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Government of Nepal
Madhyapur Thimi Municipality
Office of Municipality
Province No.3
Bhaktapur



Analysis of Rates of Road Works

CONTRACT

EV 076/075

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Madhyapur Thimi Municipality

(According to Work Norms of Department of Roads and Agricultural Roads) SUMMARY OF RATE ANALYSIS FOR ROADS FOR FY 076/077

CONTRACT RATE

Sk	SECTION	ITEMS DESCRIPTION	UNIT	Rate (Nrs)
		I EWS DESCRIPTION	01111	Nate (1413)
	Section 2	SITE CLEARANCE		
		Clearing and grubbing of forest including uprooting, carrying and		
	W No 2 01	disposing of vegetation, grass, bush, sapling and trees of girth upto		
	Item No 2.01	300mm (measured at a height of 1m above the ground level). lead		
		10m.		
		a)Trees & sapling less than 15 numbers per 100 sq.m	sqm	21.32
		b)Trees & sapling less than 15 numbers per 100 sq.m	sqm	31.98
		Clearing of grass, removing roots breaking sods, levelling the surface	sqm	24.52
2	Item No 2.02	and disposal to 10m	Sqiii	24.02
		Felling and uprooting of bamboo, clearing the area, stacking of		
3	Item No 2.03	bamboo and disposing of wastes to 1000m. (Volume of the excavated	cum	2,481.93
	10111110 2.00	area should be measured)		
		Felling trees (the girth measured at a height of 1 m above ground		
		level) including cuttting of trunks and branches, removing the roots,		
4	Item No 2.04	stacking serviceable materials and disposal of unserviceable		
		materials to 10m distance and back filling the depressions/pits		
		a) above 300mm to 600mm	no	1,117.80
		b) above 600mm to 900mm	no	3,353.40
		c) above 900mm to 1800mm	no	8,776.80
		d) above 1800mm to 2500mm	no	20,389.50
		e) above 1800/fill to 2300/fill e) above 2500mm	no	67,068.00
		Dressing and levelling of the construction surface including cutting	110	
5	item no:2.05		sqm	10.66
		and filling of small undulation. Excavation of top soil (sub grade) and carrying away from		
6	item no:2.06	Excavation of top soil (sub grade) and carrying away from	sqm	170.57
		construction site lead 10m.	cam	53.30
1	item no:2.07	Spreading, Shaping and light compacting of top soil on slopes.	sqm	33.30
		Dismantling Bridge, culvert and other structures including stockpiling		
8	item no:2.08.01	the reusable materials and disposal of unusable materials within 50m.		
		Lead., (By Manual Means)		
	(i)	By Manual Means	21100	1,693.95
		a.Lime concrete, cement concrete grade M10 and below	cum	
		b. Cement Concrete Grade M15 & M20	cum	2,004.45
		c. Pre- stressed / Reinforced cement concrete grade M20 & above	cum	4,422.90
	(ii)	By Mechanical Means		0.707.00
		a. Cement Concrete Grade M15 & M20	cum	2,737.92
		b. Pre- stressed / Reinforced cement concrete grade M20 & above	cum	3,289.92
		Dismantling Bridge, culvert and other structures including stockpiling		
9	item no:2.08.02 (i)	the reusable materials and disposal of unusable materials within 50m.		
		Lead.,		
		Dismantling Brick/Tile Work		
	-	a.Brick work in lime mortar	cum	1,072.95
		b.Brick work in cement mortar	cum	1,938.90
110	item no:2.08.02 (iii	Dismantling Stone Masonry		
		a. Random rubble stone masonry in cement mortar	cum	1,938.90
TIT.	item no:2.09	Dismantling of Flexible Pavements		-
		Dismantling of flexible pavements and disposal of dismantled Material		
		up to a lead of 1000 metres, stacking serviceable and unserviceable		
		Material separately		
	(i)	By Manual Means		
	(1)	(a) water bound Macadam materials including soling/sub-base.	cum	2,145.90
		(b)Bituminous materials	cum	2,456.40
	(ii)	By Mechanical Means	1	,
	(11)		cum	1,311.69
1000	7-7-2-10	(a)Bituminous course Dismantling of Cement Concrete Pavement	Carri	.,0.,00
	item no:2.10	Dismantling of Cement Concrete Pavement by mechanical means		
		Dismanting of cement controlle pavement by mechanical means		
		using pneumatic tools, breaking to pieces not exceeding 0.02 cum in	oum.	4,441.53
		volume and stock piling at designated locations and disposal of	cum	4,441.53
		dismantled Material up to a lead of 1000 metres, stacking serviceable		_
		and unserviceable Material separately		

Presented by Jantan

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CONTRACT RATE Rate (Nrs) UNIT ITEMS DESCRIPTION SECTION Removing all type of Hume Pipes and Stacking within a lead of 50 item no:2.11 metres including Earthwork and Dismantling of Masonry Works. 675.17 m i) upto 600mm dia. 994.98 m ii) above 600mm to 900mm dia. 1,421.40 m iii) above 900mm dia. Dismantling gabion works including stockpiling the reusable materials 1.208.19 cum item no:2.12 and disposal of reusable materials within 50m lead Section 4 **FENCING** GI Barbed wire fencing item no:4.1.a GI Barbed wire fencing 1.2m high with RCC Post
Providing and fixing 1.2m high GI barbed wire frencing with 1.8m a. RCC posts 150mm*150mm placed every 3m center to center founded in M15 grade cement concrete, 0.6m below ground level, every 15th post, last but one end post and corner post shall be strutted on both 964.27 m sides and end post on end post one side only and provided with 9 horizontal lines and 2 diagonals interwoven with horizontal wires, fixed with GI staples, turn buckles etc., complete as per Drawing and Technical Specification. GI Barbed wire fencing 1.8m high with RCC Post
Providing and fixing 1.8m high GI barbed wire frencing with 12.4m b. RCC posts 150mm*150mm placed every 3m center to center founded in M15 grade cement concrete, 0.6m below ground level, every 15th post, last but one end post and corner post shall be strutted on both 1,296.66 m sides and end post on end post one side only and provided with 9 horizontal lines and 2 diagonals interwoven with horizontal wires, fixed with GI staples, turn buckles etc., complete as per Drawing and Technical Specification. GI Barbed wire fencing 1.2m high Providing and fixing 1.2m high GI barbed wire frencing with 1.8m C angle iron posts 40mm x 40mm x 6mm placed every 3m center to center founded in M15 grade cement concrete, 0.6m below ground level, every 15th post, last but one end post and corner post shall be 520.76 m strutted on both sides and end post on end post one side only and provided with 9 horizontal lines and 2 diagonals interwoven with horizontal wires, fixed with GI staples, turn buckles etc., complete as per Drawing and Technical Specification GI Barbed wire fencing 1.8m high Providing and fixing 1.8m high GI barbed wire frencing with 2.4m d angle iron posts 50mm x 50mm x 6mm placed every 3m center to center founded in M15 grade cement concrete, 0.6m below ground level, every 15th post, last but one end post and corner post shall be 924.94 m strutted on both sides and end post on end post one side only and provided with 12 horizontal lines and 2 diagonals interwoven with horizontal wires, fixed with GI staples, turn buckles etc., complete as per Drawing and Technical Specification. Fencing with welded steel wire fabric 75mm x 50mm
Providing and fixing 1.2m high fencing with angle iron posts 50mm x item no:4.2 50mm x 6mm placed every 3m center to center with 0.4m embedded in M15 grade cement concrete, corner, end and every 10th post to 2,312.52 m strutted, provided with welded steel wire fabric of 75mm x 50mm mesh or 75mm x 25mm mesh and fixed to iron posts by flat iron 50 x 5mm and bolts etc. complete as per Drawing and Technical Specification. PIPE DRAIN, PIPE CULVERTS AND CONCRETE Section 7 Providing, jointing and laying HDP pipes with or without collar etc. item no:7.01

