

Government of Lumbini Province
Ministry of Physical Infrastructure Development
Rural Connectivity Improvement Project - Additional Financing (RCIP-AF)
Project Implementation Unit Unit(PIU)
Shankharnagar Rupandehi
BoQ

Contract No. :- RCIP-AF/Lumbini/Works/OCB-26/2083/84

Location :- Rukum East

Project Road: Baluwa Naigadpul Jamabagar Tribeni Road (Upgrading and New Track opening)

Road Length: 13.15 Km

S.N.	Item No.	Description of Item	Unit	Quantity	Rate (NRs)		Amount	Remarks
					Rate Figure	In Words		
	A	PROVISIONAL SUM						
1	A.1	Carrying out all additional tests for materials and works in laboratory (to be accepted by the project Manager) and in field as required and instructed by the Project Manager as per GCC Clause No. 42.1 inclusive of sampling, transportation and procedural activities required for any specified testing.(DoR SS-510)	PS	1	200000.00	Two Hundred Thousand Only	200,000.00	
2	A.2	Relocation, diverting, reconnecting, reinstalling and/or reinstatement including making good of any damages or short comings caused by the construction procedure and activities of any public and private utilities and services along with shifting and rehabilitation of Electric Poles, Water Supply Pipelines, irrigation canals etc as instructed by the Project Manager and according to the rules and regulations of the Service Providers.(DoR SS-111)	PS	1	4000000.00	Four Million Only	4,000,000.00	
3	A.3	Carry out and Emergency maintenace works during PBM Period as per specification and instruction of the Project Manager.	PS	1	10000000.00	Ten Million Only	10,000,000.00	
4	A.4	Implement and maintain all environmental mitigation measures as specified in the approved Environmental Management Plan (EMP) as directed by the Project Manager	PS	1	5000000.00	Five Million Only	5,000,000.00	
5	A.5	Provide and maintain the Insurance for the completed construction assets. This policy shall take effect immediately upon the issuance of the Taking-Over Certificate and remain in force until the issuance of the Final Performance Certificate (end of PBM). The policy shall indemnify the Employer and the Contractor against physical loss or damage to the permanent structures during DLP and PBM.	PS	1	1,226,000.00	One Million Two Hundred Twenty Six Thousand Only	1,226,000.00	
Sub-Total of PROVISIONAL SUM (A)							20,426,000.00	

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	B	GENERAL WORK						
6	B.1	Provide and maintain the Insurance in the joint names of the Employer and the Contractor as appropriate. The policy shall cover Works, materials and plant, third-party liability for bodily injury/death or property damage, contractor's equipment, Group Personal Accidental (GPA) insurance, RSTMD Risks, natural catastrophes risks including earthquake, Extended Maintenance Cover covering until Performance Based Maintenance (PBM) period, etc. as per the Specifications and the Contract.	LS	1				
7	B.2	Providing Site Office (2 office rooms, 1-kitchen, 1-toilet & bathroom) for Supervising Team of the Employer including complete furnishings and furniture as mentioned in Special Provision 1 (Employer Requirements) for upgrading phase.	Months	24				
8	B.3	Provide, operate and maintain Quality Control Laboratory including equipment, accessories, personnel and consumables for both field testing facilities and off-site test with manpower as per specification and instruction of engineer all complete (DoR SS-504)	LS	1				
9	B.4	Provides Digital Photographs (at least 50 photograph with digital files) and Video (1 video of 60 minute equal to 1 set) as instructed by Project Manager of the important activities of works (Delevery Period i. during upgradation phase- every 4 month, ii. During DLP Phase-Yearly and iii. During PBM Phase - Yearly) (DoR SS-116)	Set	9				
10	B.5	Removal of Unserviceable Slide (existing & occurred during project duration of only greater than 20 Cum) including excavation, loading and disposal upto relevent lead as per instruction of Engineer. (DoR SS-905)	Cum	4593.77				
11	B.6	Carry out maintenance of the existing road to keep the road serviceable through out the contract period as per specification and instruction of the Engineer.(DoR SS-109)						
	B.6 a	During Construction Period	Km-Months	315.48				

