

**PRICE BID**

<b>SURAT MUNICIPAL CORPORATION</b>					
<b>Remodelling and Restructuring of Koyli creek including vehicle track in Surat(Ch. 8000 to 9500)</b>					
Sr. No.	Items	Unit	Quantity	Rate with 1% Labour cess (Rs.)	Amount (Rs.)
<b>(A) Survey &amp; investigation items</b>					
1	Clearing the creek land width including removing the shrubs, bushes, cactus, weeds other vegetation including cutting down trees up to 0.50 cm girth and depositing the removed materials outside the creek land width with all lead and lifts as directed etc complete.	sqm	30000.00	6.63	<b>198,768.00</b>
2	Cutting downs trees of different girths (30cms and higher of periphery) including removing and grubbing roots below ground level within the creek boundary including stacking the wood outside the creek boundary as directed etc complete	No	120.00	2104.06	<b>252,487.48</b>
3	Carry out complete alignment survey work by total station along creek alignment, cross roads 50m. Both sides, 100m. additional length from both ends of creek including marking of centre line of alignment, taking ground level details of existing structures, details of all manholes, catchpits, existing utility services, light poles, trees, overhead electrical lines, BSNL section pillar/ box, electrical boxes, road dividers, foot paths, etc. within construction area and additional areas/ lengths if required. Rate includes fixing necessary reference pillars, establishing bench mark, establishing foundation layout on ground, including submission longitudinal section, cross section and drawing report of survey work in three hard colour copies with soft copy in CD to Engineer-in-charge. Submission of drawing in hard copy and soft copy. Relevant specifications of MORT&H (Fifth revision) shall be used.	sqm	150000.00	26.48	<b>3,972,330.00</b>
<b>(B) Dismantalling</b>					
4	Dismantling of existing structures like building, compound wall and other structure comprising of masonry, cement concrete, steel work, including tools, plants and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and leads as directed by engineer in charge.				-
a	PCC	cum	<b>525.00</b>	528.60	<b>277,516.94</b>
b	Brick works	cum	<b>375.00</b>	343.57	<b>128,839.39</b>
c	Existing road surface (any type of road surface) up to required depth	sqm	25000.00	39.61	<b>990,305.00</b>
d	RCC	cum	<b>3000.00</b>	925.14	<b>2,775,419.40</b>
e	Removing any type of Pipes for sewer and storm water line above 300 mm dia	rmt	1000.00	396.43	<b>396,425.00</b>
f	Removing of any type of Water supply lines of any dia	rmt	2000.00	660.78	<b>1,321,564.80</b>
g	Structural steel work	kg	50000.00	4.44	<b>222,200.00</b>
<b>(C) Excavation and Earthwork</b>					
5	Excavation & Desilting of creek/streams as per design profile in allsorts of soils(including wet and slushy condition of soils) including yellow,sandy and gravelly soil sand softmurrum including depositing the excavated stuff in uniformlayers in creek banks or in spoil banks or as and where directed all lead and lift including clearing the site, dewatering, dressing the sectionetc. complete as per MORT&H Specification no. 300 and engineer in charge				
	(a) up to 1.50 m	cum	<b>13500.00</b>	116.27	<b>1,569,661.20</b>
	(b) 1.50 to 3m	cum	<b>9450.00</b>	122.89	<b>1,161,279.32</b>
	(C )3.0 to 4.50m	cum	6750.00	128.23	<b>865,549.80</b>
		<b>Total</b>	<b>29700.00</b>		

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6	Providing temporary Earthen embankment for construction of guide wall in creek in breaking clods, dressing to the design section with all lead and lift and height of embankment as under including dewatering, Rolling, Compaction, removing earth from the creek after construction work is complete to attain original section of creek as per MORT&H Specification no.305 and engineer in charge	cum	<b>144000</b>	156.01	<b>22,466,116.80</b>
	for construction of guide wall				