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complete in place as per specification.

a) 110 mm/125mm outer diameter

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1,107.61

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CONTRACT RATE

				TRACTRATE
5%	SECTION	ITEMS DESCRIPTION	UNIT	Rate (Nrs)
		Providing and Laying Reinforced Cement Concrete Flush jointed Pipe		
		for culverts Providing and Laying Reinforced cement concrete NP3		
18	item no:7.02	Flush jointed pipe for culverts including fixing with cement mortar 1:2		
		as per Drawing and Technical Specifications.		
		i) 300mm dia (Int.)	m	4,559.99
		ii) 450mm dia (Int.)	m	6,368.98
		iii) 600mm dia (Int.)	m	8,585.03
		iv) 900mm dia (Int.)	m	16,128.56
			m	21,569.55
		v) 1200mm dia (Int.)		
		Providing and Laying Reinforced Cement Concrete Pipe for culverts		
		including fixing collar Providing and Laying Reinforced cement		
19	item no:7.03	concrete NP3 Collar jointed pipe for culverts including fixing collar		
88		with cement mortar 1:2 as per Drawing and Technical Specifications.		
				4,843.72
		i) 300mm dia (Int.)	m	
		ii) 450mm dia (Int.)	m	6,776.36
		iii) 600mm dia (Int.)	m	9,146.60
		iv) 900mm dia (Int.)	m	17,231.09
		v) 1200mm dia (Int.)	m	23,027.19
	Section 9	EARTH WORKS		
20	item no:9.01	Earthwork Excavation in Cutting.		
		Roadway Excavation in All types of Soil		
	a.	Manual means		
		Roadway Excavation in all types of soil as per drawing and technical		
601		specification, including removal of stumps and other deleterious		000 44
ш		matter, with all lifts and lead as per Drawing and instruction of the	cum	829.1
101		Engineer.		
		Mechanical Means		
		Road way Excavation in all types of soil as per Drawing and technical	 	
		specifications including removal of stumps and other deleterious		
801		specifications including removal of stumps and other deleterious	cum	80.88
		matter, all lifts and lead as per Drawing and instruction of the		
		Engineer.	-	
	b.	Manual means	-	
		Roadway Excavation in ordinary rock as per Drawing and Technical		050.4
		specification, including all lift and lead as per Drawing and instruction	cum	959.4
		of the Engineer.		
		Roadway Excavation in ordinary rock by Mechanical Means		
		Roadway Excavation in ordinary rock as per Drawing and Technical		
801		specification, including all lift and lead as per Drawing and instruction	cum	242.6
603		of the Engineer.		
	C.	Roadway Excavation in Hard Rock		
		Roadway Excavation in Hard Rock, mechanical Drilling Roadway		
		Excavation in hard rock with mechanical drilling, including blasting		2 220 7
		and breaking, and disposal of cut road within all lifts and leads as per	cum	3,338.7
		Drawing and instruction of the Engineer.		
		Removal of Unserviceable Soil with Disposal upto 1000 meters		
21	item no:9.02	Removal of unserviceable soil including excavation, loading and	cum	167.3
5 01	MeIII 110.9.02	disposal upto 1000 meters lead		
-TENTO	Tam no:0 04	Excavation for Structures Foundation	+ +	
-	item no:9.04	Earth work in excavation of foundation of structures, including	+	
		Early 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.	1	
		Manual Means	-	
	a.	Ordinary soil		000.0
		(i) Depth upto 3m	cum	966.0
		(ii) Depth 3m to 6m	cum	1,380.0
		(iii) Depth above 6m	cum	2,139.0
	b.	Mechanical Means		
		(i) Depth upto 3m	cum	121.3
		(i) Deptir upto 3iii	Cuiti	145.5

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5%	SECTION	ITEMS DESCRIPTION	UNIT	Rate (Nrs)
- Contract	70m no:0 05	(iii) Depth above 6m	cum	192.70
420	item no:9.05	Stripping and Storing Top Soil		
H		Stripping, storing of top soil by road side at 15 m internal and reapplication on embankment slopes, cut slopes and other areas in localities where the available embankment Material is not conducive to plant growth as per Drawing and Technical Specifications.	cum	179.19
24	item no:9.07	Preparation and Surface Treatment of Formation.		
-	item no:9.08	Preparation and surface treatment of Formation by removing mud and slurry, watering to the extent needed to maintain desired moisture content, compacting all complete as per Drawing and Technical Specifications. Construction of Embankment	sqm	81.60
1	item 110.9.00			
		a. Construction of Embankment with Material obtained from Borrow pits Providing, laying, spreading and compacting embankment with borrow material as per Drawing and Technical Specifications.	cum	759.08
70		b. Providing, laying, spreading and compacting embankment with roadway cutting material and compact to the required density as per Drawing and Technical Specifications. (With machine)	cum	385.07
26	item no:9.10	Construction of Rock fill Embankment Providing and laying of rock fill embankment with broken hard rock		
		fragments of size not exceeding 300 mm laid in layers not exceeding 500 mm thick including filling of surface voids with stone spalls, blinding top layer with granular Material, rolled to required density all complete as per Drawing and Technical Specifications. (Excluding transportation)	cum	484.10
v	item no:9.12	Providing and laying of Filter media with granular Material/stone crushed aggregates 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.	cum	4,867.04
28	item no:9.13	Providing and filling sand in Foundation Trenches as per Drawing & Technical Specification	cum	4,608.70
	Section 10	SUB-GRADE		
		Scarifying Existing road Surface to a Depth of 50 mm by Manual		
29	item no 10.01	Means		# T
		a. Scarifying the existing road surface to a depth of 50 mm and disposal of scarified Material with all lifts and leads as per Drawing and Technical Specifications.	cum	51.34
		b. Scarifying the existing granular road surface to a depth of 50 mm and disposal of scarified Material with all lifts and leads within Right of way as per Drawing and Technical Specifications.(lead Upto 30m)	cum	46.00
30	item no 10.02	Scarifying Existing road Surface to a depth of 50 mm by Mechanical Means		
		a. Scarifying the existing road surface to a depth of 50 mm and disposal of scarified Material with in all lifts and 30m lead as per Drawing and Technical Specifications.	sqm	35.81
		b. 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.	sqm	153.02
31	item no 10.03	Construction of Subgrade and Earthen Shoulders with approved Material (capping layer)		
		Providing and laying sub-grade and earthen shoulders with approved Material obtained from borrow pits with all lifts & leads as per Drawing and Technical Specifications.	cum	784.89
Total Control	itiem no 10.04	Compacting Original Ground		