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	B.6 b	During Defects Liability period until issue of Certificate of completion	Km-Months	157.74				
12	B.7	Performance based maintenance works including all the activities as per section 6-Employers Requirements phase -2 :Performance based maintenance (PBM) works and services of the bidding document.	Km-Months	315.48				
		Sub-Total of MISCELLANEOUS GENERAL WORKS (B)						
	1	SITE CLEARANCE WORK						
13	1.1	Clearing Grass and Removal of Rubbish and Dressing and levelling the construction surface Clearing grass/ top soil and disposal at appropriate tipping areas or as per instruction of Project manager , including cutting and filling of small undulation.(DoR SS-201)	Sqm	32862.5				
		Sub-Total of SITE CLEARANCE AND ROAD WORKS(1)						
	2	EARTHWORK						
14	2.1	Road way Excavation (Including drain Cut) in all types of soil and soft/medium rocks including removal of stumps and other deleterious matter,including lifting, removal and disposal at appropriate tipping location as per Drawing, technical specification and instruction of the Project Manager. (DoR SS-905)	Cum	91875.45				
15	2.2	Roadway Excavation in hard rock with mechanical drilling/rock breaker including blasting and breaking, and disposal of cut road within all lifts and leads as per Drawing and instruction of the Engineer. (DoR SS-905)	Cum	22968.86				
16	2.3	Providing, laying, spreading and compacting embankment with roadway cutting material /borrow pit material and compact to the required density as per Drawing and Technical Specifications.(DoR SS-909, 910)	Cum	4418.9				
		Sub-Total of EARTHWORKS (2)						

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	3	PAVEMENT WORKS						
17	3.1	Compacting original ground supporting sub-grade: Loosening the ground up to a level of 500mm below the subgrade level, watered, graded and compacted in layers as per Drawing and Technical Specifications.(DoR SS-1003,1004,1005)	Sqm	70595.48				
18	3.2	Sub-base: Providing and laying granular sub-base on prepared surface, mixing at OMC, and compacting to achieve the desired density, complete as per Drawing and Technical Specifications.(DoR SS-1201)	Cum	11942.93				
19	3.3	Providing and lying Crusher Run Macadam 45 mm maximum size on a prepared surface, spreading and mixing, watering and compacting to form a layer of base course as per Drawing and technical Specifications.(DoR SS-1204)	Cum	7871.47				
20	3.4	Providing and applying prime coat MC 30/ MC 70 on prepared surface of granular base including cleaning of road surface and spraying as per technical specifications.(DoR SS-1302)	lit	48799.27				
21	3.5	Providing and applying tack coat with bitumen on prepared surface of base including cleaning of road surface and spraying as per technical specifications.(DoR SS-1302)	lit	26238.23				
22	3.6	Providing and laying Asphalt concrete using crushed aggregates of grading II, premixed with bituminous binder and filler as per Drawing and Technical Specifications. (DoR SS-1309)	Cum	2623.83				
23	3.7	Supplying and placing of 25 mm dia. HDPE Cap (10 Kg/cm2) for Dowel Bars as per drawing and intruction of the projec manager. (DoR SS-701)	Rm	1063.25				
24	3.8	Providing and laying joint filler for rigid pavement works all complete as per drawing and instruction of the project manager. (DoR SS-3103)	Rm	1275				
Sub-Total of PAVEMENT WORK (3)								

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					Rate Figure	In Words		
	4	Structures Works						
25	4.1	Earthwork in excavation of foundation for structure in all type of soil and rock including construction of shoring and bracing, including removal of stumps and other deleterious matter at appropriate tipping location and backfilling with approved material as drawings, technical specification and instruction of the Project Manager. (DoR SS-907)	Cum	11673.77				
26	4.2	Providing suitable material and Back filling behind abutment, wing wall and return wall complete as per Drawing and Technical Specifications. Locally Available Material including compaction by tamping rod. (DoR SS-908)	Cum	2811.16				
27	4.3	Providing suitable material and Back filling behind abutment, wing wall and return wall complete as per Drawing and Technical Specifications. Granular Material.(DoR SS-908)	Cum	575.54				
28	4.4	Providing mechanically woven double twisted crates / mattress including rolling, cutting and with lacing wire and binding wire by Heavy zinc coated Hexagonal mesh type 100 mm x 120 mm, mesh wire 3 mm, selva wire 3.4 mm, lacing wire 2.4 mm, assembling, placing in position including stretching; forming compartments; tying the sides and diaphragms with binding wire in each mesh; tying with bracing wires and tie wires; and tying down the lid with providing and filling stone/boulder in gabion boxes/mattress etc.. Including dressing, bedding, bonding all complete. (DoR SS-2402)	Cum	7960.14				
29	4.5	Providing, transportation and placing of plump concrete works (concrete grade M15/40) in drainage and structures works including formwork, scaffolding, curing, preparation of mortar, compaction (concrete: 60%, stone/boulder: 40%) all complete as per Description of Special Provisions for Plum Concrete Works in section 6 of Bidding Document and as instructed by the project manager. (DoR SS-3113)	Cum	1523.45				