<b>(D) Structures</b>					
7	Excavation for cut off trench / Diaphragm wall 60 cm thick by mechanical equipment or any approved technique in overburden of all kinds of soil coarse and fine sand, pebble, etc. from top of pretrench level to cutoff level excluding boulders, soffit of sides of the trench from collapsing by circulation of bentonite slurry etc. including construction of guide wall from EGL to required depth, complete in all respect with all leads and lifts and contractor's own material as per specification and as directed by Engineer-in-charge.	sqm	<b>30000.00</b>	2458.34	<b>73,750,200.00</b>
		sqm	<b>18000.00</b>	2458.34	<b>44,250,120.00</b>
8	Providing & Placing M30 Grade concrete for Diaphragm wall by tremie method as per design & specification from tip of diaphragm wall to cut off level. (Ready Mix Concrete)	cum	<b>18000.00</b>	4491.67	<b>80,850,096.00</b>
		cum	<b>10800.00</b>	4491.67	<b>48,510,057.60</b>
9	Providing and placing in position reinforcement cage in diaphragm wall with cutting, tying, fixing including cost of binding wire, welding, etc., complete in all respects, etc. complete with all leads and lifts and as per specification and as directed by Engineer-in-charge. ( TMT - CRS) Fe 500	Qtl	<b>25920.00</b>	5002.53	<b>129,665,577.60</b>
10	Providing and laying M-15 plain ordinary Portland cement concrete of various grade with cement, sand, and coarse aggregates including centering, shuttering, batching, mixing, transporting, placing, vibrating, smooth finishing, curing complete Including Dewatering and MORT&H Specification no. 1700				
	Raft, bottom slab of barrel, footing of columns, piers, abutment and bottom slab of sump etc				
	M-15 grade	cum	<b>1125.00</b>	3776.90	<b>4,249,006.88</b>
11	Providing and laying of cement concrete of R.C.C. M30 grade as per the specifications for RCC wall as per drawing and MORT&H Specification no.1500,1700,2300 as directed by the Engineer. Rate shall include cost of form work but exclude cost of reinforcement				
	M-30 grade (Cast in situ wall)	cum	<b>9450.00</b>	4491.67	<b>42,446,300.40</b>
	M-30 grade (T Beam Girder- 20m width )	cum	<b>7650.00</b>	7033.64	<b>53,807,346.00</b>
	M-30 grade (slab)	cum	<b>5100.00</b>	4370.67	<b>22,290,437.40</b>
	M-30 grade (Retaining wall)	cum	<b>2730.00</b>	4491.67	<b>12,262,264.56</b>
	M-30 grade (Retaining wall) raft	cum	<b>1560.00</b>	4491.67	<b>7,007,008.32</b>
12	Providing and placing in position FE 500 TMT CRS Bar Reinforcement as per I.S. Standard for R.C.C Raft, Piers, Abutments, Retainingwall, Top Slab, Kerb, Approach Slab, Cutoff, Foot path including cutting bending hooking and tying complete as per detailed drawing and MORT&H Specification no. 1600	Qtl			
	TMT Girder	Qtl	<b>9180</b>	5002.53	<b>45,923,225.40</b>
	TMT Cast in situ wall	Qtl	<b>8505</b>	5002.53	<b>42,546,517.65</b>
	TMT slab	Qtl	<b>3570</b>	5002.53	<b>17,859,032.10</b>
	M-30 grade (Retaining wall)	Qtl	<b>2184</b>	5002.53	<b>10,925,525.52</b>
	M-30 grade (Retaining wall) raft	Qtl	<b>1248</b>	5002.53	<b>6,243,157.44</b>

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13	Empty boring to the required depth (measured from bottom of pile cap to founding level) by means of hydraulic piling rig through all strata like soil, sand, clay, murrum, gravel, pebble, boulder, cobble, soft rock, etc. for pile of diameter as below, supported with the help of bentonite slurry including all required plant & machineries, disposal of excavated material with all leads & lifts, mobilisation demobilisation, remobilisation if required, transportation of required plant and machineries, etc. Method of boring shall be as per IS 2911-Part 1 - Section -II. 1) Length of pile shall be measured from bottom of pile cap and upto the founding level. 2) Rate is inclusive of empty boring through overburden (i.e. temporary working platform, etc.)				