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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 Drawing and Technical Specifications. Loosening, leveling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve dry density as per Drawing and Technical Specifications. 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. Providing and laying of hand pack Cobble Stone (approx size 10 cm sper Drawing and Technical Specifications). Providing and laying Griand pack Cobble Stone (approx size 10 cm sper Drawing and Technical Specifications). Section 12 Sub BASE, BASE, HARD SHOULDER item no 12.1 Providing and laying Granular sub-base Material 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. A. By Mechanical means B. By Manual means Cum B. By Manual means Cum Technical Specifications. A. By Mechanical means B. By Manual means Cum B. By Mechanical means Cum B. By Mechanical means Cum Crusher Run Macadam Item no 12.3 Crusher Run Macadam and Layer of 63mm maximum size base course as per Drawing and Technical Specifications. B. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 45mm maximum size base course as per Drawing and Technical Specifications. B. Providing and maxing Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 45mm maximum size base course as per Drawing and Technical Specifications. Bem no 12.4 Footpaths and Separators A. By Mix in Place Method Providing and making footpath/separator	126.89
(i) ground upto a level of 500 mm below the sub-grade level, watered, graded and compacted in layers as per Drawing and Technical Specifications. Loosening, leveling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve dry density as per Drawing and Technical Specifications. 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. Providing and laying of hand pack Cobble Stone (approx size 10 cm of 9 cm of 9 cm) with granular material bedding on prepared surface as per Drawing and Technical Specifications. Section 12 Sub BASE, BASE, HARD SHOULDER item no 12.1 Providing and laying Granular Sub-Base Material 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. A. By Mechanical means B. By Manual means cum B. By Manual means cum Providing, laying, spreading and compacting Water bound macadam including brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density as per Drawing and Technical Specifications. A. By Manual means B. By Mechanical means cum tem no 12.3 Crusher Run Macadam Base and sub-base a. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 63mm maximum size sub-base course as per Drawing and Technical Specifications. b. Providing and maxing Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 45mm maximum size base course as per Drawing and Technical Specifications. Providing and making footpath/separator of 150 mm compacted granular sub base and 25 mm thick cement conc	126.89
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thick stones and packing with smaller stone on prepared surface as per Drawing and Technical Specifications. Providing and laying of hand pack Cobble Stone (approx size 10 cm * 9 cm * 9 cm) with granular material bedding on prepared surface as per Drawing and Technical Specifications. Section 12 SUB BASE, BASE, HARD SHOULDER item no 12.1 Providing and laying Granular Sub-Base Material 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. A. By Mechanical means Sub Base, Base, Hard Shoulder Providing, and laying, spreading and compacting Water bound macadam including brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density as per Drawing and Technical Specifications. A. By Manual means B. By Mechanical means cum B. By Mechanical means cum Crusher Run Macadam Base and sub-base a. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 63mm maximum size sub-base course as per Drawing and Technical Specifications. D. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 45mm maximum size sub-base course as per Drawing and Technical Specifications. D. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 45mm maximum size base course as per Drawing and Technical Specifications. A. By Mix in Place Method Providing and making footpath/separator of 150 mm compacted granular sub base and 25 mm thick cement mortar 1:3 including provision of all drainage arrangements but excluding Kerb channel as	80.11
* 9 cm * 9 cm) with granular material bedding on prepared surface as per Drawing and Technical Specifications. **Section 12** **Sub Base, Base, Hard Shoulder* **Providing and laying Granular Sub-Base Material **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. **A. By Mechanical means cum **B. By Manual means cum **B. By Manual means cum **Providing, laying, spreading and compacting Water bound macadam including brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density as per Drawing and Technical Specifications. **A. By Manual means cum **B. By Mechanical means cum **B. By Mec	7,888.85
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A. By Mechanical means B. By Manual means Cum Water Bound Macadam Providing, laying, spreading and compacting Water bound macadam including brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density as per Drawing and Technical Specifications. A. By Manual means Cum B. By Mechanical means Crusher Run Macadam Base and sub-base a. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 63mm maximum size sub-base course as per Drawing and Technical Specifications. b. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 45mm maximum size base course as per Drawing and Technical Specifications. Technical Specifications. Footpaths and Separators A. By Mix in Place Method Providing and making footpath/separator of 150 mm compacted granular sub base and 25 mm thick cement concrete grade M 15, over laid with pre-cast concrete tiles in cement mortar 1:3 including provision of all drainage arrangements but excluding Kerb channel as	
item no 12.2 Water Bound Macadam Providing, laying, spreading and compacting Water bound macadam including brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density as per Drawing and Technical Specifications. A. By Manual means B. By Mechanical means Crusher Run Macadam Base and sub-base a. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 63mm maximum size sub-base course as per Drawing and Technical Specifications. b. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 45mm maximum size base course as per Drawing and Technical Specifications. Technical Specifications. Technical Specifications. A. By Mix in Place Method Providing and making footpath/separator of 150 mm compacted granular sub base and 25 mm thick cement concrete grade M 15, over laid with pre-cast concrete tiles in cement mortar 1:3 including provision of all drainage arrangements but excluding Kerb channel as	4,307.19
Providing, laying, spreading and compacting Water bound macadam including brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density as per Drawing and Technical Specifications. A. By Manual means B. By Mechanical means Crusher Run Macadam Base and sub-base a. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 63mm maximum size sub-base course as per Drawing and Technical Specifications. b. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 45mm maximum size base course as per Drawing and Technical Specifications. Footpaths and Separators A. By Mix in Place Method Providing and making footpath/separator of 150 mm compacted granular sub base and 25 mm thick cement concrete grade M 15, over laid with pre-cast concrete tiles in cement mortar 1:3 including provision of all drainage arrangements but excluding Kerb channel as	4,350.35
B. By Mechanical means Crusher Run Macadam Base and sub-base a. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 63mm maximum size sub-base course as per Drawing and Technical Specifications. b. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 45mm maximum size base course as per Drawing and Technical Specifications. Footpaths and Separators A. By Mix in Place Method Providing and making footpath/separator of 150 mm compacted granular sub base and 25 mm thick cement concrete grade M 15, over laid with pre-cast concrete tiles in cement mortar 1:3 including provision of all drainage arrangements but excluding Kerb channel as	
B. By Mechanical means Crusher Run Macadam Base and sub-base	6,523.20
a. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 63mm maximum size sub-base course as per Drawing and Technical Specifications. b. Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of 45mm maximum size base course as per Drawing and Technical Specifications. item no 12.4 Footpaths and Separators A. By Mix in Place Method Providing and making footpath/separator of 150 mm compacted granular sub base and 25 mm thick cement concrete grade M 15, over laid with pre-cast concrete tiles in cement mortar 1:3 including provision of all drainage arrangements but excluding Kerb channel as	5,537.60
Technical Specifications. Footpaths and Separators A. By Mix in Place Method Providing and making footpath/separator of 150 mm compacted granular sub base and 25 mm thick cement concrete grade M 15, over laid with pre-cast concrete tiles in cement mortar 1:3 including provision of all drainage arrangements but excluding Kerb channel as	4,991.94 5,426.12
A. By Mix in Place Method Providing and making footpath/separator of 150 mm compacted granular sub base and 25 mm thick cement concrete grade M 15, over laid with pre-cast concrete tiles in cement mortar 1:3 including provision of all drainage arrangements but excluding Kerb channel as	
Providing and making footpath/separator of 150 mm compacted granular sub base and 25 mm thick cement concrete grade M 15, over laid with pre-cast concrete tiles in cement mortar 1:3 including sqm 2 provision of all drainage arrangements but excluding Kerb channel as	
per Drawing and Technical Specifications.	25,982.44
Dry Bound Macadam A. By Manual Means	
Providing, laying, spreading and compacting stone aggregates of specific sizes to dry bound macadam including spreading in uniform thickness, hand packing, rolling and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, and compacting to the required density as per Drawing and Technical Specifications. Wet Mix Macadam	7,224.98
Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC laying in uniform layers in sub- base / base course on well prepared surface and compacting to achieve required density as per Drawing and Technical Specifications.	

