)	Cum	18.34			
5.10	Providing and installation of 150mm * 150mm, 1.5m long M20/20 delineators (roadway indicators, hazard markers, object markers), 80-100cm high above ground level, shall be bedded into ground with concrete foundation of grade M10/40, painted black and white in 20cm wide strips, buried or pressed into the ground and conforming to the drawings and Technical Specifications. (SS/SP-1500)	Nos	40.00			
5.11	Providing, transporting and placing plum concrete with 60% M 15/40 concrete and 40% boulders/ stones with 100mm dia HDPE pipes for weep holes, using concrete mixer machine & vibrator including formwork (F1 finish), compaction, curing all complete as per drawings and specification & directed by Engineer. (SS-2400, 3100)	Cum	137.34			
5.12	Providing and laying of hand pack stone soling with 200mm thick stones and packing with smalled stone on prepared surface as per Drawing and Technical Specifications.	Cum	56.67			

Approach Road Works						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
5.13	Providing, transporting and Placing machine mixed plain cement concrete (PCC) M20/20 including formwork, compaction, curing all complete as per drawings and specification & instruction of Engineer. [SS-2000]	Cum	54.83			
5.14	Providing, transporting and Laying of Machine Made Gabion boxes / mattresses with diapharagms including rolling, cutting, weaving placing and lying as per specification. Including Providing and filling stone / boulder in gabion boxes / mattress etc. including dressing, beding, bonding and all transportation as per Specification. Heavy Zinc Coated Hexagonal mesh type 100mmx120mm using hexagonal Mesh wire -3mm & selvedge wire -3.9mm and Binding wire 2.4mm, Box of different sizes as per requirements. (SS/SP-2400)	Cum	200.00			
5.15	Providing, transporting, laying and fixing Filter Fabrics (Geo-Textile) in position including stretching, interposing between structural surface and pervious back fill all complete as per drawings and specification & directed by Enginner (SS/SP-2400)	Sqm	110.00			
5.16	Providing and Painting two coats after filling the surface with synthetic enamel paint in all shades on concrete/ plaster surfaces as per Drawing and Technical Specifications. (SS/SP-1500)	Sqm	71.65			

River Training and Protection Works						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
6.1	Earthwork in excavation of foundation of structure in all types of soil including construction of shoring and bracing, removal of stumps and other deleterius matterand backfilling with approved material, relevent lift and afe disposal all complete per as specifications and drawings and instruction of Engineers. SS/SP 900)	Cum	495.00			

River Training and Protection Works						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
6.2	Providing, transporting and Laying of Machine Made Gabion boxes / mattresses with diapharagms including rolling, cutting, weaving placing and lying as per specification. Including Providing and filling stone / boulder in gabion boxes / mattress etc. including dressing, beding, bonding and all transportation as per Specification. Heavy Zinc Coated Hexagonal mesh type 100mmx120mm using hexagonal Mesh wire -3mm & selvedge wire -3.9mm and Binding wire 2.4mm, Box of different sizes as per requirements. (SS/SP-2400)	Cum	765.00			
6.3	Providing and laying of hand pack stone soling with 200mm thick stones and packing with smalled stone on prepared surface as per Drawing and Technical Specifications.[SS/SP-1000]	Cum	13.18			
6.4	Providing, transporting and placing plum concrete with 60% M 15/40 concrete and 40% boulders/ stones with 100mm dia HDPE pipes for weep holes, using concrete mixer machine & vibrator including formwork (F1 finish), compaction, curing all complete as per drawings and specification & directed by Engineer. (SS-2400, 3100)	Cum	704.00			
6.5	Providing, transporting, laying and fixing Filter Fabrics (Geo-Textile) in position including stretching, interposing between structural surface and pervious back fill all complete as per drawings and specification & directed by Enginner (SS/SP-2400)	Sqm	381.50			

Total Item Price	
VAT (13.00%)	
Grand Total	