

GSHP-II / NCB / 06									
REHABILITATION OF SAVARKUNDALA - DHASA ROAD SH - 021 & 236									
Km 3+000 TO 12+350 (SH - 021), Km 01+010 TO 15+000 (SH - 236) AND Km 26+100 TO 49+340 (SH - 236)									
COMPARATIVE									
Sl.No	Item No	Description of Item (with brief specification and reference to Book of Specification	Quantity	Unit	Rate	Amount in Rs.	Kunal Structure Pvt. Ltd. Rajkot		
							Rate	Amount	
Bill No. 1 GENERAL ITEMS									
1	1.02	Supply of master video cassetts of important site activities with four copies complete playing time not less than 60 minutes and up to 180 minutes as per Technical Specification clause 126.	5.00	Set	10000.00	50000.00	1000.00	5000.00	
Bill No. 2 SITE CLEARANCE AND DISMANTLING									
2	2.01	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, sapling and trees up to 300mm. Removal of stumps of trees cut earlier and disposal of unserviceable materials complete as per Technical Specification Clause 201 or as directed by the Engineer..	22.53	Ha	25444.00	573253.32	3500.00	78855.00	
	2.02	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, woodwork, steel work, including T & P and scaffolding wherever necessary, disposal of unserviceable as well serviceable material with all lead and lift and dismantled material will be property of contractor.							
3	a)	a) Bituminous Pavement	5320.00	Cum	160.00	851200.00	125.00	665000.00	
4	b)	b) Non-Bituminous Pavement	9300.00	Cum	225.00	2092500.00	80.00	744000.00	
Bill No. 3 EARTH WORKS									
5	3.01	Roadway excavation necessary for construction of road way , FDR, berm and widening of shoulder including disposal of material with all leads and lifts complete in all type of soil as per Technical Specification clause 301.	36240.00	Cum	28.00	1014720.00	45.00	1630800.00	
6	3.02	Loosening and re-compacting the exing ground up to required depth or as directed by the engineer and as per Technical Specification Clause 305.	12440.00	Cum	47.00	584680.00	11.00	136840.00	
7	3.03	Construction of road embankment with approved borrow material including all leads and lifts complete as per Technical Specification Clause 305.	5540.00	Cum	106.00	587240.00	125.00	692500.00	

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8	3.04	Construction of road embankment with approved material available from the road way excavation or any other excavation under this contact complete as per Technical Specification Clause 305.	12495.00	Cum	88.00	1099560.00	60.00	749700.00
9	3.05	Construction of road subgrade with approved borrow material including all leads and lifts complete as per Technical Specification Clause 305.	23475.00	Cum	151.00	3544725.00	250.00	5868750.00
10	3.09	Construction of sand blanket layer in between embankment fill and subgrade layer by providing, laying, spreading and compacting coarse sand of specific grade in uniform layer on a prepared surface and compacting with a power roller etc complete as per drawing and Technical Specification section 400 or as directed by the engineer.	25315.00	Cum	975.00	24682125.00	400.00	10126000.00
Bill No. 4 SUB-BASEES, BASES (Non-Bituminous) and Shoulders								
	4.02	Construction of sub-base / hard shoulders with crushed stone aggregate satisfying MORT&H Specification Table 400-2 with all leads lifts complete as per Technical Specification Clause 401.						
11	a)	a) Coarse Graded Grading - I	57065.00	Cum	1088.00	62086720.00	700.00	39945500.00
12	b)	b) Coarse Graded Grading - II	20845.00	Cum	1057.00	22033165.00	715.00	14904175.00
	4.03	Construction of Wet Mix Macadam (WMM) with crushed stone material premixed with water on a prepared sub base complete as per Technical Specification Clause 406.						
13	a)	a) Mechanically laid	26115.00	Cum	1095.00	28595925.00	1000.00	26115000.00
Bill No. 5 BASE AND SURFACE COURSE (Bituminous)								
14	5.01	Providing and applying Primer Coat with bitumen emulsion 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 complete as per Technical Specification Clause 502.	81695.00	Sqm	41.00	3349495.00	27.00	2205765.00
	5.02	Providing bituminous Surface Dressing using 9.5mm nominal size of stone chipping and straight run bitumen penetration grade / cut back bitumen / emulsion complete as per Technical Specification Clause 510.						
15	b)	b) Second coat of Surface Dressing	81695.00	Sqm	52.00	4248140.00	55.00	4493225.00

