Project Name: Manglore Smart City Grand Summary for Priority Road DPR 5

Sr. No.	Description	Cost In INR
1	Road and Other Works	37,34,90,426
2	Street Lighting	64,63,562
3	Landscape Work	22,38,546
	Construction Cost Sub Total	38,21,92,534
	GST @ 12% -Civil Constrction Cost (Refer 1.0 Abstract)	4,40,83,165
	Provision for Third Party Damages and Maintenance at 1 st Year(DLP-	28,83,930
	GST @12% on DLP Cost Items (Refer 5.1 Abstract)	2,65,467
	Maintenance Cost of 2nd,3rd and 4th Year	1,21,84,243
	GST @12% on Maintenanace Cost	11,81,659
	Escalation and Tender Premium @10%	382,19,253
-	Add 3% Contengency	114,65,776
	Miscellaneous and Rounding off	23,972
	Grand Total	49,25,00,000

EXECUTIVE ENGINEER MSCL MANGALURU

GENERAL MANAGER TECHNICAL MSCL MANGALURU

MANAGING DIRECTOR MSCL Mangaluru

Name of the Work :- Mangalore Smart City 1.0 BOQ of Road and Other Work for Priority Road DPR 5

	1.0 BOQ OF ROAD AND OTHER WO		l		l	1
Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
1.00	Taking out existing CC interlocking paver blocks from footpath/central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA attached)	Sqm	8598.28	74.98	6,44,699	
2.00	KSRRB M200. Dismantling of cement concrete pavement by mechanical means using pueumatic tools,breaking to pieces not exceeding 0.02 cum in volume and stock pilling at designated locations and disposal of dismantled material stacking serviceble and unserviceable materials separately complete as per specifications.MORTH specification No.202.(Including transporting charges,loading and unloading for lead 5km-Extra) (SI No: 18.47)	Cum	276.87	1003.20	2,77,756	
3.00	KSRRB M200- Dismantaling of kerb Stone and Channel KSRRB M200-26. Dismantling Kerb stone by Manual means and disposal of dismantled materials with all lifts and complete as per specifications.MORTH Specification No.202. (S.I.No.18.49)	Rmt	4469.00	13.20	58,991	
4.00	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202 (KPWD SOR 18-19,S.I.18.20)	Cum	5527.36	429.00	23,71,237	
5.00	KSRRB M200-17.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. v)Steel work in all types of Sections upto a Height of 5 m above plinth level excluding Cutting of Rivet—B. Excluding dismembering. (KPWD SOR 18-19,18.33)	МТ	9.40	2082.30	19,574	
6.00	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Section 5.(KSRRB SI No.19.56)	Sqm	8614.00	42.90	3,69,541	
7.00	KSRRB 300-46. Scarifying stone metal crust 50mm to 100mm thick by road roller with scarifier along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM of machinaries complete as per specifications. MORTH / Section 5. (KSRRB SI No.19.52)	Sqm	19073.81	42.90	8,18,267	
8.00	KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonary, cement concrete, woodwork, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar (SI No: 18.23)	Cum	2.30	386.10	888	
9.00	Removing B.S slab of drain and stackin as directed by engineer in charge.(PWD 18-19,SI No : 5.32)	Sqm	150.00	107.80	16,170	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
10.00	KSRRB M800-Permanent type barricade in construction zone KSRRB M800-44.1. Construction of a permanent type barricade made of steel components, 1.5 m high from road level, fitted with 3 horizontal rails 200 mm wide and 4 m long on 50 x 50 x 5 mm angle iron vertical support, painted with yellow and white strips, 150 mm in width at an angle of 45°, complete as per IRC:SP:55-2014 complete as per specifications . A. With steel components (SI No : 24.45)	Nos.	250.00	4,211.90	10,52,975	
11.00	KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 5.00Km and complete as per specifications. MORTH specification No.301 (SI No: 19.14)	Cum	58388.11	56.36	32,90,754	
12.00	KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(KPWD 18-19,SI No.2.11)	Cum	38867.33	132.00	51,30,488	
13.00	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Section 3.(KPWD 18-19,SI No.19.64)	Sqm	37458.12	6.60	2,47,224	
14.00	KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (SI.No. 4.6 of KPWD 18-19)	Cum	2147.14	6,490.00	1,39,34,958	
15.00	KSRRB 400 Granular Sub-Base with Coarse Graded Material (table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19)	Cum	2429.35	2,382.60	57,88,175	
16.00	KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material (RA Attached)	Cum	3654.42	2,640.00	96,47,669	
17.00	KSRB 4.2.1 : Providing and laying in position reiforcement cement concrete of design Mix M25 with OPC cement @340Kgs,with 20mm and down size graded granite metal coarse aggregate @ 0.47 cum with super plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 at machine mixed,concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls,return walls,walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of machinery,curing,complete but excluding cost of reinforcement as per specifications. (SI No : 4.10 of KPWD 18-19)	Cum	8501.41	6,817.80	5,79,60,941	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
18.00	KSRB 4.6.1 Providing and removing centering, shuttering, strutting, propping etc.,and removal of formwork for foundations, footings, bases of columns for mass concrete including cost of all materials,labour complete as per specifications. Specification No. KSB 4.6.2 (SI No: 4.28 of KPWD 18-19)	Sqm	52432.82	289.30	1,51,68,814	
19.00	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work including straighting, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to thr adjoing members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinary complete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 (SI No: 4.46.2 of KPWD 18-19)	МТ	705.47	77,860.20	5,49,28,035	
20.00	KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of sub-grade with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory roller compaction by vibratory roller to 97% of proctors density) MORTH Specification No. 305IKPWD 18-19,19.62,17.1 and 17.4)	Cum	8861.59	620.62	54,99,680	
21.00	KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications.Morth specification No.601 (SI No: 22.1.1 of KPWD 18-19)	Cum	1607.27	4,452.80	71,56,852	
22.00	KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site, Manually laid and compacting with palte compactor ,finishing and curing complete as per MORTH specifications Clause 601. (RA attached)	Cum	548.19	4,048.00	22,19,065	
23.00	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 em thick layers and well compacted including vibrating curing etc., for all super structure works with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) Note: The RMC should be obtained only from the plants certified by Quality Council of India as per CE, C&B letter, AE2, 2015-16, Dt. 12-09-2015 Ready mixed Cement concrete M-25 (KPWD,4.49.2)	Cum	2126.25	6,046.70	1,28,56,814	