CONTRACT RATE

			COI	NTRACT RATE
SN	SECTION	ITEMS DESCRIPTION	UNIT	Rate (Nrs)
		A. Base course with B1 material	cum	5,653.65
1000		B. Base course with B2 material	cum	5,675.52
		C. Sub Base course with S1 material	cum	5,676.65
		D. Sub Base course with S2 material	cum	5,698.52
		D. Oub Base course with 62 material	Odin	0,000.02
	Section 13	BITUMINOUS SURFACE AND BASE COURSE		
	Section 13			
		Providing and applying prime coat with Hot Bitumen (including cutter)	8	
41	item no 13.1	on prepared surface of granular base including cleaning of road		
		surface and spraying as per Technical Specification .		
		A. Prime Coat, with MC 30 / 70 by Mechanical Means	sqm	110.76
		B. Prime Coat, with MC 30 / 70 by Bitumen , by manual means	sqm	230.65
		C. Prime Coat, with Emulsion by Mechanical Means	sqm	188.40
		D. Prime Coat with emulsion, for manual works	sqm	201.49
42	item no 13.2	Tack Coat		
		Providing and applying tack coat with hot Bitumen at specified rate on		
		the prepared non-bituminous surfaces including cleaning as per		
	li i	Technical Speciation .		
		A. Tack coat with Bitumen By Mechanical Means	eam	109.51
			sqm	194.89
		B. Tack coat with Bitumen by Manual Means	sqm	
		C. Tack coat with Emulsion By Mechanical Means	sqm	102.37
		D. Tack coat with Emulsion By Manual Means	sqm	147.23
43	Item No 13.06	Penetration Mecadam		
44	Item No 13.06.01	Providing and laying semi-grouting with compaction 50mm thickness	sqm	1,043.32
45	Item No 13.06.02	Providing and laying semi-grouting with compaction 75 mm thickness	sqm	1,373.55
46	Item No 13.06.03	Providing and laying full-grouting with compacted 50mm thickness	sqm	1,222.45
427	Item No 13.07	Providing and laying sand Seal	sqm	151.94
48	Item No 13.08	Providing mixing and laying slurry seal		
49	Item No 13.08.01	Fine slurry mix	sqm	174.34
50		Normal slurry mix	sqm	190.65
51		Coarse slurry mix	sqm	217.10
RD	Item No 13.09	Providing, Mixing, Laying and Compaction of Premix Carpet	cum	19,546.60
E2	Item No 13.10	Bituminous Concrete / Asphalt Concrete	Cuiti	13,540.00
1900	11011110 13.10	Providing and laying Bituminous concrete/ Asphalt concrete using		
				00 004 04
		crushed aggregates of specified grading, premixed with bituminous	cum	22,831.84
		binder and filler as per Drawing and Technical Specifications		
	Section 14	KERBS AND FOOTPATH		
54	Item No 14.10	Precast Cement Concrete M 20 Kerb		
		Providing and laying of M25/20 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	rm	1,589.40
		excluding foundation concrete for foundation or sand gravel material,		, , , , , , , , , , , , , , , , , , , ,
		all complete as per Drawing and Technical Specifications.		
SE.	Item No 14.20	Cast in Situ Cement Concrete or natural stone block for footpath		
1000	11011110 14.20	A. Providing and laying of precast / cast in situ 50 mm thick cement		
		concrete slab footpath on 12 mm thick 1: 3 cement sand mortar over	sqm	1,494.92
		the prepared base, all complete as per Drawing and Technical		
		Specifications.		
		B. Providing and laying 25 mm thick Natural stone slab footpath on 12		
		mm thick 1: 3 cement sand mortar over the prepared base, all	sqm	1,817.66
		complete as per specification.		
-	Item No 14.30	Brick work for footpath		
		A. Providing and laying brick on edge over 60 mm thick sand bed in		
		footpath including excavation sand bedding all complete as per	sqm	1,949.05
		Drawing and Technical Specifications.		.,0
		B. Providing and laying flat brick over 60 mm thick sand bed in		
			eam	1 195 74
		footpath including excavation sand bedding all complete as per	sqm	1,185.74
		specification.		
11111	Section 15	TRAFFIC SIGN, ROAD MARKING , ROAD SAFETY		