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16	5.03		Providing and spraying additional quantity of binder over and above the quantity specified in Technical specification Clause 510 for first and second coat of surface dressing with straight run bitumen penetration grade / Cutback bitumen / emulsion.	12255.00	Kg	51.00	625005.00	51.00	625005.00
17	5.04		Filling pot holes and patches repairs on existing bitumenous carriage way surface as per Technical Specification Clause 3004 and as per direction of the Engineer. A. Shallow Pot Holes	10725.00	Sqm	224.00	2402400.00	350.00	3753750.00
18	5.05		Providing and laying 3mm thick slurry seal with Cationic Bitumen Emulsion cinfirming to I S 8887 complete as per Technical Specification Clause 516 and as directed by the Engineer.	8065.00	Sqm	73.00	588745.00	38.00	306470.00
19	5.06		Providing fog spray using Bitumen Emulsion (Slow setting type) confirming to IS 8887 complete as per Technical Specification Clause 3004.2 and as directed by the Engineer.	1425.00	Sqm	51.00	72675.00	15.00	21375.00
	5.07		Providing and applying tack coat with bitumen emulsion (@ 2.0 to 2.5 kg / 10sqm complete as per Technical Specification Clause 503.						
20		a)	a)2.00 to 2.50 Kg / 10 Sqm	780385.00	Sqm	9.00	7023465.00	8.00	6243080.00
21	5.08		Variation of quantity of bitumenous emulsion over and above the quantity specified in clause 503.	26955.00	Kg	38.00	1024290.00	42.00	1132110.00
22	5.09		Providing Profile Corrective Course of varying thickness necessary as per Technical Specification Clause 501.6 & 501.7 with Bituminous Macadam (grading-II) with 100-120 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed stone aggregate of specified grading premixede with bituminous binder of approved grade, transported to site, laid over a previously prepared surface with sensor paver finisher to required grade, level and alignment and rolling complete as per Technical Specification Clause 504 as per drawing or as directed by the Engineer.	14285.00	Cum	5298.00	75681930.00	4750.00	67853750.00

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23	5.10	Providing and laying 50mm to 120mm thick Dense Bituminous Macadam with 100-120 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed stone aggregate of specified grading premixede with bituminous binder of approved grade as per approved mixed design, transporing the hot mix to work site, laiying with a hydraustatic paver finisher with sensor control to required grade, level and alignment, rolling with rollers specified in Technical specification complete to achive desired compaction complete as per Technical Specification Clause 507 as per drawing or as directed by the Engineer.	17020.00	Cum	6618.00	112638360.00	5200.00	88504000.00
24	5.11	Providing and laying 30mm thick Bituminous concrete wearing course in a single layer with 100-120 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed stone aggregate of specified grading premixede with bituminous binder of approved grade as per approved mixed design, transporing the hot mix to work site, laiying with a hydraustatic paver finisher with sensor control to required grade, level and alignment, rolling with rollers specified in Technical specification complete to achive desired compaction complete as per Technical Specification Clause 509 as per drawing or as directed by the Engineer.	8870.00	Cum	7690.00	68210300.00	6400.00	56768000.00
25	5.12	Variation of quantity of binder (VG-30 grade bitumen) over and above the quantity specified in Technical specification Clause 507 and 509.	126400.00	Kg	53.00	6699200.00	51.00	6446400.00
Bill No. 6 STRUCTURES (C D works / MNBR / MJBR)								
REPAIRS AND REHABILITATION								
26	6.01	Construction of temperory diversion including across waterway for passing of traffic complete as per Technical Specification clause 112.3 and as directed by the Engineer.	1850.00	Rmt	15577.00	28817450.00	1900.00	3515000.00
	6.02	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, woodwork, steel work, including T & P and scaffolding wherever necessary, disposal of unserviceable as well serviceable material with all lead and lift and dismantled material will be property of contractor.						

