

Government of Nepal
Ministry of Infrastructure Development
Department of Road
Federal Highway Supervision and Monitoring Office, Damak
Road Division Lahan
Lahan, Siraha

BILL OF QUANTITY

Project Name: Road Upgrading Works of Rajbiraj - Hanumananagar- Bharadah Road , Saptari
Name of Work: 2-Lane Asphalt, X- Drainage, Drain ,Footpath & Road Safety works
Location / Chainage: Jhalhi Nahar to Mansapur-Inaruwa (CH-0+000 To CH-8+270)
Contract No:RDLHN/33701193/083/84-21

Budget Head
Fiscal Year :083/084

S.N.	Description of Items	Units	Quantity	Rate In words (Nrs.)	Rate in Figure (Nrs.)	Amount	Remark
1	Provisional Sum						
1.01	Reconstruction and relocation of damaged public utility services (water supply lines,irrigation channels,sewer pipes,Electricity poles,railings,Hume Pipe,etc.) engineer's facilities,maintenance of office quarter,site office Rajbiraj,maintenance of DOR vehicles as directed by the engineer. [SP 100]	PS	1.00	12000000.00	One Cror Twenty Lakhs Only	12000000.00	
					Sub Total= 1	12000000.00	
2	General Items						
2.01	Insurance for the loss of damage to works, plant, material, equipment, property and personnel injury or death and third party as per condition of contract.	Job	1.00				
2.02	Supplying and erecting Project sign board (1.8m X 1.2m) including 50 mm dia steel tube, 2 mm thick steel plate, cement concrete, Double painting, writing and supporting steel angle nut and bolt etc. all complete [SS/SP-1500]	nos.	2.00				
2.03	Carryout Required Maintenance Works & sprinkling of water to keep the road serviceable & dust free throught out the Contract Period as per Specifications and Instruction of engineer all Complete.(During Construction period)	km-month	148.86				
					Sub Total= 2		
3	Site Clearance and Earthworks						
3.01	Dismantling of Cement Concrete Work including sorting of dismantled material , disposal of unserviceable material to nearby site as instructed by engineer and stacking the serviceable material with relevant lift and lead [SS/SP-202]	m3	35.74				

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S.N.	Description of Items	Units	Quantity	Rate In words (Nrs.)	Rate in Figure (Nrs.)	Amount	Remark
3.02	Dismantling of Brick Masonry in Cement mortar including sorting of dismantled material , disposal of unserviceable material and stacking the serviseable material with all lifts and lead of 1000 m [SS/SP-202]	m3	485.22				
3.03	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. [SS/SP-201]	m2	20650.00				
3.04	Construction of Embankment with Material Deposited from borrowpit, Providing, laying, spreading and compacting embankment to the Density not less than 15.2 KN/Cum with borrowpit material and compact to the required density as per Drawing and Technical Specifications.(CBR of Borrow Material shall not be less than 6%) [SS/SP- 909,910]	m3	17880.40				
					Sub Total=3		
4	Retaining Structural Works						
4.01	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.[SS/SP-907]	m3	27.00				
4.02	Providing, laying and levelling of dry stone soling works in the foundation all complete. per Drawing and Technical Specifications.[Old Norms 2041 (1st ammendment 2050)]	m3	5.40				

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S.N.	Description of Items	Units	Quantity	Rate In words (Nrs.)	Rate in Figure (Nrs.)	Amount	Remark
4.03	Providing and laying of plain cement concrete machine mixed M15/40 for the Structure/Drain etc. including F2 Finishing form work, compaction, curing, testing and relevant lead . etc. all complete as per Drawing and Technical specification. [SS/SP-2000]	m3	3.60				
4.04	Providing and placing plum-concrete with 60% M 15/40 concrete and 40% boulders/stones including providing necessary pipes for weepholes as per specification. relevant lead & lift using concrete mixer and vibrator, including necessary F2 Finishing formworks. [SS/SP-3311]	m3	51.00				
4.05	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 .[SS/SP-908]	m3	37.50				
					Sub Total= 4		
5	Cross Drainage Works						
5.01	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.[SS/SP-907]	m3	331.64				
5.02	Providing, laying and levelling of dry stone soling works in the foundation all complete. per Drawing and Technical Specifications.[Old Norms 2041 (1st ammendment 2050)]	m3	53.83				

