

Tender Inviting Authority : Engg-in Chief RWD Patna

Nature of Work: Sical Dalm Rd Durbkendra TO Kuchhya tikar

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No. of Qty	Units	Estimated Rate	Rate	Amount
1.0	Setting out pillar Providing & Fixing of Bench Mark Pillars @ four nos per km as per drawings given and direction of E/I	9.00	nos	1822.64	1822.64	16403.76
2.0	Road Marking Painting lines dashes arrows etc on road in two coat	312.00	sqm	785.00	785.00	244920.00
3.0	Clearing and Grubbing Road Land (By manual means)	1.3	HAC	38296.94	38296.94	49786.02
4.0	Dismantling of dry brick pitching or Brick Soling, masonry work	183.15	cum	204.68	204.68	37498.06
5.0	Dismantling of Cement Concrete M-15 & M-20	11.14	cum	385.52	385.52	4294.09
6.0	Dismantling of Reinforced Cement Concrete	6.67	cum	898.12	898.12	5981.36
7.0	Dismantling hume pipe	1.00	NIL	0.00010	0.00	0.00
8.0	i) Upto 600 mm dia	1.00	NIL	0.00010	0.00	0.00
9.0	ii) Above 900 mm dia	1.00	NIL	0.00010	0.00	0.00
10.0	Construction of embankment with approved material obtained from borrow pits with a lead upto 100 m.	4699.00	CUM	149.94140436	149.94	634083.06
11.0	i) Excavation in cutting in soil by manual means for carrying of cut earth to embankment site with a lift up to 1.5m lead upto 50m as per technical specification clause 302.3	1.00	NIL	0.00010	0.00	0.00
12.0	Construction of Embankment with material obtained from borrow pits with a lead upto 1000 m	3132.00	CUM	168.58160682	168.58	475187.04
13.0	Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1.	5697.72	CUM	157.86	157.86	809475.0804
14.0	Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.	1127.763	CUM	1959.71	1959.71	1989069.43599
15.0	Water Bound Macadam with Stone Screenings	1.00	NIL	0.00010	0.00	0.00
16.0	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam grade-II specification including spreading in uniform thickness, hand packing, rolling with three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming, with crushable type screening material such as morrum or gravel to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 2 as per Technical Specification Clause 405.	447.52	CUM	3655.2	3655.2	1472197.5936

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✓ 17.0	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam grade-III specification including spreading in uniform thickness, hand packing, rolling with three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming, with crushable type screening material such as morrum to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.	447.52	CUM	3529.31		1421499.102	4
18.0	Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90- 1.2 kg/sqm using mechanical means as per Technical Specification Clause 502.	5967.00	SQM	41.713		223841.51	
19.0	Providing and laying Two Coat surface dressing as weaing couesd consisting of a layer of bituminous binder laid on the prepared surface. Followed a cover of crusehd stone chipping s of specified size and rolling with 80-100 kN static roller including cleaning the road surface as per Technical Specification clause 507. Case-I Nominal aggregate size 13.2 mm	5967.00	SQM	97.10327951 02954	87.39	521456.13	
✓ 20.0	Providing and laying Two Coat surface dressing as weaing couesd consisting of a layer of bituminous binder laid on the prepared surface. Followed a cover of crusehd stone chipping s of specified size and rolling with 80-100 kN static roller including cleaning the road surface as per Technical Specification clause 507. Case-II Nominal aggregate size 9.5 mm	5967.00	SQM	79.93327951 02954	74.93	429206.31	
✓ 21.0	Providing , laying seal coat sealing the voids in a bituminous surface using TypeB	1.00	NIL	0.00010	0.00	0.00	
✓ 22.0	Granular Sub-base below CC Pavement Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.	168.3	CUM	1959.71	1763.73	296835.759	
✓ 23.0	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam grade-III specification including spreading in uniform thickness, hand packing, rolling with three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming, with crushable type screening material such as morrum or gravel to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 2 as per Technical Specification Clause 405.	126.225	CUM	3529.31	3176.37	400937.3032	5