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27	a)	a) Plain cement concrete / R C C	220.00	Cum	180.00	39600.00	200.00	44000.00
28	b)	b) Stone/ Brick masonry	1105.00	Cum	140.00	154700.00	200.00	221000.00
29	c)	c) Guide/Hand rails	30.00	Rmt	34.00	1020.00	50.00	1500.00
30	d)	d) Footpath / Median Kerb	30.00	Rmt	7.00	210.00	50.00	1500.00
31	e)	e) NP 3 pipes / NP 4 pipes	297.00	Rmt	78.00	23166.00	50.00	14850.00
32	f)	f) Spalling of Concrete	335.00	Sqm	7.80	2613.00	50.00	16750.00
33	g)	g) Interlocking / Chequered tiles / tiles	23.00	Sqm	86.00	1978.00	30.00	690.00
	6.03	Excavation of foundation for structures including preparation of foundation bed complete as per drawing and Technical Specification 304 in the following strata.						
34	a)	a) Ordinary Soil / Hard Soil	28235.00	Cum	78.00	2202330.00	70.00	1976450.00
35	b)	b) Ordinary rock/soft rock (not require blasting)	2925.00	Cum	136.00	397800.00	190.00	555750.00
36	6.04	a) Providing Sand filling in foundation trenches as per drawing and Technical Specification and as directed by the Engineer	3370.00	Cum	484.00	1631080.00	280.00	943600.00
37	b)	(b) Providing and laying granular material for pipe bedding of Hume Pipe culverts and replcement of soft ans loose patches in the bearing area of Box structure with layers not exceeding 300mm as per drawing and Technical Specification Clause 2904	215.00	Cum	337.00	72455.00	550.00	118250.00
38	6.05	Providing Plain Cement Concrete M15 grade in foundation complete as per drawing and Technical Specification Clause 1700.	2315.00	Cum	3591.00	8313165.00	2700.00	6250500.00
39	6.06	Reinforced concrete / PCC Grade M20 in open foundation / sub structure complete as per drawing and Technical Specification Clause 1500 and 1700. Headwall, Abutment, Pier, Wingwall.	28380.00	Cum	4388.00	124531440.00	3500.00	99330000.00
	6.07	Providing, laying and jointing RC NP-4 Hume pipe for culverts or equivalent pipes under IS 458 - 1988, approved by Engineer complete as per Technical Specification Clause 2900.						
40	a)	a) Diameter 900 mm	220.00	Rmt	3800.00	836000.00	5500.00	1210000.00
41	b)	b) Diameter 1000 mm	290.00	Rmt	4140.00	1200600.00	6300.00	1827000.00
42	b)	c) Diameter 1200 mm	165.00	Rmt	4805.00	792825.00	7500.00	1237500.00

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43	6.08	Providing and filling at the back of abutment / around pipe in layers including watering and compacting with all leads and lifts with good local sand free from earth / selected granular material as per Technical specification clause 2500.	8890.00	Cum	337.00	2995930.00	380.00	3378200.00
44	6.09	Epoxy bonding of new concrete to old concrete complete as per Technical Specification	305.00	Sqm	498.00	151890.00	1300.00	396500.00
45	6.10	Reinforced concrete / PCC Grade M25 in super structure complete as per drawing and Technical Specification Clause 1500 and 1700. Abut/Pier cap, Dirtwall, R C C slab, Approach slab, kerb etc.	315.00	Cum	5346.00	1683990.00	4200.00	1323000.00
46	6.11	Reinforced concrete / PCC Grade M30 in super structure complete as per drawing and Technical Specification Clause 1500 and 1700. Wearing Course	19.00	Cum	8556.00	162564.00	4600.00	87400.00
47	6.12	Providing and fixing in position Thermo Mechanically Treated (TMT) Fe-500 grade Reinforcement bars complete as per drawing and Technical Specification Clause 1000 and 1600.	311.00	MT	60679.00	18871169.00	51000.00	15861000.00
48	6.13	Supplying and Providing Tar Paper Bearing including rubbing down as per Technical Specification.	71.00	Sqm	55.00	3905.00	800.00	56800.00
49	6.14	Providing and fixing in position 20mm thick premoulded joint filler in expansion joint for fixed ends of simply supported spans not exceeding 10m to cater or horizontal movement up to 20mm, covered with sealent complete as per drawing and technical specification Clause 2605	122.00	Rmt	422.00	51484.00	1200.00	146400.00
50	6.15	Providing and filling joint sealing compound as per Technical Specification and as directed by The Engineer with coarse sand and 6% bitumen by weight.	137.00	Rmt	14.30	1959.10	600.00	82200.00
51	6.16	Providing P. V. C. 100mm diameter drainage spout complete as directed by the Engineer and as per Technical Specification Clause.	165.00	Nos	158.00	26070.00	250.00	41250.00
52	6.17	Providing weep holes in Brick masonry, Stone masonry, Concrete abutment, wing wall/returnwall with 100mm dia A. C./P. V. C. pipe extending through the full width of the structure with slope 1V:20H towards drawing face including porous concrete blocks complete as per Drawing and Technical Specification Clause 2706.	4990.00	Nos	54.00	269460.00	100.00	499000.00