CONTRACT RATE

		NTRACT RAT
ITEMS DESCRIPTION	UNIT	Rate (Nrs)
g and erecting traffic sign in place including 50mm dia steel		
nm thick steel plate ,cement concrete,painting,writing and		
ng steel angle nuts and bolt etc complete n Dia. circular 60 cm .equilateral triangle and 60cm*45cm		
ular shapped sign(single post)	nos	2,547.58
*0.75m size bigger traffic sign with back support and two or		
est	nos	6,747.75
g and applying paint for road marking including cleaning		
g,brooming ect all complete(10cm wide strip)		
coats over old painted surface	m	37.28
than two coats over new surface	m	64.08
ng and placing R.C.C. kilometer post including excavation	—	01.00
painting and writing etc.all complete as per specification		
ard kilometer post (placed at each kilometer)	nos	4,158.64
er Km post(placed at each 5 KM)		.,
ng and fixing in place R.C.C delineator and guard post		
g excavation ,back filling,painting and errection etc.all	nos	1,632.6
e as per drawing.		
DUNDATION		
g, Boring and installing bored cast-in-situ RCC Pile excluding		
ement and Concrete in all types of soil including Bentonite		
er consumable and removal of excavated earth with		
ry lifts and lead all complete as per Drawing and Technical		
ations.		
iameter-500 mm	rm	5,360.1
diameter-600 mm	rm	6,771.43
diameter-750 mm	rm	10,295.1
diameter-1000 mm	rm	13,669.36
diameter-1200 mm	rm	17,509.33
g, Boring and installing bored cast-in-situ RCC Pile excluding		
ement and Concrete in all types of Rock including Bentonite		
er consumable and removal of excavated material with	179	
ry lifts and lead all complete as per Drawing and Technical		
ations .		
iameter-300 mm	rm	7,608.06
liameter-500 mm	rm	10,065.49
diameter-600 mm	rm	13,992.05
diameter-750 mm	rm	14,940.11
liameter-1000 mm	rm	23,583.17
VORK, FORMWORK AND SURFACE FINISH FOR	-	
ETE STRUCTURES		
g , Preparing and Installing form work including necessary		
and removing after completion for foundation and footings.		
timber (soft wood)	aam	701 53
g , Preparing and Installing form work including necessary	sqm	781.53
and removing after completion for slab structure [class F2		
alsework not included).		
timber planks	eam	1,012.22
g , Preparing and Installing form work & removing after	sqm	1,012.22
on for Slab & beam structure."		
timber	sam	1,393.37
g and assembling in position falsework for the construction of	sqm	1,080.07
perstricture and removing after completion including design &		
s as per specification.		
timber		
more than 2m and upto 4m	sqm	5,041.98
Beam Bridges	34111	5,041.90
upto 3m	sam	9,957.60
	34111	5,557.00
TE FOR STRUCTURES		
	TE FOR STRUCTURES	

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CONTRACT RATE SECTION ITEMS DESCRIPTION LINIT Rate (Nrs) CONCRETE FOR STRUCTURES n no 20.1 Providing and laying of Plain Cement Concrete M 10 (or 1:3:6 for nominal mix) in Foundation complete as per Drawing and Technical Specifications 12,718.35 By Mechanical means cum By Manual Means cum 12,279.51 Providing and laying of Plain/Reinforced Cement Concrete in Item no 20.2 Foundation complete as per Drawing and Technical Specifications By Mechanical means 14,811.58 a. PCC Grade M 15/40 cum b. PCC Grade M 20/40 16,172.99 cum c. PCC Grade M 20/20 16,230.72 cum d. PCC Grade M 25/20 17,304.49 cum e. PCC Grade M 30/20 17,328.26 cum By Manual means a. PCC Grade M 15/40 14,690.07 cum b. PCC Grade M 20/40 16,051.48 cum c. PCC Grade M 20/20 cum 16,109.21 d. PCC Grade M 25/20 17,183.27 cum 17,207.33 e. PCC Grade M 30/20 cum Providing and laying , fitting and placing un-coated Mild steel / HYSD Item no 20.3 reinforcement complete in foundation as per drawing and technical 124471.40 ton Providing and laying of Plain/Reinforced cement concrete in sub-Item no 20.4 structure complete as per drawing and Technical Specifications a. PCC Grade M 15 (Height upto 5 m) cum 15,666.10 b. PCC Grade M 20/40 (Height upto 5 m) 17,106.05 cum c1. PCC Grade M 25/20 (Height upto 5 m) cum 18,346.93 c2. PCC Grade M 25/20 (Height upto 5-10 m) 19,014.09 cum c3. PCC Grade M 25/20 (Height above 10 m) cum 19,848.04 d1. PCC Grade M 30/20 (Height upto 5 m) cum 18,416.51 d2. PCC Grade M 30/20 (Height above 5 m to 10 m) 19.086.20 cum d3. PCC Grade M 30/20 (Height above 10 m) 19,923.31 cum Providing and laying, fitting and placing HYSD bar reinforcement in Item no 20 5 126,555.20 sub-structure complete as per Drawing and Technical Specifications Providing and laying ,fitting and placing Mild steel reinforcement Item no 20.6 130,557.20 ton complete in sub-structure as per drawing and Technical Specification Providing and laying weep holes in Brick dry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 110 mm dia HDPE pipe, extending through the full width of the structure with slope of 1V Item no 20.7 m 607.07 :20H towards drawing face Complete as per Drawing and Technical Specifications.(the size of the weep hole shall be 150 mm x 80 mm or circular with 150 mm diameter) SUPER STRUCTURE Providing and laying of Reinforced/ Pre-stressed cement concrete in 774 Item no 20.8 super-structure as per drawing and Technical Specification A. PCC Grade M 20/20 a. For solid slab super-structure (i)Height upto 5 m 23,253.87 cum (ii) Height above 5 m to 10 m cum 24,029.00 24,804.13 (iii) Height above 10 m cum b. For T-beam & slab, 24,804.13 (i)Height upto 5 m cum (ii) Height above 5 m to 10 m 25,579.25 cum 26,354.38 (iii) Height above 10 m cum B. PCC Grade M 25/20 a. For solid slab super-structure (i)Height upto 5 m 24,904.69 cum (ii) Height above 5 m to 10 m 25,734.85 cum (iii) Height above 10 m 26,565.01 cum