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					Rate Figure	In Words		
30	4.6	Providing and laying Random Rubble Stone Masonry work in cement mortar 1:4 in structure including pointing works complete as per Drawing and Technical Specifications (DoR SS-2600)	Cum	4956.43				
31	4.7	Providing and laying of Plain/Reinforced Cement Concrete in foundation including Formwork all complete as per Drawing and Technical Specifications.(DoRSS-2000)						
	4.7a	M10/40	Cum	368.99				
	4.7 b	M15/40	Cum	1800.78				
32	4.8	Providing and laying of Reinforced cement concrete in Super-structure complete as per Drawing and Technical Specification.(DoR SS-2000)						
	4.8 a	M20/20	Cum	126				
	4.8 b	M35/20	Cum	3200.3				
33	4.9	Providing and laying ,fitting and placing HYSD steel reinforcement complete in structure as per drawing and Technical Specification. (DoR SS-2014)	Ton	31.06				

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34	4.1	Providing and laying Reinforced Cement Concrete (NP3) pipe flush jointed pipe for culverts including fixing with cement mortar 1:2 as per drawing and technical specifications. (DoR SS-701)						
	4.10 a	900 mm dia (internal)	Rm	15				
	4.10 b	600 mm dia (Internal)	Rm	195				
35	4.11	Providing and laying of hand pack Stone soling with 150 to 200 mm thick stones and packing with smaller stone on prepared surface as per Drawing and Technical Specifications. (DoR SS-3111)	Cum	1413.66				
36	4.12	Providing and laying of dry Stone Masonry Work as per Drawing and Technical Specifications (DoR SS-2602, 2603, 2608).	Cum	398				
37	4.13	Laying and fixing of Geo-Textile all complete as per specification. Providing and laying of a geotextile filter between pitching and embankment slopes as per Drawing and Technical Specification. (DoR SS-2404)	Sqm	4824				
Sub-Total of Structure works (4)								

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	5	ROAD FURNITURE AND TRAFFIC SAFETY MEASURES						
38	5.1	Providing and fixing of retro- reflectorized warning, Regulatory and informatory sign as per specification made of high intensity grade sheeting, fixed over aluminum sheeting, 1.5mm thick supported on a 50 mm internal dia steel tube or mild steel angle iron post 75mm x 40mm x 6mm firmly fixed to the ground by means of properly designed foundation with M10/40 grade cement concrete 30 cm x 30 cm, 30 cm below ground level or as per Drawing and Technical Specifications. (for single pole)	No.	63				
39	5.2	Providing and installation of project signboards with size of 1.8 x 1.2 m as per specification and instruction of Engineer.	No	2				
40	5.3	Providing and fixing in position RCC M 15 grade kilometer post including painting and printing as per standard drawing - 2070 and technical specifications. (DoR SS-1506)						
	5.3 a	(a) One Kilometer post	No	10				
	5.3 b	(b) Five kilometer post	No	3				
41	5.4	Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beads on Bituminous Surface (on rough surface Similar to Surface Dressing) Providing and laying of hot applied thermoplastic compound at least 2 mm thick including reflectorizing glass beads as per DOR Traffic manual/ Specifications. The finished surface to be level, uniform and free streaks and holes.(DoR SS-1504)	Sqm	2317.8				
42	5.5	Providing and installation of 150 mm x 150 mm 1.5 m long delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 20 cm wide strips, buried or pressed into the ground and conforming to the drawings and technical specifications. (DoR SS-1507)	No	600				