On No	On a strantan	11	Ota	D-1-	A	Domonto
Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
24.00	KSSRRB M600-2.Construction of unreinforced,dowel jointed, plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per MORTH specifications Clause 602.with M40 @420Kg per cum Cement,C.A,0.67 cum F.A.044Cum (SI No: 22.2.2 of KPWD 18-19)	Cum	4302.34	6,341.50	2,72,83,289	
25.00	Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealant manufacturer recommends and pouring the sealant all complete including material, manpower and as shown on drawing and as per MORTH specifications clause 602. (Non SOR Item)		353.67	115.00	40,672	
26.00	KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints longitudinal joints and expansion joints in concrete pavement using epoxy mortar concrete complete as per specifications.Morth specification No.3005.1 (SI No: 35.8 of KPWD 18-19)		17.68	364.10	6,439	
27.00	Providing and laying at or near ground level factory made Median kerb stone of M-20 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per drawing. (Precast C.C. kerb stone shall be approved by Engineer-in-charge). (RA Attached)		5.10	19,479.70	99,346	
28.00	Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of CC M20 and Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (SI No: 5.3 of KPWD 18-19)	Cum	471.24	17,029.77	80,25,049	
29.00	Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,made out of CC M20 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (SI No: 5.3 of KPWD 18-19)		216.81	17,029.77	36,92,145	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
30.00	Reusing existing kerb stone obtained from dismantaling of existing footpath or by other dismantaling work and laying at or near ground level in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including transportation to site from stack yard, making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	Rmt	2,234.50	58.23	1,30,115	
31.00	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per MORTH specifications section 8. (SI No: 24.1 of KPWD 18-19)	Sqm	2,191.02	88.00	1,92,810	
32.00	P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting. (Rate analysis attached)	Nos.	782.00	7,911.54	61,86,824	
33.00	P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached)	Nos.	869.00	5,276.57	45,85,335	
34.00	P/F FRP Water gully cover with frame (25T) 600mmx500 mm at level footpath. (Rate analysis attached)	Nos.	365.00	7,912.28	28,87,982	
35.00	KSRRB M300- Wrought iron and mild steel welded work KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, gratings with grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications.(KPWD,18-19,SI.No.19.97)	Quintal	55.50	7,905.70	4,38,766	
36.00	KSRB 12-8.2 : Constructing brick masonry inspection chamber 500x700mm, and 450mm depth, (clear inside dimension) for pipeline with one or two inlets, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal , foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS (S.I.No.11.52 of PWD SR 2018-19)		13.00	9,125.60	1,18,633	
37.00	Providing gully pipe lowering, laying of PVC 100 mm dia pipes to the required alignments including specials and grade as indicated in drawings/design and hydraulically testing of the pipe line. The rate shall include all jointing materials, testing apparatus and water for testing etc as directed by the Engineer in charge (page No.41, Item No.7, KUWSDB SOR 2016-17)	Rmt	992.40	301.70	2,99,407	
38.00	KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100mm dia , of self cleaning design with screwed down or hinged grating with or without vent arm including cutting and making good the walls and floors, cost of materials, labour, testing, complete as per specifications Specification No. KBS 11.1.10. (PWD SR 2018-19, SI.No.12.89)		827.00	913.00	7,55,051	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
39.00	KSRRB M2200- Providing Weep Holes KSRRB M2200-8. Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V:20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per specifications MORTH Specification No.2706 & 2200 (PWD SR 2018-19, SI.No.28.10)		8,690.00	161.70	14,05,173	
40.00	KSRRB M800-29.3. Cable Duct Across the road KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings complete as per specifications. Case-III :Triple row for three utility services. (PWD SR 2018-19,SI.No.24.36)	Rmt	1,108.00	5,524.20	61,20,814	
41.00	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5,Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7.The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years. (Market Rate)	Rmt	17,628.00	1,556.88	2,74,44,681	
42.00	Providing and laying Dia 160mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5,Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7.The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years.(Market Rate)	Rmt	22,852.00	1,068.90	2,44,26,503	
43.00	Providing and Fixing Spacers for Power Ducts of size 200 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)		6,821.00	1,003.00	68,41,463	
44.00	Providing and Fixing Spacers for Power Ducts of size 160 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)		5,991.00	1,947.00	1,16,64,477	
45.00	Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lubricant inner layer for ICT fibre cables comforming to ASTMF 2160 and /or equivalent indian standard and conveying to work site including loading and unloading at both destination and rolling,lowering into trenches,laying true to line and jointing of pipe etc.Complete. (Market Rate)	Rmt	7,863.00	601.30	47,28,022	
46.00	Supplying and Application charges required for stamping the freshly laid new concrete (Concrete rate is not included in this item) including finishing and colouring the top surface accurately to the required level, shape and size using approved colour shade and staping it using approved stamp pattern and antiquitting it on top with approved colour. Sealing entire area with concrete sealer.	Sam	21,262.53	624.00	1,32,67,819	
47.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles.	Rmt	6,072.37	59.00	3,58,270	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
48.00	Providing and laying heavy duty cobble stones 75mm thick , using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 30mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. (KPWD SR 2018-19,SI No: 14.7)	Sqm	5,771.99	1,225.40	70,72,997	
49.00	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No. 507 -using 100/120 TPH capacity H.M.P. with sensor paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (KPWD 18-19,S.I.No.21.17.1)	Cum	108.79	8,622.90	9,38,064	
50.00	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-40 Bitumen(KPWD 18-19,S.I.No.21.22.6)	Cum	29.01	9,637.10	2,79,572	
51.00	KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, Supply and Installation of retro-reflective cautionary, mandatory & Informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC:67:2012 specifications & fixed over 4mm thick aluminium composite panel sheet having minimum 0.30 mm thick aluminium skin on both sides & fixed over a support frame of 25X25X3mm MS angle and mounted on 75 mm dia OR 75X75X6mm mild steel angle to Total height 2.70 m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60mm below ground level. the sign post should be painted with be coat of red oxide paint and two coats of synthetic enamel paint of black and white colour with bands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45cmX45cmX60cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the works as directed be engineer in-charge.	Nos.	154.00	3,862.10	5,94,763	
	10 years warranty for Retro Reflective Sheeting from the original sheeting manufactures as per clause 6.9 in IRC: 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. 900MM Equilateral Triangle-TYPE XI (KPWD 18-19,SI No: 24.2.1)					