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b. For T-beam & slab,

(i)Height upto 5 m

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cum

26,565.01

CONTRACT RATE

			COR	TRACT RATE
5N	SECTION	ITEMS DESCRIPTION	UNIT	Rate (Nrs)
000	02011011	(ii) Height above 5 m to 10 m	cum	27,395.16
		(iii) Height above 10 m	cum	28,225.32
-		C. PCC Grade M 30/20		
		a. For solid slab super-structure		
		(i)Height upto 5 m	cum	25,320.42
		(ii) Height above 5 m to 10 m	cum	26,164.43
		(iii) Height above 10 m	cum	27,008.45
		b. For T-beam & slab,	- Cuiii	27,000.10
			cum	27,008.45
		(i) Height upto 5 m	cum	27,852.46
		(ii) Height above 5 m to 10 m	cum	28,696.47
		(iii) Height above 10 m	Culli	20,000.47
75	Item no 20.9	Providing and laying , fitting and placing HYSD bar reinforcement in super-structure complete as per drawing and technical specifications	ton	126,311.40
76	Item no 20.10	Providing and laying of PCC M 15 Grade leveling course below approach slab complete as per drawing and Technical specification	cum	14,241.91
	Section 24	RIVER TRAINING AND PROTECTION WORKS		
77	Item no 24.1	Gabion Structure for Retaining Earth		
-		Providing and laying Gabion structure for retaining earth with		
		diaphragm including rolling, cutting weaving, placing, laying sides		
		and diaphragms with binding wire and filling boulders all complete as		
		per Drawing and Technical Specification		
		A. Mesh wire- 10 Swg(0.0615 kg/m), Selvedge Wire 8 Swg (0.1057		
		kg/m), binding wire 12 Swg (0.0409 kg/m) Hexagonal mesh Type 100		
		mm X 120 mm.		
		(i) Box size 3 X 1 X 1 m (16 sqm)	cum	6,967.93
		(I) Box size 3 × 1 × 1 III (10 sqiii)	cum	7,039.48
-		("") B		7,401.84
		(iii) Box size 1.5 X 1 X 1 m (9 sqm)	cum	7,418.63
		(iv) Box size 1.0 X 1 X 1 m (6 sqm) B. Mesh wire- 10 Swg(0.0615 kg/m), Selvedge Wire 8 Swg (/m), binding wire 12 Swg (0.0409 kg/m) Hexagonal mesh Type 80 mm X	cum	7,410.00
		100 mm,		
		(i) Box size 3 X 1 X 1 m (16 sqm)	cum	7,398.80
		(ii) Box size 2 X 1 X 1 m (11 sqm)	cum	7,476.84
		(iii) Box size 1.5 X 1 X 1 m (9 sqm)	cum	7,694.57
		(iv) Box size 1.0 X 1 X 1 m (6 sqm)	cum	7,711.82
78	Item no 24.7	GEOSYNTHETIC AND REINFORCED EARTH		
-	Item no 24.7	Sub-Surface Drain with Geotextiles		
		Providing and laying sub surface drain 200 mm dia using geotextiles		
		treated with carbon black to a stable network and a planar geo-		
		composite structure, joints wrapped with geotextile to prevent ingress	m	2,175.50
		of soil, including excavation and backfilling as per Drawing and	'''	2,170.00
		Technical Specifications. Providing and laying Grouted Stone Pitching in protection work, with		
				14,942.71
79	Item no 24.17	stone size not less than 0.01 cum and cement: sand mortar (1:3) all	cum	14,942.71
		complete as per Drawing and Technical Specifications.		
80		Providing and laying HDPE pipes with perforations including joining,		
	Item no 24.20	providing and laying HDPE pipes with perforations including joining		
		series II		
		(i) series II, HDPE pipe 250 mm dia	m	2,232.98
		(ii) series II, HDPE pipe 160 mm dia	m	615.04
	Section 25	BRICK WORKS FOR STRUCTURES		
		Providing and laying Brick Masonry Work in Cement mortar in		
81	Item no 25.1	Foundation / structure complete excluding Pointing and Plastering, as		
		per Drawing and Technical Specifications.		
		A. Cement sand mortar (1:2)	cum	17,641.74
		B. Cement sand mortar (1:3)	cum	17,020.65
		C. Cement sand mortar (1:4)	cum	16,591.57
		D. Cement sand mortar (1:4)	cum	16,169.63
		TO Cement Sano monar (1.0)	Culli	10, 100.00

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SN	SECTION	ITEMS DESCRIPTION	UNIT	Pate (Nrs)
	CLOTION	Providing and laying Brick masonry work in superstructure/ sub-	UNIT	Rate (Nrs)
12	Item no 25.2	structure complete excluding pointing and plastering, as per drawing		
	110111110 2012	and Technical Specifications		
		A. Cement sand mortar (1:2)	cum	17,688.8
		B. Cement sand mortar (1:3)	cum	18,378.8
		C. Cement sand mortar (1:4)	cum	17,928.3
		D. Cement sand mortar (1:6)	cum	17,485.2
20	Itama na OF 2	Providing, and applying Pointing with cement mortar (1:3) on brick		
B3	Item no 25.3	work in structure as per Technical Specifications .	sqm	302.3
B4	Item no 25.4	Providing and applying 12.5 mm thick Plaster with cement mortar on		
	116111110 25.4	brick work structure as per Technical Specifications		
		A. Cement Mortar 1:2 (1 cement : 2 sand)	sqm	494.5
		B. Cement Mortar 1:3 (1 cement : 3 sand)	sqm	452.9
		C. Cement Mortar 1:4 (1 cement : 4 sand)	sqm	429.8
ш		Providing and laying weep holes in Brick works / Masonry/ Plain/		
B5	Item no 25.5	Reinforced concrete abutment, wing wall/ return wall with 100 mm dia	m	774.9
		HDPE pipe as per Drawing and Technical Specifications.		
	Section 26	MASONRY FOR STRUCTURES		
86	Item no 26.1	Providing and laying of dry Stone Masonry Work as per Drawing and	cum	6,352.6
		Technical Specifications.	Cuili	0,332.0
37	Item no 26.2	Providing and laying of Random rubble stone Masonry in mud Mortar	cum	7,915.7
		as per Drawing and Technical Specifications.	Cuiii	7,915.7
		Rubble Random Masonry		
		Providing and laying of Stone Masonry Work in Cement Mortar 1:3 in		
88	Item no 26.3.1	Foundation complete as per Drawing and Technical Specifications.	cum	12,885.9
		- Carriageon complete de per Brawing and recrimeal opecinications.		
ш		Providing and laying of Stone Masonry Work in Cement Mortar 1:4 in		
19	Item no 26.3.2	Foundation complete as per Drawing and Technical Specifications.	cum	12,319.3
		Touristic action of Brawing and Technical Opecinications.		
ш		Providing and laying of Stone Masonry Work in Cement Mortar 1:6 in		
30	Item no 26.3.3	Foundation complete as per Drawing and Technical Specifications.	cum	11,675.46
10日	Item no 26.4	Providing and laying Stone Masonry work in cement mortar 1:3 in		
-		structure complete as per drawing and Technical Specifications A. Random Rubble Masonry		44.454.4
-			cum	14,451.19
		B. Coursed rubble Masonry (first sort) Providing and laying Stone Masonry work in cement mortar 1:4 in	cum	14,802.9
12	Item no 26.5			
		structure complete as per Drawing and Technical Specifications A. Random Rubble Masonry (uncoursed)	01100	13,853.7
н		B. Coursed rubble Masonry (first sort)	cum	
		Providing and lying Stone Masonry work in cement mortar 1:6 in	cum	14,229.18
13	Item no 26.6	structure complete as per Drawing and Technical Specifications		
п		A. Random Rubble Masonry (coursed/uncoursed)	cum	13,263.50
п		B. Coursed rubble Masonry (first sort)	cum	13,707.67
		Providing and Pointing with cement mortar on masonry work in	Cuiti	13,707.07
54	Item no 26.7	structure as per Technical Specifications		
		A. cement mortar (1:3)	sqm	298.82
п		B. cement mortar (1:2)	sqm	313.4
111		C. cement mortar (1:1)	sqm	348.39
100			- Cqiii	010.00
	Section 29	MAINTENANCE OF ROAD		
		Carryout Routine (regular maintenance) of Black top/ Gravel road in		
6	Item no 29.1	Hilly area as per Technical Specifications and direction of the	km-day	62.10
		Engineer,	day	02.10
5	Item no 29.3	Providing required material and carryout Routine (regular + reactive	km/yr	218,606.01
	20.0	maintenance) of Black top road as per Technical Specifications.	Kill y	210,000.0
7	Item no 29.4	Restoration of Rain Cuts		
		Providing and restoration of rain cuts in embankment slopes as per		
			cum	914.25