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53	6.18		RR Stone Masonry work in Cement Mortar 1:4 for foundation, substructure, complete as per drawing and Technical Specification Clause 1400.	15.00	Cum	2493.00	37395.00	3500.00	52500.00
54	6.19		Brick masonry work in cement mortar 1:4 for foundation, sub structure and drain complete as per Drawing and Technical Specification Clause 1300.	2.00	Cum	2700.00	5400.00	4500.00	9000.00
55	6.2	a)	a) Providing and laying of filter media with granular material/ stone crushed aggregate satisfying the requirement laid down in clause 2504.2.2 of MORTh specification to a thickness not less than 600mm with smaller size towards the soil and bigger size towards the wall over entire surface behind abutment, wingwall, retaining wall to the full height compacted to a firm condition complete as per drawing and Technical Specification and as directed by the Engineer.	5935.00	Cum	354.00	2100990.00	550.00	3264250.00
56		b)	b) Filter media beneath the pitching/revetment on slopes for protection of embankment as per drawing and Technical Specification clause 2504 and as directed by the Engineer.	100.00	Cum	354.00	35400.00	550.00	55000.00
57	6.21		Pitching/revetment on slopes with cement concrete block in M15 grade conforming to section 1700 complete as per drawing and Technical Specification Clause 2504 and as directed by the Engineer.	50.00	Cum	3663.00	183150.00	3800.00	190000.00
58	6.22		Providing and laying boulder apron on river bed for protection against scour with stone boulders as per drawing and Technical Specification and as directed by the Engineer (Boulder laid dry without wire crates).	375.00	Cum	625.00	234375.00	2500.00	937500.00
59	6.23		Repairs to spalling and patches by PMC mortar 25mm to 70mm thick at soffit of slab and vertical face of bridges and culvert as per Technical Specification clause 2804 and additional specification A-3 and as directed by the Engineer.	335.00	Sqm	1768.00	592280.00	380.00	127300.00
60	6.24		Cement pointing with Cement Mortar 1:3 on brick / stone work complete as per drawing and Technical Specification Clauses 1000, 1300 and 1400.	530.00	Sqm	58.00	30740.00	150.00	79500.00
61	6.25		Cement plaster in 1:3 cement mortar as per Technical Specification Clauses 1300 and 1400.	75.00	Sqm	110.00	8250.00	250.00	18750.00

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62	6.26	Providing, fixing and erecting 50mm dia Post and Pipe railing in three rows including replacing of damaged vertical steel post of 100mmx50mm, 1.2meters high above ground level, 2 m center to center with cement concrete M 20 foundation block of required complete including primer coat of anticorrosive paint and two coats of ready mix paint of approved brand as per drawing and Technical Specification and as directed by the Engineer.	85.00	Rmt	2158.00	183430.00	650.00	55250.00
63	6.27	Providing and applying two coats of ready mix paint of approved brand on steel surface after through cleaning of surface to give an even shade as per Technical Specification and as directed by the Engineer complete.	200.00	Sqm	49.00	9800.00	70.00	14000.00
64	6.28	Providing and erecting flood gauge post on low level bridges / causeway made out of M S section 50mmx50mmx6mm and 30mmx30mmx3mm with M S sheet of 16 guage as per drawing, pre-fabricated with phospheting process and coated with best quality epoxy primer and twow coats of epoxy paint. Reflectorised sheeting in front side with marking and fxd in C C M20 45cmsx45cmsx30cms foundation block complete as per Technical Specification and as directed by the Engineer complete.	24.00	Nos	2992.00	71808.00	2500.00	60000.00
65	6.29	Construction of R C C railing of M30 grade (cast in situ) with 20mm nominal size aggregate, true to line and grade, center to center spacing between vertical post not to exceed 2000mm, leaving adequate space between vertical post for expansion, complete as per drawing and Technical Specification Clause No 1000,1500, 1700, 2200, 2815 and 2703	725.00	Rmt	1530.00	1109250.00	3500.00	2537500.00
66	6.3	Providing and casting in situ cement concrete M20 for jacketing work in pier, piercap, abutment, abutmentcap as per detailed drawing, including centering, shuttering, scaffolding wherever necessary, laying, vibrating, curing and finishing complete. The item also includes drilling holes in old structure and filling drilled holes with epoxy grout as per Technical Specification Clause 1500, 1700 and additional specification.	46.00	Cum	5522.00	254012.00	7500.00	345000.00