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
52.00	KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, Supply and Installation of retro-reflective cautionary, mandatory & Informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC:67:2012 specifications & fixed over 4mm thick aluminium composite panel sheet having minimum 0.30 mm thick aluminium skin on both sides & fixed over a support frame of 25X25X3mm MS angle and mounted on 75 mm dia OR 75X75X6mm mild steel angle to Total height 2.70 m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60mm below ground level. the sign post should be painted with be coat of red oxide paint and two coats of synthetic enamel paint of black and white colour with bands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45cmX45cmX60cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the works as directed be engineer in-charge.	Nos.	26.00	5,453.80	1,41,799	
	10 years warranty for Retro Reflective Sheeting from the original sheeting manufactures as per clause 6.9 in IRC: 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. 900MM Octagon Stop Board-TYPE XI (KPWD 18-19,SI No: 24.2.6)					
53.00	KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, Supply and Installation of retro-reflective cautionary, mandatory & Informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC:67:2012 specifications & fixed over 4mm thick aluminium composite panel sheet having minimum 0.30 mm thick aluminium skin on both sides & fixed over a support frame of 25X25X3mm MS angle and mounted on 75 mm dia OR 75X75X6mm mild steel angle to Total height 2.70 m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60mm below ground level. the sign post should be painted with be coat of red oxide paint and two coats of synthetic enamel paint of black and white colour with bands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45cmX45cmX60cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the works as directed be engineer in-charge.	Nos.	75.00	3,429.80	257,235	
	10 years warranty for Retro Reflective Sheeting from the original sheeting manufactures as per clause 6.9 in IRC: 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. 600MM Circle-TYPE XI (KPWD 18-19,SI No : 24.2.3)					