CONTRACT RATE

CONT.	CECTION		CO	NTRACT RATI
277	SECTION	Providing and restoration of rain subscription	UNIT	Rate (Nrs)
		Providing and restoration of rain cuts with surrounding material benching for 300mm width, laying fresh Material in layers not		
98	Item no 29.5	exceeding 250mm and compacting to restore the original alignment,		
	110111110 20.0	levels and slopes as perTechnicalSpecification and direction of the		
		Engineer.		
		A. Manual means	01100	000.04
		B. Mechanical Means including conveyance of earth from other	cum	923.91
		surrounding area with 10m lead	cum	727.26
99	Item no 29.7	Maintenance of Earthen Shoulder (filling with fresh soil)	 	
		Providing and making up loss of Material/irregularities on shoulder to		
		the design level by adding fresh approved soil and compacting as per	sqm	82.29
		Technical Specification and direction of the Engineer		02.20
mao	Item no 29.8	Maintenance of Earth Shoulder (stripping excess soil)		
ш		Stripping excess soil from the shoulder surface to achieve the		
		approved level and compacting as perTechnical Specifications and	sqm	51.06
		direction of the Engineer.		
		Providing, laying and restoration of rain cut swith gravel or river bed		
-	ltama ma 00 0	Material, benching for 300mm width, laying fresh Material in layers		
101	Item no 29.9	not exceeding 250mm and compacting to restore the origin	cum	5,158.42
		alalignment, levels and slopes as per Technical specifications and		
1172	Item no 29.10	direction of the Engineer.		
III I	110 29.10	Maintenance of bituminous surface road with Emulsion (i) \Providing required material and repair to potholes including		
ш		removal of failed material, trimming the sides to vertical, leveling the		
81		bottom cleaning filled with 75mm Diturning are sides to vertical, leveling the		
81		bottom, cleaning, filled with 75mm Bituminous macadam applying bitumen/emulsion prime coat and tack coat as per Technical	cum	15,588.04
ш		Specifications and direction of the Engineer.		
61		(ii) Providing required material and repair potholes including removal		
80		of loose material, trimming of sides, cleaning of surface applying tack	sqm	342.87
81		coat,20mm thickpre-mix carpet and seal coat with bitumen emulsion	Sqiii	342.07
		as per Technical Specifications and direction of the Engineer.		
103	Item no 29.11	Filling Pot-holes and Patch Repairs		
ш		Providing required material and repair the the pot holes including		
81		removal of failed material, trimming and finishing the surface applying		
81		tack coat on the sides and base of excavation, backfilling withhot		
ш		bituminous Material and compaction as per Technical Specification		
		and instruction of the Engineer.		
ы		A. Filling Pot-holes and Patch Repairs with open-Graded Premix	sqm	375.41
		surfacing, 20 mm.	04	070.41
ш		B. Filling Pot-holes and Patch Repairs with Bituminous concrete, 40 mm.	sqm	978.36
174	Item no 29.12	Crack Filling	- 4	
	10111110 20.12	Providing and filling of crack usings low-curing bitumen emulsion and		
ш		applying crusher dust in case crack are wider than 3mm as per		40.70
ш		Technical Specifications and instruction of the Engineer	m	12.73
05	Item no 29.13	Dusting		
		Providing and applying crusher dust to areas of road where bleeding		
ш		of excess bitumen has occurred as per Technical Specifications and	eam	6.41
	п	direction of the Engineer.	sqm	0.41
06	Item no 29.14	Slurry Seal		
		Providing and laying slurry seal consisting of amixture of fine		
		aggregates, Portland cement filler, bituminous emulsion and water on		
ш.		a road surface including cleaning of surface, mixing of slurry seal in a		
ш		suitable mobile plant, laying and compacting to provide even riding		
		surface		
		A. 5 mm thickness	sqm	304.73
		B. 3 mm thickness	sqm	550.54
		C. 1.5 mm thickness		528.29
	11		sqm	320.29
	Item no 29.19	Land Slide Clearance in soil	Sqiii	520.29
17	Item no 29.19		cum	18.63