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67	6.31	Cleaning choked HP/Slab/Box culvert including grubbing,removal of vegetation using refuse in filling up of scoured portion and disposal of surplus material within the lead of 1000m including all leads and lifts complete as per Technical Specification Clause 312.	40.00	Rmt	35.00	1400.00	600.00	24000.00
68	6.32	Levelling and dressing over area at inlet and outlet of CD works including cleaning, grubbing of grass, vegetation etc. and disposal of surplus material within the lead of 1000m including all leads and lifts complete as per Technical Specification Clause 314.	140.00	Sqm	21.00	2940.00	125.00	17500.00
69	6.33	Painting and lettering over Cross Drainage/Retaining structures complete as per Technical Specification Clause 804.	49.00	Nos	182.00	8918.00	125.00	6125.00
Bill No. 7 DRAINAGE AND PROTECTION WORKS								
	7.01	Construction of median kerb, island kerb and footpath kerb of CC M20 including base preparation, foundation and haunch concrete complete as per drawing and Technical Specification and as directed by the Engineer.						
70	a)	a) Kerb	15.00	Rmt	206.00	3090.00	1500.00	22500.00
71	b)	b) Kerb Channel	15.00	Rmt	379.00	5685.00	1800.00	27000.00
	7.02	Providing, laying and jointing RC NP-3 Hume pipe for culverts or equivalents pipes under IS 458 - 1988, approved by Engineer complete as per Technical Specification Clause 2900.						
72	a)	a) Diameter 450 mm	5.00	Rmt	948.00	4740.00	3000.00	15000.00
73	b)	b) Diameter 600 mm	5.00	Rmt	1479.00	7395.00	3500.00	17500.00
74	7.03	Construction of Manhole including excavation, found concrete, wall cover with grating grill etc complete as per drawing and Technical Specification and as directed by the Engineer.	1.00	No	3387.00	3387.00	5000.00	5000.00
75	7.04	Providing and fixing M S grill Manhole cover complete as per drawing and Technical Specification and as directed by the Engineer.	12.00	Kgs	69.00	828.00	75.00	900.00

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76	7.05	Providing and laying interlocking C C block flooring 60mm thick made out of CC M20 complete comprising of necessary strength including 25mm to 50mm thick sand bedding in required pattern, shape, colour complete as per drawing and Technical Specification and as directed by the Engineer.	23.00	Sqm	446.00	10258.00	800.00	18400.00
77	7.06	Painting on concrete surface by ready mix paint of approved brand by applying two coats after cleaning the surface of dirt, dust, oil, grease, efflorence complete as per drawing and Technical Specification and as directed by the Engineer. On kerb of median, island and foothpath with white & black or yellow & black	115.00	Sqm	57.00	6555.00	75.00	8625.00
Bill No. 8 TRAFFIC SIGNAGE AND ROAD APPURTENANCES								
78	8.01	Metal Beam Crash barrier Providing and erecting a "W" metal beam (single row) crash barrier comprising of 3mm thick corrugated sheet metal beam rail, 70cm above road/ground level, fixed on ISMC series channel vertical post 150 x 75 x 5 mm, spaced 2m center to center, total 1.8 m high, 1.1 m below ground/road level (in found c c M15), all steel parts and fittings to be galvanised by hot dip process, all fitting to confirm IS:1364, metal beam rail to be fixed on the vertical postwith spacer of channel section 150 x 75 x 5 mm, 330 mm long cpmplete as per drawing and Technical Specification Clause 810.	1735.00	Rmt	2776.00	4816360.00	3000.00	5205000.00
	8.02	Providing and fixing Retro-reflectonised Sign boards complete as per drawing and Technical Spcification Clause 801						
	a)	a) INFORMATORY SIGNS						
79		i) Facility information / Cheverone sign 800mm x 600mm complete as per Technical Specification clause 801.	78.00	Nos	6779.00	528762.00	4000.00	312000.00
80		ii) Advance direction sign 2240 mm x 1220 mm complete as per drawing and Technical Spcification Clause 801.	22.00	Nos	31263.00	687786.00	7500.00	165000.00
81		iii) Route marker sign 450 mm x 600 mm complete as per drawing and Technical Spcification Clause 801.	6.00	Nos	5777.00	34662.00	3000.00	18000.00
82		iv) Four / Two lane Ahead sign 1200mm x 1200mm complete as per drawing and Technical Spcification Clause 801.	4.00	Nos	25900.00	103600.00	5000.00	20000.00