	1200 mm dia pile	rmt	<b>320</b>	2454.30	<b>785,376.00</b>
14	Supplying, fabricating and placing in position MS liner made of 6 mm thick MS plate for initial length of cast-in-situ concrete piles including all operation such as straightening, cutting, bending to shape, welding, fabricating, driving, placing in position, applying 2 coats of primer and 2 coats of anticorrosive paint etc. complete as per specification excluding temporary liner if provided. Depth of liner shall be decided by Engineer-in-charge as per site condition.	MT	<b>24.28</b>	55863.10	<b>1,356,130.83</b>
15	Providing and placing with tremie reinforced cement concrete M35 grade in Pile using 6 mm to 20 mm machine crushed well graded stone aggregate, natural or crushed sand of approved quality, OPC 43/53 grade cement with contractor's own concrete mix design as approved by EIC, including necessary , mixing in fully automatic batch mix plant, transport, curing, casting of pile minimum 1 x dia. of pile above cut off level with all leads & lifts, etc. complete as per execution drawing & specification & as directed by engineer Incharge. Including mobilisation, demobilisation, remobilisation, transportation of required plant and machineries if required. 1) Excluding reinforcement, initial pile load test, routine load test and M.S. Liners but including temporary liners if required. 2) Rate is inclusive of 10% additional cement to be added over & above the quantity of cement required for design mix M-35 concrete for pile concreting in water.	Cum	<b>361.73</b>	6590.25	<b>2,383,877.95</b>
16	Chipping and dressing of the RCC piles upto cut off level (Mini. 1 x dia.) including cleaning of reinforcement and removal of dismantled materials etc. for providing pile caps as directed by Engineer and as per specifications.	Rmt	<b>19.20</b>	414.10	<b>7,950.72</b>
17	Providing and placing the reinforcement in designed position, fixing, lowering in position TMT bars Fe 500 D grade conforming to IS 1786 for Pile of all categories & depth, at all levels. The rates includes for supply, loading, unloading, transporting to site, cutting, bending, hooking, placing, tying in position with contractor's own black annealed binding wire, welding, forming the cage and lowering it in position in pile bore etc. Welding and supporting in position to ensure lines and levels during concreting, maintaining proper cover / spacing, all leads & lifts, etc. including contractor's own equipment, labour, supervisor, taxes, machineries, etc. complete as per drawings and specification. 1) The waste cut pieces shall not be included in the paying quantity. 2) Black annealed binding wire shall not be included in the paying quantity. 3) The work shall be done as per execution drawing.	Qtl	<b>904.32</b>	5002.53	<b>4,523,887.93</b>

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18	<p>Pile Load test</p> <p>a) Carrying out load test as per standard procedure laid down in the IS 2911 specification and maintaining complete records of load v/s settlement on test pile constructed for the purpose including erection and removal of loading platform with all contractor's materials, labour, tools &amp; plants, etc. complete with all necessary instrumentation, high capacity hydraulic jacks, etc. complete as per specification and for the test load as directed by Engineer-in-charge. 1) Load test shall be continued till test load or soil failure whichever is earlier. 2) Testing shall be carried out with loading frame with ground anchors/anchor piles/kentledge with platform including all necessary arrangement required for the test, as approved by Engineer-in-charge. 3) Boring, concreting &amp; reinforcement of test pile shall be measured separately in respective items subject to successful completion of test. 4) If load test of pile is not completed successfully, payment shall not be made for this test item as well as boring, concreting and reinforcement of test pile for which test carried out and another test pile shall be constructed.</p> <p>a) Initial Pile Load Test on piles in non working area in the vicinity of the bridge site excluding cost of test pile.</p>	Nos	1.00	38945.60	<b>38,945.60</b>
	b) Routine Pile Load Test on piles on working pile	Nos	1.00	38945.60	<b>38,945.60</b>