Prepared by

Checked by

Approve

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Sec CE Item Item	ection 30 m no 30.1 m no 30.2	B. Clearance of land slides in soil and ordinary rock by machine and disposal of the same on the valley side or loaded to a truck. SUB-SURFACE GEOTECHNICAL INVESTIGATION Excavation of pits/trenches for sub-surface Geo-technical investigation in mixed soil and lifting of material all complete (Length & breath depending upon working condition) as per direction of the Engineer. I. Depth up to 3 m II. Depth up to 3 - 4.5 m Mobilisation and Demobilisation of drilling / Boring equipments, accessories, etc for sub-surface Geo-technical investigation as per	cum	37.95 862.50
Item	m no 30.1	disposal of the same on the valley side or loaded to a truck. SUB-SURFACE GEOTECHNICAL INVESTIGATION Excavation of pits/trenches for sub-surface Geo-technical investigation in mixed soil and lifting of material all complete (Length & breath depending upon working condition) as per direction of the Engineer. I. Depth up to 3 m II. Depth up to 3 - 4.5 m Mobilisation and Demobilisation of drilling / Boring equipments,	cum	862.50
Item	m no 30.1	SUB-SURFACE GEOTECHNICAL INVESTIGATION Excavation of pits/trenches for sub-surface Geo-technical investigation in mixed soil and lifting of material all complete (Length & breath depending upon working condition) as per direction of the Engineer. I. Depth up to 3 m II. Depth up to 3 - 4.5 m Mobilisation and Demobilisation of drilling / Boring equipments,	cum	862.50
Item	m no 30.1	Excavation of pits/trenches for sub-surface Geo-technical investigation in mixed soil and lifting of material all complete (Length & breath depending upon working condition) as per direction of the Engineer. I. Depth up to 3 m II. Depth up to 3 - 4.5 m Mobilisation and Demobilisation of drilling / Boring equipments,		
Item	m no 30.1	Excavation of pits/trenches for sub-surface Geo-technical investigation in mixed soil and lifting of material all complete (Length & breath depending upon working condition) as per direction of the Engineer. I. Depth up to 3 m II. Depth up to 3 - 4.5 m Mobilisation and Demobilisation of drilling / Boring equipments,		
Item		investigation in mixed soil and lifting of material all complete (Length & breath depending upon working condition) as per direction of the Engineer. I. Depth up to 3 m II. Depth up to 3 - 4.5 m Mobilisation and Demobilisation of drilling / Boring equipments,		
Item		& breath depending upon working condition) as per direction of the Engineer. I. Depth up to 3 m II. Depth up to 3 - 4.5 m Mobilisation and Demobilisation of drilling / Boring equipments,		
Itel	m no 30.2	Engineer. I. Depth up to 3 m II. Depth up to 3 - 4.5 m Mobilisation and Demobilisation of drilling / Boring equipments,		
Itel	m no 30.2	I. Depth up to 3 m II. Depth up to 3 - 4.5 m Mobilisation and Demobilisation of drilling / Boring equipments,		
Itel	m no 30.2	II. Depth up to 3 - 4.5 m Mobilisation and Demobilisation of drilling / Boring equipments,		
Itel	m no 30.2	Mobilisation and Demobilisation of drilling / Boring equipments,	cum	
Itel	m no 30.2	accessories, etc for sub-surface Geo-technical investigation as per		1,069.50
Itel		accessories, etc for sub-surface Geo-technical investigation as per		
		direction .		
		I. BT Surfaced Road (Speed with load : 15 km / hour.)	Irma in h	400.00
		i. Br odnaced Noad (Speed Will Hoad . 15 km / Hour.)	km-job	462.30
	tem no	RCC Hume Pipe	+	
		A) Rcc hume pipe - NP2	+	
		For one or first pipe.	+	
		Pipe having 150 mm diameter.	+	044.07
		Pipe having 200 mm diameter.	R.m R.m	844.97
		Pipe having 250 mm diameter.		1,100.85
		Pipe having 300 mm diameter.	R.m R.m	1,351.20
		Pipe having 400 mm diameter.	R.m	1,838.53 2,500.03
		Pipe having 450 mm diameter.	R.m	2,638.43
		Pipe having 500 mm diameter.	R.m	2,938.65
		Pipe having 600 mm diameter.	R.m	3,932.64
		Pipe having 700 mm diameter.	R.m	5,050.08
		Pipe having 750 mm diameter.	R.m	5,488.55
		Pipe having 900 mm diameter.	R.m	8,176.14
		Pipe having 1000 mm diameter.	R.m	9,474.72
		Pipe having 1200 mm diameter.	R.m	11,634.85
		Pipe having 1500 mm diameter.	R.m	21,890.25
		For every subsequent pipe having a length of minimum 1 m	1 (21,000.20
		Pipe having 150 mm diameter.	R.m	827.63
		Pipe having 200 mm diameter.	R.m	1,110.13
		Pipe having 250 mm diameter.	R.m	1,360.48
		Pipe having 300 mm diameter.	R.m	1,874.99
	11	Pipe having 375 mm diameter.	R.m	2,043.21
		Pipe having 400 mm diameter.	R.m	2,536.49
		Pipe having 450 mm diameter.	R.m	2,674.89
		Pipe having 500 mm diameter.	R.m	2,975.11
		Pipe having 600 mm diameter.	R.m	4,119.19
		Pipe having 750 mm diameter.	R.m	5,854.94
		Pipe having 800 mm diameter.	R.m	6,461.50
		Pipe having 900 mm diameter.	R.m	8,862.71
		Pipe having 1000 mm diameter.	R.m	10,161.29
		Pipe having 1200 mm diameter.	R.m	13,002.80
		Pipe having 1500 mm diameter.	R.m	23,413.45
Iter	ection	HDPE DOUBLE WALL CORRUGATED PIPE		
	tem no	Providing and laying HDPE DWC pipes for sewage and rain water		
		Non-pressure pipes		
		(i) Laying of HDPE Double Wall Corrugated Pipes (internal dia.	rm	1,232.92
		150mm)	1111	1,202.32
		(ii) Laying of HDPE Double Wall Corrugated Pipes (internal dia.	rm	1,842.42
		200mm)	1111	1,042.42
		(iii) Laying of HDPE Double Wall Corrugated Pipes (internal dia.	rm	2,336.92
		250mm)	1111	2,000.92
		(iv) Laying of HDPE Double Wall Corrugated Pipes (internal dia.	rm	3,820.42
		(300mm)	1111	5,020.42
1.		(v) Laying of HDPE Double Wall Corrugated Pipes (internal dia. 400mm)	rm	4,935.92

checked by

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SN	SECTION	ITEMS DESCRIPTION	UNIT	Rate (Nrs)
		(vi) Laying of HDPE Double Wall Corrugated Pipes (internal dia. 500mm)	rm	5,924.92
		(vii) Laying of HDPE Double Wall Corrugated Pipes (internal dia. 600mm)	rm	9,997.53
ш		(viii) Laying of HDPE Double Wall Corrugated Pipes (internal dia. 800mm)	rm	16,477.78
		(ix) Laying of HDPE Double Wall Corrugated Pipes (internal dia. 1000mm)	rm	24,591.03

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