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83	v)	Village name board/Bump Ahead board 900mmx600mm side complete as per drawing and Technical Specification Clause 801.	42.00	Nos	8635.00	362670.00	4500.00	189000.00
	b)	b) CAUTIONARY SIGNS						
84	i)	i) Triangular 900 mm side complete as per drawing and Technical Specification Clause 801.	116.00	Nos	5932.00	688112.00	2800.00	324800.00
85	ii)	ii) Low level Hazard Marker 900mmx300mm side complete as per drawing and Technical Specification Clause 801.	46.00	Nos	5004.00	230184.00	4000.00	184000.00
86	iii)	iii) Providing and fixing Railway crossing signboards 90x90x90cms triangle plus 90x30cms additional plate complete as per drawing and Technical Specification Clause 801.	4.00	Nos	6712.00	26848.00	4000.00	16000.00
	c)	c) MANDATORY SIGNS						
87	iii)	iii) Speed limit, compulsory keep left 600mm diameter side complete as per drawing and Technical Specification Clause 801.	80.00	Nos	5643.00	451440.00	2500.00	200000.00
	d)	d) Kerb Guard Sign Board (Small)						
88		Providing and fixing sign boards made out of 2mm alluminium sheet size 240x30cms in 'U' shape as per attached drawing. Pretreated with phosphating process and acid etching coated with epoxy primer and two coats of best quality epoxy paint reflectorised with retro sheeting as per Technical Specification stand post and frame fabricated from iron angle of 50x50x50mm and 10mm sq. bar as required painted with best quality epoxy coating. The fixing at site shall be in 1:2:4 C C block of size 45x45x60cms for each leg including excavation, curing etc. complete as directed by the Engineer.	2.00	Nos	10672.00	21344.00	10000.00	20000.00
	e)	e) Jumbo bollard Sign						
89		Supplying and fixing Jumbo bollard (High Intensity Grade) made out of 1.5mm crc sheet height 155/188 cms bottom diameter 30cms. Top diameter 18cms with direction plate of 45cms diameter fabricated as per drawing. Pretreated with phodphating process. Painted with epoxy coating reflectorised with retro reflective sheeting as per specification and as directed by the Engineer complete.	2.00	Nos	7200.00	14400.00	11000.00	22000.00

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	8.03		Pavement marking with hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads @ 250 gms per sqm area, including cleaning, labour, material, tools, equipment with incidental cost complete as per the Technical Specification Clause 803.3 as per drawing or as directed by Engineer-in-Charge.						
90		a)	a) CENTER LINE / EDGE MRKING.	2920.00	Sqm	383.00	1118360.00	300.00	876000.00
			b) DIRECTIONAL ARROES, LETTERING ETC.						
91		b) i)	i) Straight arrows	4.00	No	421.00	1684.00	600.00	2400.00
92		ii)	ii) Left / Right arrows	8.00	No	476.00	3808.00	600.00	4800.00
	8.04		Providing and fixing Reinforced C C M15 grade stones of standard design as per IRC: 8 - 1980, fixing in position including painting numbering etc. complete as per drawing and Technical Specification Clause 804.						
		a)	a) NEW STONES						
93		i)	i) HECTOMETER STONES	187.00	Nos	301.00	56287.00	325.00	60775.00
94		ii)	ii) KILOMETER STONES	26.00	Nos	1166.00	30316.00	1500.00	39000.00
95		iii)	iii) 5th KILOMETER STONES	7.00	Nos	2017.00	14119.00	2500.00	17500.00
		b)	b) REMOVING AND REFIXING OF EXISTING STONES						
96		i)	i) HECTOMETER STONES	1.00	No	58.00	58.00	60.00	60.00
97		ii)	ii) KILOMETER STONES	12.00	Nos	185.00	2220.00	300.00	3600.00
98		iii)	iii) 5th KILOMETER STONES	2.00	Nos	537.00	1074.00	500.00	1000.00
	8.06		Road Delineators Providing and fixing reto-reflectorised road delineators complete as per drawing and Technical Specification clause 805.						
99		a)	a) Long delineators at start & end of median gap)	12.00	Nos	1006.00	12072.00	1100.00	13200.00
100		b)	b) Median Delineators (short on along median)	12.00	Nos	600.00	7200.00	1100.00	13200.00

