



आठराई त्रिवेणी गाउँपालिका गाउँकार्यपालिकाको कार्यालय



हाङपाङ, ताप्लेजुङ्ग

प.सं. ०८१/०८२

च.नं. २०२९

मिति:-२०८२/०१/२१

ने.सं. ११४५ बछलाय्व ०७ आइतबार

श्री भौतिक पुर्वाधार विकास मन्त्रालय
कोशी प्रदेश, विराटनगर ।

विषय:- आयोजना संचालनको जानकारी सम्बन्धमा ।

प्रस्तुत सम्बन्धमा कोशी प्रदेश सरकारको राजपत्रमा प्रकाशन भई प्रदेश स्तरमा निर्माण हुने प्रादेशिक मार्गको रूपमा रहेको दोभान - छाँगे - गोर्जा - देउराली - गुफा -बसन्तरपुर सडक (दोभान - गुफापोखरी) सडक खण्डको गुफा पोखरी देखि गोर्जा दोभान खण्डमा प्रदेश सरकारबाट स्वीकृत भएको विस्तृत परियोजना प्रस्ताव (DPR) बमोजिम कोशी प्रदेश समपुरक अनुदान र यस गाउँपालिकाको संयुक्त बजेटबाट चालु आर्थिक वर्ष ०८१/०८२ मा ट्याक ओपन र सोलिडको कार्य भईरहेको व्यहोरा जानकारीका लागि अनुरोध छ ।

पुनश्च:- उक्त निर्माण सम्बन्धी (DPR), लागत इस्टिमेट लगायत अन्य कागजातहरु कार्यालयको वेबसाइटमा अपलोड गरिएको व्यहोरा अनुरोध छ ।

बाबु नन्दन मेहता
प्रमुख प्रशासकीय अधिकृत

बोधार्थ

श्री मेन्छ्यायेम गाउँपालिका
गाउँकार्यपालिकाको कार्यालय मोराहाङ तेहथुम ।

श्री पुर्वाधार विकास कार्यालय
कोशी प्रदेश, पाँचथर/संखुवासभा ।



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Province Government
Ministry of Infrastructure Development
Transport Infrastructure Development
Infrastructure Development Office
Panchthar, Province-1, Nepal

Summary of Quantity

Name of The Project: Upgrading and Track Open of Gufa Bhuje Deurali Gorja Change Road