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S.N.	Description of Items	Units	Quantity	Rate In words (Nrs.)	Rate in Figure (Nrs.)	Amount	Remark
5.03	Providing and laying of plain cement concrete machine mixed M15/40 for the Structure/Drain etc. including F2 Finishing form work, compaction, curing, testing and relevant lead . etc. all complete as per Drawing and Technical specification. [SS/SP-2000]	m3	48.92				
5.04	Providing and Laying Reinforced Cement Concrete Flush jointed Pipe for culverts Providing and Laying Reinforced cement concrete NP3 Flush jointed pipe for culverts including fixing with cement mortar 1:2 as per Drawing and Technical Specifications. 900mm internal dia [SS/SP-701]	rm	37.50				
5.05	Providing and placing plum-concrete with 60% M 15/40 concrete and 40% boulders/stones including providing necessary pipes for weepholes as per specification. relevant lead & lift using concrete mixer and vibrator, including necessary F2 Finishing formworks. [SS/SP-3311]	m3	340.11				
5.06	Providing and laying of plain cement concrete machine mixed M25/20 for the Structure,slab etc. including F2 Finishing form work, compaction, curing, testing and relevant lead . etc. all complete as per Drawing and Technical specification. [SS/SP-2000]	m3	82.96				
5.07	Providing and laying, fitting and placing un-coated Mild steel/HYSD reinforcement for foundation including cutting, bending, shifting to site etc. all complete as per specification and drawing. [SS/SP-2000]	t	7.03				

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S.N.	Description of Items	Units	Quantity	Rate In words (Nrs.)	Rate in Figure (Nrs.)	Amount	Remark
5.08	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. [SS/SP-908]	m3	174.00				
Sub Total= 5							
6	Flexible Pavement Works						
6.01	Compacting original ground supporting sub grade loosening of the ground up to a level of 150 mm below the subgrade level,watered,graded and compacted in layers as per drawing and technical specification.[SS/SP-1003,1005]	m2	27323.50				
6.02	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified Material with in all lifts and lead as per Drawing and Technical Specifications.[SS/SP-1003]	m2	29881.50				
6.03	Providing and laying granular sub-base (Grading V) on prepared surface, mixing at OMC,and compacting to achieve the desire density, complete as per drawing and Technical Specification by Mechanical means.[SS/SP-1201]	m3	13672.10				
6.04	Providing and laying Crusher Run Macadam (37.5mm Nominal Size) on a prepared surface, spreading and mixing, watering and compacting to form a layer of base course as per Drawing and technical Specifications by Mechanical means.[SS/SP- 1204]	m3	16299.00				
6.05	Providing and Supplying Prime coat with hot bitumen MC 30/70 (including cutter) on prepared surface of granular base including cleaning of road surface and spraying by Mechanical means at specified rate as per the Technical Specification (Spray rate @ 0.9ltr/sqm). [SS/SP- 1302]	l	76747.50				

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S.N.	Description of Items	Units	Quantity	Rate In words (Nrs.)	Rate in Figure (Nrs.)	Amount	Remark
6.06	Providing and applying Tack coat with Hot Bitumen on prepared surface of granular base including cleaning of road surface and spraying by mechanical means as per Technical Specification . Tack coat by Mechanical Means (spray rate 0.6 lit/sqm.[SS/SP-1302]	l	51165.00				
6.07	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, NMAS 13.2mm [SS/SP- 1309]	m3	2418.60				
6.08	Providing and laying close-graded premix carpet of 20 mm thickness composed of 11.2 mm to 0.09 mm aggregates using bitumen as wearing course on a previously prepared base as per drawing and Technical Specifications .[SS/SP-1310]	m3	496.20				
Sub Total= 6							
7	RCC Drain Works						
7.01	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.[SS/SP-907]	m3	800.00				
7.02	Providing, laying and levelling of dry stone soling works in the foundation all complete. per Drawing and Technical Specifications.[Old Norms 2041 (1st ammendment 2050)]	m3	240.00				