Sl.No	Item No		Description of Item (with brief specification and reference to Book of Specification)	Quantity	Unit	Rate	Amount in Rs.	Kunal Structure Pvt. Ltd. Rajkot	
								Rate	Amount
101		c)	c) Supplying and fixing R C C M20 delineator (long) : made out R C C M20, 140 cms long, 10x10cms square / 10 cms diameter, including painting fitted with retro reflective sheeting on circular in 15 cms width at top and fixing in foundation in C C 1:3:6 complete as per the drawing, as per Technical Specification and as directed by the Engineer	995.00	Nos	425.00	422875.00	2000.00	1990000.00
102	8.09		Providing and fixing Raised Pavement Marker (Cat Eye, Road Stud) complying ASTM D4280 type "H" specifications, made of high strength engineering Plastic Body having at least 13 tons load bearing capacity of pneumatic tyre, size or marker 9cmsx10cmsx1.6cm having shape so that no water penetration or dust accumulation takes place on reflective surface, fitted with electronically welded tough polycarbonate micro prismatic reflector having 16 sq-cms surface area of each side having long distance visibility at night and in wet weather condition. The body of marker having finger grip for easy and accurate placement fitted with two number polymer shanks to anchor the marker with the road for avoiding dislocation of the marker where the road is bleeding or made with softer grade of bitumen and application with adhesive on asphalt road,	7292.00	Nos	603.00	4397076.00	300.00	2187600.00
103	8.27		Providing and constructing raised Rumble strip complete as per drawing and Technical Specification and as directed by the Engineer.	1945.00	Rmt	58.00	112810.00	1000.00	1945000.00
104	8.28		Providing fitting and fixing mild steel railing 1.20m high having vertical post of channel 75mm x 50mm x 5mm spacing at 1.50m center to center and horizontal angle 50mmx50mmx5mm at bottom and at top with a vertical square bar of 10mm at 10cms center to center complete including bracing if required, painting with two coats of epoxy paint and fixing channel in CC M20 foundation concrete of 30cms x 30cms x 45cms as per drawing, technical specification and as directed by the Engineer.	100.00	Rmt	2999.00	299900.00	1900.00	190000.00
105	8.29		Construction of raised pedestrain crossing with foundation CC M15 and raised cum slope with CC M25 as per drawing and as directed by the Engineer.	9.00	Rmt	4195.00	37755.00	1200.00	10800.00

Sl.No	Item No	Description of Item (with brief specification and reference to Book of Specification)	Quantity	Unit	Rate	Amount in Rs.	Kunal Structure Pvt. Ltd. Rajkot	
							Rate	Amount
106	8.30	Providing and fixing aluminium backed flexible prismatic sheeting, consisting of yellow / black colored flexible prismatic sheet with non metallic prismatic lens as retro reflective elements and confirming to ASTM D4946 Type VI specification for reboundable retro reflective sheeting. The prismatic sheet shall be laminated at the back with 50micron aluminium Foil sensitive adhesive and liner with screen printed arrow / slant pattern in yellow/black color. The AFP shall be applied with adhesive, edge of sheeting shall be sealed all around with epoxy based structural adhesive and shall be extremely resistant to pill-off.	59.00	Sqm	5350.00	315650.00	2500.00	147500.00
107	8.31	Supplying and erecting MNES certified SOLAR STREET LIGHT in village area, fitting made from MS body powder coated / painted with corrosion resistant with gasket & transparent cover with following CFL non retro lamp with choke, holder & accessories. Fitting shall be mounted on 75/80 mm B class G.I. pipe pole up to 5.5 meter long complete, erected with C.C. foundation duly painted with two coats of red oxide and corrosive resistant paint complete with tubular battery, inverter, charge controller with photo sensor switch & necessary wiring complete erected, connected & commissioned in approved manner. (c) 2x11 W CFL (Double Luminaire with One CFL each), PV module : 120W Battery Capacity : 12V, 100AH	54.00	Nos	34000.00	1836000.00	18000.00	972000.00
	8.32	White washing / color washing with lime, geru on tree stem surfaces (1.2 mt height, 0.3 mt lime and 0.9 mt geru) two coats or more coat to give and even shading including thoroughly brooming the surface to remove all dirt, dust, mortar drops and other foreign matters as per the direction of Engineer.						
108	a)	a) For tree up to avg. girth 450 mm.	50.00	Nos	6.00	300.00	100.00	5000.00
109	b)	b) For tree above avg. girth 450 mm.	35.00	Nos	11.00	385.00	100.00	3500.00
Bill No. 9 SAFETY IN ROAD CONSTRUCTION ZONE								