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43	5.6	Providing and erecting a single "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m center to center, 1.8 m high, 1.1 m below ground/road level metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per Drawing and Technical Specifications.(as per DoR SS 1509)	Rm	2238				
44	5.7	Providing and erecting a double "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m center to center, 1.8 m high, 1.1 m below ground/road level metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per Drawing and Technical Specifications.(as per DoR SS 1509)	Rm	440				
Sub-Total of ROAD FURNITURE AND TRAFFIC SAFETY MEASURES (5)								
	6	Environmental Management Plan (EMP)						
45	6.1	Planting rooted grass slips on slopes < 450 including preparation of slips on site. Operation includes digging planting hole to a max of 5 cm depth with metal rod of hardwood peg, depending on nature of soil.The planting drills should be spaced 10 cm apart.(DoR SS-2800)	Sqm	3820				
46	6.2	Preparation and planting of live pegs of selected species (eg assuro, namdi phul, simali) of minimum length to 0.5 m depth in to soft debries.Pegs spaced at 5 cm centres within rows, with 5-20 cm between rows, and interwoven with vegetation.(DoR SS-2800)	Rm	1340				

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47	6.3	Providing mechanically woven double twisted crates / mattress including rolling, cutting and with lacing wire and binding wire by Heavy zinc coated Hexagonal mesh type 100 mm x 120 mm, mesh wire 3 mm, selvage wire 3.4 mm, lacing wire 2.4 mm, assembling, placing in position including stretching; forming compartments; tying the sides and diaphragms with binding wire in each mesh; tying with bracing wires and tie wires; and tying down the lid with providing and filling stone/boulder in gabion boxes/mattress etc.. Including dressing, bedding, bonding all complete. (DoR SS-2402)	Cum	1265				
48	6.4	Laying and fixing of Geo-Textile all complete as per specification. Providing and laying of a geotextile filter between pitching and embankment slopes as per Drawing and Technical Specification. (DoR SS-2404)	Sqm	924				
49	6.5	Provision and Providing of Safety Cloths, Protective Equipments, First Aid Medical Facilities for the Contractor's Employees, temporary installation and maintaining of all necessary site safety works such as barricades, green net caution signboards, Conducting HIV - AIDS awareness program including regular deployment of safety officer at site through out the period of Construction activities as instructed by Project Manager. (as per annex-1,PCC of the bidding document)	Month	24				
50	6.6	Providing and Establishing Camp with mobilization and demobilization for Contractor's labour and staff and demolishing after completion of works, comp should with adequate ventilated rooms and beds separate for female and male including ventilated toilets with regular supply of water for bath facilities, supply and maintain ventilated kitchen with hand washing basin, dish clining facilities, LPG burner stoves and sufficient number garbage bins for solid waste management as instructed by Project Manager. (as per annex-2,PCC of the bidding document)	Month	24				

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51	6.7	Regular water sprinkling (2.8 Lit/Sqm) minimum 2 times per day at school, hospital, cultural and major settlement areas (2 km length) for supression of dust in order to reduce the air pollution level (9 month/year X 2 year: 18 Month)	Month	18				
52	6.8	Perodic Air Quality Monitoring during the Constrecution stage at major settlement areas, the parameters of monitore shall be TSP, PM10, SO2, Nox, CO, over duration of 24 hours (in 8 hour shift) as per instrcution of Project Manager (2 Sites X12 times)as instructed by Project Manager.	No	24				
53	6.9	Perodic Noice Level Monitoring during the Constrecution stage at major sensetives areas such as Hospital, School, religious and culture places and other settlement areas as per instrcution of Project Manager (2 Sites X12 times)as instructed by Project Manager.	No	24				
54	6.1	Perodic Water Qaulity Monitoring during the Constrecution stage at major settlement areas, the parameters of monitor shall be pH, TSS, Oil, the test to be conducted as per instrcution of Project Manager. (7 Sites X12 times)as instructed by Project Manager.	No	84				
Sub-Total of Environmental Management Plan and EMoP (6)								

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	7	MISCELLANEOUS ITEMS						
55	7.1	Providing and laying HDPE pipe of 160 mm dia (pressure 6kg/cm2) all complete as per drawing and specifications NS: 40.(DoR SS-701)	Rm	200				
56	7.2	Day Works:						
	7.2 a	Skilled labor (Mason, Carpenter, mechanics etc.)	md	100				
	7.2 b	General labor (Unskilled, helpers, assistant operators etc.))	md	300				
	7.2 c	Excavator	hr	300				
	7.2 d	Tipper	hr	350				
		Sub-Total of MISCELLANEOUS ITEMS (7)						
		Total (A)						
		Total PS Amount (B)					20,426,000.00	
		Total Amount Without PS(C=A-B)						
		VAT(D=13% of C)						
		Grand Total Including PS and VAT(E=B+C+D)						