Chainage:- 7+350 to 26+890.61 Km

S.No.	Norms no.	Description of Works	Unit	Quantity	Remarks
1	2	3	4	5	6
1		General			
1.1		Relocation of public utilities/services and repairing for existing infrastructure (houses, water supply pipes, electricity poles, Temple, Foot staircase, Foot trail etc) as instructed by engineer (SS/SP-103).	P.S.	1.00	
1.2		Engineer's facility: Establishment and Maintenance of office and site camp etc, and providing furniture and other facilities as directed by the Engineer.	Month	0.00	
1.3	5.3	Carry out additional tests for material woks as required instructed by Engineer	P.S.	1.00	
1.4		Insurances for the loss or damage to works, plant, material, equipment, property and personnel injury or death and commission of bank security and performance guarantee all complete, as per specification (SS/SP-117) and instruction of engineer.	L.S.	1.00	
1.5	1.3	Providing and installation of Project Signboards with size of 2.5 x 1.8 m as per specification (SS/SP - 1500) and instruction of Engineer.	No	2.00	
1.6	29.22 A	Carry out maintainance of the existing road to keep the road Serviceable through out the contract period as per specification and instruction of engineer (SS-109).	Km-Month	0.00	
1.8		Provisional Sum	PS	1.00	
2		Site Clearance			
2.1	2.30	Clearing of grass, trees, removing roots, breaking sods, levelling the surface and safe disposal all complete (SS/SP 200).	Sqm	0.00	
2.2		Felling trees including cutting of trunks and branches, removing the roots, stacking serviceable materials and disposal of unserviceable materials to suitable place all complete as per Contract Documents:(SS/SP-201)			
2.2.1	2.2.i	300mm-600mm girth size	Nos.	150.00	
2.2.2	2.2.ii	600mm-900mm girth size	Nos.	60.00	
2.3		Dismantaling Works			
2.2.1	2.4.i.i.B	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including scaffolding wherever necessary, sorting the dismantled Material, disposal of unserviceable Material and stacking the serviceable Material with all lifts and lead of 1000 meters for Cement Concrete Grade M-15 & M-20	Cum.	5.00	
2.2.2	2.4.iii B	Rubble stone masonry in cement mortar.	Cum.	20.00	
2.2.3	2.4IX b	Removing all type of Hume Pipes and Stacking within a lead of 50 metres including Earthwork and Dismantling of Masonry Works.Above 600 mm to 900 mm dia	m	10.00	
3		Earthwork			
3.1	9.1.I.B	Roadway excavation including side drain in all types of soil and rock, including necessary haulage, disposal and lift etc. all complete as per specification and instruction by the engineer (SS/SP-905).	Cum	599,636.96	
3.2	9.9.B	Construction of Embankment with Material Deposited from Roadway Cutting or borrow pit, Providing, laying, spreading and compacting embankment with roadway cutting material and compact to the required density as per Drawing and Technical Specifications. (With machine)(SS/SP-909).	Cum	39,838.84	
4		Cross Drainage Structures			
4.1	9.4.I.B.i	Excavation for Structures Foundation, including construction of shoring and bracing, removal of stumps and other deleterious matter and backfilling with approved Material as per Drawing and Technical Specifications., by Mechanical Means, Depth upto 3 m(SP/SS 907 9.4 IA).	Cum	4,881.05	
4.2	9.11.D	Providing suitable material and Back filling behind abutment, wing wall and return wall complete as per Drawing and Technical Specifications., Locally available Material, with out watering and compaction by tamping rod (SP 908,9.11 D).	Cum	1,620.79	
4.3	10.80	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(SS/SP 1006 10.8).	Cum	301.78	
4.4	20.02.A	Providing and laying of PCC Grade M15 in Foundation all complete as per Drawing and Technical Specifications.	Cum	438.68	
4.5	20.02.B	Providing and laying of Plain/Reinforced Cement Concrete in Foundation complete as per Drawing and Technical Specifications, PCC Grade M 20/40 (SS 2000, 20.02B)	Cum	102.87	
4.6	18.2.a.ii	Providing, Preparing and Installing form work including necessary supports and removing after completion for walls. (Class F2 Finish), vertical plain surface.(SP 1804,18.2 A i).	Sqm	757.76	
4.7	20.50	Providing and laying Reinforcement bar for RCC works including cutting bending, binding, fixing in position and lead all complete as per specification. (SS/SP-2000) and instruction of Engineer.	Mt.	7.48	
4.8	26.5 A	Providing and laying Stone Masonry Work in Cement mortar in Foundation / structure complete excluding Pointing and Plastering, as per Drawing and Technical Specifications., Cement sand mortar M7.5, Using Concrete Mixer (SS/SP 2500).	Cum	1,653.40	
4.9	24.16	Providing and filling with graded pervious (filter material) in layer with necessary watering and compaction as per specification (SS/SP - 3110, 2404) and instruction of Engineer.	Cum	294.61	
4.10	7.2 D	Providing and laying 900mm int. dia. RCC hume pipes (NP3) with or without collars, jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) with lead all complete as per specificationand instruction of Engineer : (SS/SP-701).	Rm	470.00	
4.11	24.50	Providing , laying and fixing of geotextile (filter fabrics), with lead all complete as per specification & instruction of Engineer (SS/SP-2404/3110).	Sqm	1,441.89	
4.12	24.3 & 24.4	Providing and placing machine made gabion and mattress of Heavy zinc coated Hexagonal mesh type 100 mm x 120 mm, mesh wire 3 mm, selvage wire 3.9 mm, lacing wire 2.4 mm including stone filling as per drawing, technical specification and directed by the engineer all complete (SS/SP-2402).	Cum	48.00	
5		Retaining Structures			
5.1	9.4.I.B.i	Excavation for Structures Foundation, including construction of shoring and bracing, removal of stumps and other deleterious matter and backfilling with approved Material as per Drawing and Technical Specifications., by Mechanical Means, Depth upto 3 m(SP/SS 907 9.4 IA).	Cum	58,940.40	
5.2	9.11.D	Providing suitable material and Back filling behind abutment, wing wall and return wall complete as per Drawing and Technical Specifications., Locally available Material, with out watering and compaction by tamping rod (SP 908,9.11 D).	Cum	51,127.40	

S.No.	Norms no.	Description of Works	Unit	Quantity	Remarks
1	2	3	4	5	6
5.3	20.02.A	Providing and laying of PCC Grade M15 in Foundation all complete as per Drawing and Technical Specifications.	Cum	555.50	
5.4	10.80	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(SS/SP 1006 10.8).	Cum	833.25	

