Bill of Quantities (BOQ)

Construction and Upgradation of Rudrabeni Aslewa Thulolumpek Road (Ch:- 3+900 to 5+601)

IFB No.: 801055212/IFB/01-2083-84

Provisional Sum					
SL. No.	**Item Description**	**Unit**	**Quantity**	**Unit Rate (NPR)**	**Amount (NPR)**
PS.1	Carrying out different laboratory tests of construction material like cement, rod, bricks, sand, aggregate and concrete cubes, Bitumen, field density etc during construction as per specification and instruction and others work not included in estimate	PS	1.00	1,50,000.00 One lakh fifty thousand rupees only.	1,50,000.00 One lakh fifty thousand rupees only.
	Total provisional sums				1,50,000.00 One lakh fifty thousand rupees only.

Road construction works CPV: 45233120-6 - Road construction works						
SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.1	Insurance for loss of/or damage to works, plant, material, equipment, property and personnel injury or death and third party as per contract data including mobilization, demobilization expenses for manpower, equipment and performance bond commision (Cl. 13 of CoC)	LS	1.00			
1.2	Provide and installation of project information board of size 1.80 mx1.2 m along with iron posts including excavation, concreting, backfilling etc all complete as per DoR Standard Specification for Road and Bridge Works (SSRBW) July 2001,Section-108	Nos	1.00			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.3	Clearing and Grubbing Road Land ., 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 to be used or auctioned, up to a lead of 30 meters including removal and disposal of top organic soil not exceeding 150 mm in thickness., By Mechanical Means, In area of light jungle (less than 15 number per 100 sqm)	Sqm	1,800.00			
1.4	Haulage of Surplus Materials by Tipper including cost of loading, Unloading and Stacking 1000 meters and above as per Direction of Engineer.	Cum	1,770.12			
1.5	Clearance of landslides and Excavated Material in soil and ordinary rock by machine and disposal of same on the valley side or loaded to a truck to disposal at a safe distance and place all compelte as pre Engineer's Instruction.	cum	260.00			
1.6	Roadway Excavation in all types of soil and ordinary/hard rock by Mechanical Means wih rock breakers as per drawing and technical specification, including removal of stumps and other deleterious matter, with all lifts and lead as per Drawing and instruction of the Engineer. [Spec. cl. No: 905]	cum	2,821.25			
1.7	Earth work in excavation of foundation of structures, including construction of shoring and bracing,removal of stumps and other deleterious matter and backfilling with approved Material as per Drawing and Technical Specifications in all types of soil upto 3m depth. [Spec. cl. No: 907]	cum	1,325.59			
1.8	Providing,laying and levelling of hand packed Stone soling with 150 to 200mm thick stones and packing with smaller stone on prepared surface as per Drawing and Technical Specifications and Engineer's Instruction. [Spec. cl. No: 1003,1005]	cum	282.99			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.9	Providing and laying of Plain /Reinforced Cement Concrete in foundation Including formwork complete as per Drawing and Technical Specifications : PCC Grade M 15 (SS/SP-2000)	cum	109.16			
1.10	Providing and placing Plum concrete (Boulder mixed concrete) with 60% M 15/40 concrete and 40% boulders/stones Lead 30m, lift 1.5m, using concrete mixer and vibrator including formworks, 110mm dia PN6 HDPE Pipe for Weep hole ,curing, testing and backfilling etc. all complete as per technical specification and drawing and Engineer's instructions. [Spec.Cl.No.2421]	cum	1,273.65			
1.11	Providing and Laying Reinforced Cement Concrete NP3 Flush jointed pipe 900 mm dia (internal) for culverts including fixing with cement mortar 1:2 as per Drawing and Technical Specifications. (SS/SP-701)	Rm	15.00			
1.12	Providing and Laying Reinforced Cement Concrete NP3 Flush jointed pipe 450 mm dia (internal) for culverts including fixing with cement mortar 1:2 as per Drawing and Technical Specifications. (SS/SP-701)	Rm	7.50			
1.13	Providing and Laying Reinforced Cement Concrete NP3 Flush jointed pipe 600 mm dia (internal) for culverts including fixing with cement mortar 1:2 as per Drawing and Technical Specifications. (SS/SP-701)	Rm	42.50			