19	Performing Integrity Test (low strain) on all vertical pile. The item shall include chipping of weak concrete at the top of pile, leveling, bending of reinforcing bars, preparation of pile head including testing with pile driving analyser or approved equivalent. To be carried out at least 15 days after concreting of piles. A specialist approved Agency shall be employed by the Contractor for the test. The test shall be carried out as per relevant ASTM code. The item is including complete testing with approved apparatus, analysis of results and conclusions including submission of test reports in three hard copies with soft copy in CD.	Nos	<b>16.00</b>	1161.50	<b>18,584.00</b>
20	Providing and fixing in position 100mm dia PVC pipe weep holes in abutment, wing wall, and laying trimming etc complete	Rmt	<b>3006.00</b>	164.02	<b>493,056.14</b>
21	Providing and fixing in position PVC heavy duty water stops in barrels, trough and wing wall with 25mm wide expansion joint as shown in drawing including filling the joints with asphalt pad or bituminous or cork board of approved quality.	Rmt	<b>2700.00</b>	379.66	<b>1,025,079.30</b>
	225mm wide PVC water stop				
22	Providing, laying and fixing compressible fibre board sill flextype (Supreme industries or Equivalent make) 25mm thick in expansion joint as per technical specification and engineer in charge	sqm	<b>1620</b>	1057.67	<b>1,713,428.64</b>
23	<p>Strip Seal Expansion Joint</p> <p>Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 75 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.</p>	Rmt	<b>2700.00</b>	6120.60	<b>16,525,620.00</b>
24	Providing G.I. 100mm diameter water spouts including necessary iron gratings as per drawings	each	<b>200.00</b>	506.01	<b>101,202.00</b>
25	Providing & applying Coal Tar Epoxy of approved make like Dr. Fixit (Pidilite), Fosroc, clean coats, Sika, two component epoxy coating in two coats as per the mixing and application procedure suggested by manufacturer on the concrete surfaces. Coverage recommended is 3.0 - 4.0 m <sup>2</sup> Per ltr for two coat application at the coverage rate of approx. 250 - 300 micron DFT.	sqm	<b>18000</b>	150.49	<b>2,708,820.00</b>

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26	Earthwork in embankment using selected soil, soft and hard murrum excavated from approved borrow area/village tanks etc.including breaking clods, dressing to the design section including loading and unloading and all lift and Compaction of Earthwork in embankment in layers 15 to 20Cms at requisite moisture content to required dry density not less then 85% of corresponding proctor maximum dry density including watering, rolling with suitable type of roller etc. complete. MORT&H Specification no.305 and Excavated stuff to be dumped or used from the lead upto 500mts.			131.30	
	.....lead 5.0 km			177.21	
	.....lead 10.0km			228.67	
	.....any lead beyond 50km	cum	<b>45000.00</b>	679.84	<b>30,592,849.50</b>
<b>(E) ROAD WORK AND STREET FURNITURE</b>					
27	Providing and laying 25mm to 100mm thick compacted BITUMINOUS CONCRETE using aggregates as per gradation and percentage of asphalt for mixing shall be as arrived from mix design, provided in no case asphalt percentage shall be less than 5.5 % by Wt. of total mix as binder by drum mix type hot mix plant and laying by sensor paver finisher including consolidation by vibrator roller including providing and operating plant, sensor paver and machinery, cost of fuel, oil, lubricant and labour charges including cost of asphalt, aggregate and filler ( if found required as per mix design)etc.complete (But excluding cost of providing & applying tack coat.)	MT	<b>3800</b>	2577.52	<b>9,794,576.00</b>
28	Providing and applying Prime Coat with bitumen emulsion (Medium Grade )on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means and conforming to MORT&H Specification clause 502	sqm	<b>22500</b>	20.57	<b>462,908.25</b>
29	Providing and applying Tack coat with bitumen emulsion (Medium Grade ) using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom and conforming to MORT&H Specification clause 503	sqm	<b>22500</b>	7.89	<b>177,482.25</b>
30	Providing and laying of cement concrete of R.C.C. M35 grade as per the specifications for RCC retaining wall stem as per drawing and MORT&H Specification no.1500,1700,2300 as directed by the Engineer. Rate shall include cost of form work but exclude cost of reinforcement				
	M-35 grade for Crash Barrier	cum	<b>1350.00</b>	5016.67	<b>6,772,504.50</b>