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7.03	Providing and laying of plain cement concrete machine mixed M15/40 for the Structure/Drain etc. including F2 Finishing form work, compaction, curing, testing and relevant lead . etc. all complete as per Drawing and Technical specification. [SS/SP-2000]	m3	120.00				
7.04	Providing and laying of plain cement concrete machine mixed M20/20 for the drain, drain cover slab etc. including F2 Finishing form work, compaction, curing, testing and relevant lead . etc. all complete as per Drawing and Technical specification. [SS/SP-2000]	m3	1165.50				
7.05	Providing and laying, fitting and placing un-coated Mild steel/HYSD reinforcement for foundation including cutting, bending, shifting to site etc. all complete as per specification and drawing. [SS/SP-2000]	t	51.20				
					Sub Total= 7		
8	Footpath and kerb						
8.01	Providing, laying and levelling of dry stone soling works in the foundation all complete. per Drawing and Technical Specifications.[Old Norms 2041 (1st ammendment 2050)]	m3	212.50				
8.02	Providing and laying of plain cement concrete machine mixed M15/40 for the Structure/Drain etc. including F2 Finishing form work, compaction, curing, testing and relevant lead . etc. all complete as per Drawing and Technical specification. [SS/SP-2000]	m3	276.25				

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S.N.	Description of Items	Units	Quantity	Rate In words (Nrs.)	Rate in Figure (Nrs.)	Amount	Remark
8.03	Providing and laying of M/20 precast cement concrete Kerb 38 cm * 20 cm * 25 cm (H*B*L) with 12 mm thick 1:3 cement sand mortar bedding and joints including foundation excavation levelling but excluding foundation concrete for foundation or sand gravel material, all complete as per Drawing and Technical Specifications	rm	4250.00				
8.04	Providing and laying granular sub-base (Grading V) on prepared surface, mixing at OMC, and compacting to achieve the desire density, complete as per drawing and Technical Specification by Mechanical means.[SS/SP-1201]	m3	510.00				
8.05	Providing and laying of precast M20 grade 50 mm thick cement concrete slab footpath on 12 mm thick 1:3 cement sand mortar over the prepared base, all complete as per Drawing and Technical Specifications.[SS/SP-1401]	m2	3400.00				
8.06	Providing, jointing and laying 110mm HDPE pipes with or without collar etc. complete in place as per Drawing and Technical Specifications.[SS/SP-701]	rm	977.50				

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S.N.	Description of Items	Units	Quantity	Rate In words (Nrs.)	Rate in Figure (Nrs.)	Amount	Remark
8.07	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-1501]	m2	1912.50				
					Sub Total= 8		
9	Road Furnitures and Traffic Safety Measures						
9.01	Providing and laying of hot applied thermoplastic compound at least 2 mm thick including reflectorizing glass beads as per DOR Traffic sign manual/ Specifications.[SS/SP-1504]	m2	1981.12				
9.02	Supplying and placing R.C.C. kilometer post including excavation, back filling, painting and writing etc. all complete as per specification. [SS/SP-1506] a) Standard KM post placed at each kilometer.	nos.	6.00				
9.03	Supplying and placing R.C.C. kilometer post including excavation, back filling, painting and writing etc. all complete as per specification. [SS/SP-1506] b) Bigger kilometer post (placed at each 5 km.)	nos.	3.00				
9.04	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.[SS/SP-1501] a) 60cm Dia .Circular , 60cm. Equilateral Triangle shaped sign (single post)	nos.	20.00				
9.05	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.[SS/SP-1501] b) 1.2m.x 0.75m. Size bigger traffic sign with back support and two or more post.	nos.	6.00				

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9.06	Supplying and fixing in place R.C.C. delineator and guard post including excavation, back filling, painting and erection etc. all complete as per drawing. [SS/SP-1507]	nos.	400.00				
					Sub Total= 9		
				Provisional Sum			
				Total with PS			
				Total without PS			
				13% VAT			
				Grand Total with PS,VAT & Contingency			