Sl.No	Item No	Description of Item (with brief specification and reference to Book of Specification	Quantity	Unit	Rate	Amount in Rs.	Kunal Structure Pvt. Ltd. Rajkot	
							Rate	Amount
	9.01	Supplying and fixing sign boards including the cost of posts, fixtures, foundation, fitting and fixing. Sheeting will be made of encapsulated lens type of Retro-reflective type and messages/ borders will be screen printed complete as per Technical Specification clause 801 and as directed by Engineer.						
110	a)	a) Octagonal 900x 900 mm	20.00	Nos	9852.00	197040.00	5000.00	100000.00
111	b)	b) Circular 600 dia	20.00	Nos	5643.00	112860.00	3500.00	70000.00
112	c)	c) Informatory signs as per drawing	40.00	Sqm	14201.00	568040.00	4500.00	180000.00
113	d)	d) Cautionary warning signs (Triangular 900 sides) Type III	45.00	Nos	5932.00	266940.00	4000.00	180000.00
114	9.02	Providing of red fluorescent with white reflective sleeve traffic cone made of low density polyethylene(LDPE) material with a square base of 390x390x35mm and a height of 770mm, 4Kg in weight, placed at 1.5m interval, all as per BS 873 including cost of all materials, labour, loading, unloading, lead, lift, transporting etc complete Technical Specification section & IRC SP 55-2001.	75.00	Nos	244.00	18300.00	500.00	37500.00
115	9.03	Installation of a steel portable barricade with horizontal rail 300mm wide,2.5m in length fitted on a frame made with 45X45X5 mm angle iron section, 1.5m in height, horizontal rail painted(2coat) with yellow and white strips,150mm in width at angle of 45degree, A frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001 including cost of all materials, labour, loading, unloading, lead, lift, transporting etc complete as per drawings or as directed by the Engineer.	40.00	Nos	2621.00	104840.00	3000.00	120000.00
116	9.04	Providing Barricading/Caution Tapes of High quality PVC tape tube type to Enclose construction area as per Technical Specification or as directed by the Engineer.	5000.00	Rmt	1.00	5000.00	10.00	50000.00
Bill No. 10								
Implementation of Environmental Management Action Plan to be executed under Civil Works Contract								
117	10.01	Construction of Recharge pits within the selected water bodies along the project road as per approved design and drawing as developed by Central Ground Water Board.	8.00	Nos	18000.00	144000.00	12000.00	96000.00

Sl.No	Item No	Description of Item (with brief specification and reference to Book of Specification	Quantity	Unit	Rate	Amount in Rs.	Kunal Structure Pvt. Ltd. Rajkot	
							Rate	Amount
118	10.02	Construction of silt traps at the discharge points of channels into to fresh water bodies across the project road as per the Standard Details provided.	500.00	Rmt	900.00	450000.00	500.00	250000.00
119	10.03	Periodic air quality monitoring during construction stage at construction camp sites, bitumen hot mix plants, crusher plants (if specifically established for Project), at major settlement areas along project road. The parameters to be monitored are SPM, RPM, SO ₂ , NO _x and CO, Lead. Each monitoring schedule shall be over a duration of 24 hours (in 8 hour shifts), once in a quarter and for 2 Years).	15.00	Nos	7500.00	112500.00	15000.00	225000.00
120	10.04	Noise quality monitoring at specified silent receptors along Project Road, at construction camp sites, bitumen hot mix plants, crusher plants(if specifically established for Project), and at major settlement areas along project road. – Each monitoring schedule shall be over a duration of 12hours (6Am to 6PM), once in a quarter and for 2 Years). The monitoring shall be carried out in accordance with CPCB norms at locations given .	15.00	Nos	3000.00	45000.00	15000.00	225000.00
	10.05	HIV prevention / alleviation programme comprising of conduction Information, Education and communication (IEC) campaign at least every other month, providing condoms, providing STI and HIV / AIDS screening, diagnosis and referral to dedicated national STI and HIV / AIDS programme and programme management support throughout the contract perieoeed (including the defect notification period).						
121	a)	a) IEC materials - printing, publishing	12.00	set	3000.00	36000.00	50000.00	600000.00
122	b)	b) Healthcare clinic	4.00	Nos	30000.00	120000.00	200000.00	800000.00
123	c)	c) Condom vending machines	2.00	Nos	15000.00	30000.00	50000.00	100000.00
124	d)	d) Condom supplies (Refilling condom vending machine)	24.00	Per Refilling	3000.00	72000.00	2000.00	48000.00
125	e)	e) Signages and hoardings	10.00	set	15000.00	150000.00	15000.00	150000.00
Bill No. 11 MAINTENANCE								

Sl.No	Item No		Description of Item (with brief specification and reference to Book of Specification)	Quantity	Unit	Rate	Amount in Rs.	Kunal Structure Pvt. Ltd. Rajkot	
								Rate	Amount
126	11.01		Maintenance of project road for first year after completion of Defect Liability Period as directed by the Engineer.	46.58	Per km	40000.00	3726400.00	1000.00	46580.00
127	11.02		Maintenance of project road for second year, years after completion of Defect Liability Period as directed by the Engineer.	46.58	Per km	50000.00	4658000.00	1000.00	46580.00
Total Maintenance carried to Grand Summary									
Total Cost of Corridor :							655961184.42		505542635.00
Offered REBATE %							0.00%		3.99
REBATE AMOUNT							0.00		20171151.14
NET AMOUNT							655961184.42		485371483.86