1.14	Providing, assmebling and laying mechanically woven heavily zinc coated, double twisted 100 mm X 120 mm hexagonal mesh type gabion structure (mesh wire 3 mm, selvage wire 3.9 mm, lacing wire 2.4 mm) for retaining earth including stretching; forming compartments; tying the sides and diaphragms with binding wire in each mesh; tying with bracing wires and tie wires; filling stone/boulder in gabion boxes/mattress including dressing, bedding, bonding and tying down the lid all complete as per specifications. [2 X 1 X 1 m (11 sqm) / 2 Cum]	Cum	30.00			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.15	Providing, assmebling and laying mechanically woven heavily zinc coated, double twisted 100 mm X 120 mm hexagonal mesh type gabion structure (mesh wire 3 mm, selvage wire 3.9 mm, lacing wire 2.4 mm) for retaining earth including stretching; forming compartments; tying the sides and diaphragms with binding wire in each mesh; tying with bracing wires and tie wires; filling stone/boulder in gabion boxes/mattress including dressing, bedding, bonding and tying down the lid all complete as per specifications. [1.5 X 1 X 1 m (8 sqm) / 1.5 Cum]	Cum	15.00			
1.16	Preparation of subgrade by compacting original ground supporting sub-grade, loosening of the ground upto a level of 500 mm below the sub-grade level, watered, graded and compacted in layers as per drawwings and technical specifications. [Spec. cl. No: 1003,1005]	sqm	8,046.50			
1.17	Providing,laying, spreading, levelling, watering of granular sub-base on prepared surface, mixing at OMC, and compacting to achieve the desired density, all complete as per Drawing and Technical Specifications and Engineer's Instructions.By mechanical means. [Spec. cl. No: 1201]	cum	1,206.97			
1.18	Providing, laying, levelling Crusher Run Macadam on a prepared surface, spreading and mixing , watering and compacting to form a layer of base course to achieve desired density (max size 45mm) as per Drawing and Technical Specifications and Engineer's Instruction.[Spec. cl. No: 1204]	cum	680.10			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.19	Providing and applying prime coat with hot bitumen MC 30/70 (including cutter)on prepared surface of granular base including cleaning, brooming, brushing of road surface and spraying at specified rate by mechanical means as per Technical specification. [Spec. cl. No: 1302,1302]	ltr.	4,080.60			
1.20	Providing and applying tack coat with VG10 hot Bitumen at specified rate on the prepared non-bituminous surfaces including cleaning, brushing, brooming etc. all complete as per Technical Speciation and Engineer's Instruction. [Spec. cl. No: 1302]	ltr.	2,267.00			
1.21	Bituminous Concrete / Asphalt Concrete, Providing and laying Bituminous concrete/ Asphalt concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler as per Drawing and Technical Specifications, Grading - II-13 mm (Nominal Size), In case BC is laid over freshly laid tack coat	CUM	226.70			
1.22	Providing and placing machine mixed Plain Cement Concrete M 25/20 in Foundation and footing etc. including installation of formworks, compaction, curing, testing and lead 30m etc. all complete as per Drawing and Technical Specifications and Engineer's instruction. [Spec. cl. No: 2000]	cum	726.50			
1.23	Laying of 125 micron polyethene sheet over prepared sub-base to cater for Rigid Pavement as per drawings and technical Specifications	Sqm	3,526.25			

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SL. No.	**Item Description**	**Unit**	**Quantity**	**Bidder's Rate (NPR)**	**Bidder's Rate (in words)**	**Total Amount (NPR)**
1.24	Providing,laying, fitting and placing un-coated HYSD reinforcement Fe500 including cutting, binding, bending etc. all complete in foundation/sub-structure as per drawing and technical specification. [Spec. cl. No: 2000]. It includes procuring steel, it's bending, placing, binding and fixing in position as shown on the drawings and as directed by the Engineer. It also includes all devices for keeping reinforcement in approved position and jointing as per approved method with due allowance for wastage, overlaps, spacer bars and annealed steel wire for binding; as per specified and directed by the Engineer.	ton	19.22			
1.25	Supplying, fabricating, fixing in place & fitting of MS Angle, MS black pipe, MS square pipe, MS Rectangular pipe for Metal works for Drain Cover including welding and Fabrication per drawing, specification and instruction all complete	K.G	191.40			

Total Item Price	
VAT (13.00%)	
Grand Total	