S.No.	Norms no.	Description of Works	Unit	Quantity	Remarks
1	2	3	4	5	6
5.5	24.16	Providing and filling with graded pervious (filter material) in layer with necessary watering and compaction as per specification (SS/SP - 3110, 2404) and instruction of Engineer.	Sqm	1,350.00	
5.6	24.21.A.i	Providing and laying Plum Concrete mixing of 60% M15 concrete and 40% boulder/stones (Boulder mixed concrete) all complete as per Drawing and Technical Specifications. (Mechanical Means)	Cum	7,614.07	
5.7	26.5 A	Providing and laying Stone Masonry Work in Cement mortar in Foundation / structure complete excluding Pointing and Plastering, as per Drawing and Technical Specifications., Cement sand mortar M7.5, Using Concrete Mixer (SS/SP 2500).	Cum	6,232.40	
5.8	24.3 & 24.4	Providing and placing machine made gabion and mattress of Heavy zinc coated Hexagonal mesh type 100 mm x 120 mm, mesh wire 3 mm, selva wire 3.9 mm, lacing wire 2.4 mm including stone filling as per drawing, technical specification and directed by the engineer all complete (SS/SP-2402).	Cum	19,000.00	
5.9	7.1 A	Providing, Jointing and Laying HDPE Pipes with or without collar etc. complete in place as per Drawing and Technical Specifications (Size 110mm/125/150 mm outer dia.)	m.	12,958.75	
5.10	24.50	Supply and place geotextile as per design drawings, all complete (SS/SP- 3110)	Sqm	24,165.84	
5.11	18.2.a.ii	Providing, Preparing and Installing form work including necessary supports and removing after completion for walls. (Class F2 Finish), vertical plain surface.	Sqm	18176.740	
6		Side Drain			
6.1	9.4.1.B.i	Excavation for Structures Foundation, including construction of shoring and bracing, removal of stumps and other deleterious matter and backfilling with approved Material as per Drawing and Technical Specifications. , by Mechanical Means, Depth upto 3 m(SP/SS 907 9.4 IA).	Cum	14,509.28	
6.2	9.11.D	Providing suitable material and Back filling behind abutment, wing wall and return wall complete as per Drawing and Technical Specifications., Locally available Material, with out watering and compaction by tamping rod (SP 908,9.11 D)	Cum	15,338.22	
6.3	10.80	Providing and placing stone soling including compaction, testing etc., all complete as per Drawings and Technical Specifications, (SP 908,9.11 D).	Cum	1,918.91	
6.4	20.02.A	Providing and laying of PCC M15 in Foundation complete as per Drawing and Technical Specifications, (SS/SP 2000).	Cum	1,279.27	
6.5	20.02.B	Providing and laying of RCC M20 for side drain all complete as per Drawing and Technical Specifications, (SS 2000, 20.02B).	Cum	191.88	
6.6	18.2.a.ii	Providing, Preparing and Installing form work including necessary supports and removing after completion for foundation and footing. (Class F1 Finish)	Sqm	24,092.98	
6.7	20.50	Providing and laying Reinforcement bar for RCC works including cutting bending, binding, fixing in position and lead all complete as per specification. (SS/SP-2000) and instruction of Engineer.	Mt.	30.13	
6.8	26.5 A	Providing and laying Plum Concrete mixing of 60% M15 concrete and 40% boulder/stones (Boulder mixed concrete) all complete as per Drawing and Technical Specifications. (Mechanical Means)	Cum	3,336.77	
7		Pavement			
7.1	10.3.A	Loosening of the ground upto a level of 500 mm below the sub-grade level, watered, graded and compacted in layers as per Drawing and Technical Specifications.	Cum	24,795.76	
7.2	12.1 A	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.	Cum	35,991.96	
7.3	12.7	Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing , watering and compacting to form a layer of sub-base/Base course as per Drawing and Technical Specifications.	Cum	22,597.56	
7.4		Wearing Course Works			
a	13.2 A	Prime Coat, Prime Coat, with MC 30 / 70 by Mechanical Means, Providing and applying prime coat with Hot Bitumen (including cutter) on prepared surface of granular base including cleaning of road surface and spraying by mechanical means as per Technical Specification ., Bitumen (cutback) MC 30 (for stabilized soil base/ crusher run macadam)	ltr	135,995.69	
b	13.2 A	Providing and applying tack coat with hot Bitumen at specified rate on the prepared non-bituminous surfaces including cleaning as per Technical Speciation	ltr	81,597.41	
c	13.6	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	Cum	7,532.52	
8		Road Furnitures and Traffic Safety Measures			
8.1	15.2	Providing and fixing of retro-reflectORIZED warning, Regulatory and informatory sign as per specification clause 1501 made of high intensity grade sheeting, fixed over aluminum sheeting,1.5mm thick supported on a 50mm internal dia steel tube or mildsteel angle iron post 75mmx40mmx6mm firmly fixed to the ground by means of properly designed foundation with M10/40 grade cement concrete30cmx30cm,30cm below ground level or as per Drawing and Technical Specifications.. all complete, as per specification (SS/SP-1501) and instruction of Engineer.	No.	0.00	
8.3	15.9	Providing and laying of hot applied thermoplastic compound at least 2mm thick including reflecto rizing glass beads as per DOR Traffic sign manual/Specifications. The finished surface to be level, uniform and free from streaks and holes (SP/SS 1504.15.9).	Sqm	0.00	
8.4	15.01.b	Supplying and erecting traffic sign in place including 50mm dia. Steel tube, 2mm. thick steel plate, cement concrete, painting, writing and supporting steel angle nut and bolt etc. complete a) 60cm. Dia. Circular, 60cm. equilateral triangle and 60cm.x 45cm. rectangular shaped sign (single post).	No.	0.00	
8.5	15.11 II	Supplying and placing RCC Standard Kilometer stone post (placed at each km distance) including excavation, backfilling, painting and writing etc. all complete, as per specification (SS/SP-1506) and instruction of Engineer.	No.	0.00	
8.6	15.1	Supplying and fixing in place RCC delineator and guard post including excavation, back filling, painting and erection etc. all complete as per specification (SS/SP-1504) and instruction of Engineer.	No.	0.00	
8.7	15.4A	Providing and erecting "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet 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*75*5 mm spaced 2 m c/c, 1.8 m high, 1.1 m below ground/road level, all sheet paetsand fitment to the galvanized by hot dip process, all fittings to conform to IS 1367 and IS 1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150*75*5mm, 330 mm long, all complete (IRC- 7.08)	Rm	6,839.21	
9		Bio Engineering Works			
9.1		Construction of hedge brushlayer	RM	0.000	
9.2		Construction of brushlayer	RM	0.000	
9.3		Grass slip plantation on >60° slope @ 100 drills/sqm	sqm	0.000	
9.4		Plantation of large sized stature grass slips at slope <45° @ 20 slips/sqm	sqm	0.000	
9.5		Plantation of large sized stature grass slips at slope 45- 60° @ 20 slips/sqm	sqm	0.000	
9.6		Tree plantation in plains with tree guard	nos	0.000	
9.7		Shrub Plantation on slope <30°	nos	0.000	
9.8		Hedge Row Plantation (4 plants/RM)	RM	0.000	
9.9		Grass seed sowing <40°	sqm	0.000	
10		Schedule of Day Works			
10.1		Human Resources			