31	Providing and placing in position FE 500 TMT CRS Bar Reinforcement as per I.S. Standard for R.C.C Raft, Piers, Abutments, Retainingwall, Top Slab, Kerb, Approach Slab, Cutoff, Foot path including cutting bending hooking and tying complete as per detailed drawing and MORT&H Specification no. 1600	Qtl			
	TMT	Qtl	<b>1215</b>	5002.53	<b>6,078,073.95</b>
32	Road marking with Hot applied Thermo Plastic compound with Reflectorising glass bend on Bituminous Surface.Providing and laying of hot applied thermo plastic compound 2.5mm thick including refelectorising glass beads @250gms per sqmt .The finished surface to be level ,uniform and free from streaks and holes.	sqm	<b>1125.00</b>	298.96	<b>336,330.00</b>

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33	Supplying of Molded Shank Raised Pavement Markers made of polycarbonate and ABS molded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 100 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30+/- 2 mm) from the body is to be a minimum value of 500 Kgf. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. (3M or Equivalent Brand)	No	<b>1000.00</b>	177.26	<b>177,260.00</b>
34	The work includes SETC & defect liability (guarantee) period of 12 months of entire streetlight system having all components GI streetlight pole, GI bracket, foundation of pole, cable, termination of cable, excavation & laying in DWC pipe of appropriate size, cable guard pipe, fitting wire, led streetlight outdoor luminaire, CCMS, pole number for identification etc. The important design aspects are as under: - I. Average illumination level = 15 lx II. Overall maintenance factor= 0.7 III. Uniformity Factor= 0.4, Transverse uniformity ratio= 0.33 IV. Span (min.) = 30 m V. Impact Resistance= IK 08 (min.) VI. CCT= 4,000 <sup>o</sup> K VII. CCMS system having remote control, monitoring, supervision, operation facility from remote location. It should have electrical data collection/ retrieving facility through GPRS/ GSM mobile. VIII. GI octagonal streetlight pole (min. coating of 85 micron)	no	<b>51</b>	51510.00	<b>2,627,010.00</b>
35	Providing and fixing in position sign boards of size 0.45m x 0.30m with M.S.angle 40mmx40mmx6mm with 3mm thick iron plate fixed in 1:5:10 prop. Concrete block size 40cmx40cmx75cm including radium paint on both side etc complete	no	<b>15.00</b>	2020.81	<b>30,312.12</b>
36	Providing and fixing in position sign boards of size 0.60m x 0.45m with M.S.angle 40mmx40mmx6mm with 3mm thick iron plate fixed in 1:5:10 prop. Concrete block size 40cmx40cmx75cm including radium paint on both side etc complete	no	<b>15.00</b>	2846.48	<b>42,697.25</b>
37	Providing and fixing in position sign boards of size 1.20m x 0.90m with M.S.angle 40mmx40mmx6mm with 3mm thick iron plate fixed in 1:5:10 prop. Concrete block size 40cmx40cmx75cm including radium paint on both side etc complete	no	<b>15.00</b>	5207.76	<b>78,116.43</b>
38	Providing 100mm thick readymade c.c. kerb of strength M-20 (size 300mm x 380mm) purchased from SMC's approved paverblock manufacturer & setting in line, level and in truly vertical position, including filling joints in C.M. 1:1 (1 part of cement : 1 part of stone dust) smooth pointing in C.M. 1:1 (1 part of cement : 1 part of coarse sand) including watering etc. complete and as directed by engineer in charge.	Rmt	<b>3000.00</b>	236.34	<b>709,020.00</b>
39	Providing and laying cement concrete 1:5:10 (1 Part of cement : 5 Part of coarse sand : 10 Part of graded stone aggregate of 40 mm nominal size) in 75 mm thick and curing complete excluding cost of formwork etc. complete.	cum	<b>202.50</b>	2058.38	<b>416,821.95</b>

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40	Supplying and filling fine sand (Pana) in 25/75 mm (Avg.) compacted thickness over the base including necessary compaction, watering etc. complete. Item includes levelling by using vibratory plates compacted machine and as directed by Engineer-in-charge.	cum	<b>202.50</b>	451.47	<b>91,422.68</b>
41	Providing interlocking type Rubber moulded cement concrete paver block of approved shape, design & colour having 60mm thickness (M-35) purchased from SMC's approved paverblock manufacturer only & fixing of fine sand bedding. Item includes levelling by using vibratory plates compacted machine. Item also includes all materials, labour, equipments, tools, plants, watering, cleaning etc. complete.	sqm	<b>2700</b>	419.15	<b>1,131,705.00</b>