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24.0	Cement Concrete Pavement Construction of un-reinforced, plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any type as per Clause 1501.2.2 M25(Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant, construction joints, admixtures as approved, curing of concrete slabs for 14 days, using curing compound (where specified) and water finishing to lines and grade as per drawing and Technical Specification Clause 1501 Unit=cum	302.94	CUM	5758.39	5182.55	1570001.697
25.0	Laying brick soling layer on prepared sub-grade with brick on end edging according to lines, graded and cross-section shown on the drawing filling joints with sand and earth, spreading 25 mm thick layer of earth over brick soling, watering and rolling the same with three wheel road roller 80-100 kN as per Technical Specification Clause 412	1.00	NIL	0.00010	0.00	0.00
26.0	PROTECTION WORK = Providing and laying boulder apron for bed protection with stone boulders of minimum size and weight as per Table 1300.1, no fragment weighing less than 25 kg laid dry complete as per drawing and technical specifications Clause 1301	1.00	NIL	0.00010	0.00	0.00
27.0	Providing and laying pitching on slopes with stone/ Boulder laid over prepared filter media as per drawing and technical specifications Clause 1302	1.00	NIL	0.00010	0.00	0.00
28.0	Providing and laying filter material underneath pitching in slopes complete as per drawing and technical specifications Clause 1302	1.00	NIL	0.00010	0.00	0.00
29.0	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and technical specification clause 1703.	1.00	NIL	0.00010	0.00	0.00
30.0	Excavation for Structures Earthwork in excavation for drain as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material.	422.4	cum	200.93	180.83	76382.592
31.0	Providing concrete for plain/reinforced concrete in M-15 in open foundations and side walls of drain complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203	277.2	cum	5075.4	4567.86	1266210.792
32.0	Supplying, fitting and placing HYSD bar reinforcement (Fe 415) in substructure complete as per drawings and technical specification Clauses 1002, 1005, 1010 & 1202	16632.00	kg	46.55265624 254	41.89	696714.48
33.0	Earthwork in excavation for foundation of structures as per drawing and technical specification Clause 1104 including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material. (A) Ordinary Soil (I) Upto 1.5m depth	1.00	NIL	0.00010	0.00	0.00

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81.0	SUB HEAD: PROTECTION WORK (RCC CULVERT) Excavation for Structures Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material.	1.00	NIL	0.00010		0.00
82.0	PCC GRADE M 15 in Floor Protection & Foundation Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203	3.04	CUM	5075.4		15556.244
83.0	Providing and laying flooring laid over cement concrete bedding complete as per drawing and technical specification Clause 1303 Brick on edge laid in cement mortar (1:3)	2.03	CUM	7234.52		13217.558
84.0	Protection work (Apron) Providing and laying boulder apron for bed protection with stone boulders of minimum size and weight as per table 1300.1 no fragment weighing not less than 25 Kg laid dry complete as per dr	1.00	NIL	0.00010		0.00
85.0	Slope Protection Providing and laying boulder pitching on slopes laid over prepared filter media as per drawing and technical specifications Clause 1302	1.00	NIL	0.00010		0.00
86.0	Slope Protection Providing and laying filter material underneath pitching in slopes complete as per drawing and technical specifications Clause 1302	1.00	NIL	0.00010		0.00
87.0	1st Year Maintenance cost	2.00	KM	33820.31104 86071	60438.27	60876.54
88.0	2nd Year Maintenance cost	2.00	KM	41989.70115 4347	37790.73	75581.46
89.0	3rd Year Maintenance cost	2.00	KM	99653.38514 75141	89688.05	179376.1
90.0	4th Year Maintenance cost	2.00	KM	123775.9862 4153	111398.39	222796.78
91.0	5th Year Maintenance cost	2.00	KM	149533.2482 58145	134712.29	269424.58

Total in Figures

14910648.41
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Lowest Amount Quoted BY: AJAY KUMAR YADAV(14910648.4165303)

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