S.No.	Norms no.	Description of Works	Unit	Quantity	Remarks
1	2	3	4	5	6
10.1.1		Skilled Labour	pd	20.00	
10.1.2		Unskilled Labour	pd	50.00	
10.2		Materials			
10.2.1		RCC Pipe 300 mm dia. (NP3)	m	10.00	
10.2.2		GI Pipe, 50 mm dia. (Heavy) and Fittings	m	10.00	
10.2.3		HDPE Pipe, 110 mm dia (4kg/cm2)	m	50.00	
10.2.4		HDPE Pipe, 150 mm dia (6kg/cm2)	m	300.00	
10.2.5		HDPE Pipe, 250 mm dia (10kg/cm2)	m	20.00	
10.2.6		Sand	m3	5.00	
10.2.7		Stone / Boulder	m3	5.00	
10.2.8		Cement	mt	0.50	
10.3		Equipment and Machineries			
10.3.1		Tipper/Truck	Hour	5.00	
10.3.2		Excavator,Track	Hour	5.00	
10.3.3		Back Hoe Loader	Hour	15.00	
10.3.4		Loader	Hour	5.00	
10.3.5		Motor Grader	Hour	5.00	
10.3.6		Roller 3 wheel (Up to 12 ton)	Hour	5.00	
10.3.7		Tractor	Hour	5.00	