42	providing and fixing post and pipe railing as per detailed drawing including 3 coats of painting to steel works complete	Rmt	<b>2000.00</b>	1174.63	<b>2,349,260.00</b>
<b>(F) STORM WATER DRAINAGE</b>					
43	providing and fixing in position (different diameter) IS NP3 class reinforced pipe with caulking the joints with cement mortar 1:1 proportion using jute string soaked in cement slurry, finishing joints, and laying pipes to the designed grade and levels, curing etc complete for all lead and lifts				
	300mm dia	M	<b>700</b>	1190.00	<b>833,000.00</b>
	450mm dia	M	<b>700</b>	2140.00	<b>1,498,000.00</b>
	600mm dia	M	<b>700</b>	3060.00	<b>2,142,000.00</b>
	900mm dia	M	<b>3000</b>	5660.00	<b>16,980,000.00</b>
	1200mm dia	M	<b>700</b>	9270.00	<b>6,489,000.00</b>
	1400mm dia	M	<b>700</b>	11920.00	<b>8,344,000.00</b>
44	providing and constructing sewer manholes, scraper manholes and unit house connection chamber, as per the type design in brick masonry in c.m.1:5sand inside and outside 15 mm thick plastering inc.m.1:3necessary 100 mm coping with reinforcement in RCCM-200 fixing C.I. step sand fixing manhole frame and covers (excluding supply of Manhole Frame)over manholes (includingExcavation) manhole type Acircular type having inside diameter of 1200mm for depth up to 4m.	Nos.	<b>100</b>	18160.00	<b>1,816,000.00</b>
45	Removing, cleaning and refixing of R.C.C. pipes of canal structure and U.G.P.L. including fixing collars for pipe joints in cement and sand including filling and chaulking joints with cement mortar of 1:1 proportion curing etc complete for all lead and lift			0.00	-
	400mm to 450mm dia pipes	m	<b>10500.00</b>	380.08	<b>3,990,840.00</b>
46	Providing and filling rubbles including hand packing and filling interstices with quarry spalls behind abutments and between returns as directed	cum	<b>2700.00</b>	907.99	<b>2,451,573.00</b>
47	Box cutting the road surface to proper slope and camber as per drawing and MORT&H clause no 301 , including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising the remaning earth locally for road work.	cum	<b>2700.00</b>	66.16	<b>178,618.50</b>
48	Providing and laying of dry lean cement concrete (DLC) of M15 grade and compacting the same with 8 to 10 Tone vibratory roller as per the Technical specifications and as per drawing and as directed by the Engineer. Rate shall include cost of formwork if any.	cum	<b>600.00</b>	4013.34	<b>2,408,001.60</b>

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<b>Sr. No.</b>	<b>Items</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate with 1% Labour cess (Rs.)</b>	<b>Amount (Rs.)</b>
49	Concrete Pavement M-30 - 250 mm thk - construction of unreinforced, dowel jointed, 250 mm thick M30 grade Reinforced cement concrete pavement as per MORT&H clause no 602,1500,1600,1700,2700 and in conformity with the lines, grades and cross sections shown on the drawings. The work shall include furnishing of all plant and equipment, materials and labour and performing all operations in connection with the work, as approved by the Engineer.The unit rate also includes full costs of Kerb constuction, contraction, expansion , construction and longitudinal joints. Itshall also includes joint filler,keys, caulking rod, debonding strip, sealent primer,joint sealent, dowel bar and tie rod. For construction of road TRIMIX vacume dewatering system shall be used.	cum	<b>750.00</b>	4700.34	<b>3,525,253.50</b>
50	Preparation of subgrade with compacting, levelling and consolidation of subgrade with miniroller/plate vibrator machine including watering and filling in depression which occur during the process as directed by Engineer-in-charge.	sqm	<b>3000.00</b>	4.55	<b>13,635.00</b>
51	Providing and fixing hot deep GI grating as per drawing. Rate shall include all cost of material, labour, tools equipments and incidental to complete the work as per specification. The hot deep galvaniseing shall be confirm to MORT&H spaecification table no 1900-3-viii.	kg	<b>3900.00</b>	151.50	<b>590,850.00</b>
52	Structural steel work riveted bolted or welded in builup for all type section in framed work including cutting hosting fixing in position and applying a priming coat of approved steel primer all comleted as per the structural designs and direction of engineer in - charge.	kg	<b>1000.00</b>	70.70	<b>70,700.00</b>
<b>Total Amount</b>					<b>824,105,062.17</b>