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
54.00	KSRRB M800-3. Direction and Place Identification Signs upto 0.9 sqm Size Board:-Manufacturing, supply and installation of retro-reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45 cm x45 cm x 60 cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by engineer in charge. 10 years warranty for retro reflective sheeting from the original sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered	Sqm	14.40	7619.70	1,09,724	
55.00	Direction and Place Identification Signs with size more than 0.9 sqm Size Board: Providing and erecting direction and place identification retroreflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing.	Sqm	44.00	7926.60	3,48,770	
56.00	KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, supply and installation of retro- reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to 600x800 MM type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with (KPWD18-19,24.2.4)	Nos.	22.00	4453.90	97,986	
	M20 grade cement concrete of 45 cm x45 cm x 60 cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by engineer in charge. 10 years warranty for retro reflective sheeting from the original sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier.					
57.00	KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications (KPWD 18-19,SI No : 24.41)	Nos.	1385.00	317.90	4,40,292	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
58.00	Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streak and holes complete as per specifications. MORTH specification No.803 (KPWD 18-19, SI No: 24.15)	Sqm	4686.62	471.90	22,11,616	
59.00	Providing and Fixing of Bus shelter(on prepared foundation) made of SS 304 frame work with brush steel finish, Galvanised Aluminium powder coated roofing and electronic circuit to control its lighting. The seating shall be made of SS 304 tubular sections for seat and back rest.each unit size of 4500mm x 600mm with a minimum backrest support of 450mm. Bus shelter shall have the Side Display board to have 1100X400mm Electronic display. The electronic display board to be of LED Scrolling type with Oval, 4.3 x 5.1mm dia. Diffused. LED's having Amber colour. Dual bin system should be adopted one for recycle waste & other for dry waste. Each bin shall be with minimum capacity of 70Ltrs. Interactive Information Panel-display equipment with information area of 1400 x 1400 and touch screen LED display panel of area not less than 600-900mm with integrated 8mm toughened glass. Advertisement Area 2 nos of size 4500mm x 1650mm and 2100mm x 2000mm shall be integrated within the design of the Bus Shelter. This shall be backlit type with SS box framing sides and back complete. Provision for installing outdoor WiFi Router. The Foundation slab shall be made in min M25 concrete. The cast iron nuts, bolts shall be rust proof hot deep galvanized powder coated etc. The materials used shall be Nonflammable	Nos.	3.00	1500000.00	45,00,000	
60.00	Providing & installing of E- toilet with Super structure of the electronic toilet to have asthetic ambience with inner room size 1.2 x 0.8 x 2.4 (LXWXH)meters and Size of electronic toilet overall size in meters 2.30x1.25x2.80 (LXWXH) Total area 35 Sft. with Built-acess controlled main door and side walls made of SS Grade 304,Toilet floor and closet are to be stainless steel of grade 304.E-Toilet shall have Built-in water tank with minimum 225 Lit capacity and Acess controll using coin validator for entering the unit based on automatic payment collection mechanism exit from the unit should be manual.Automatic lights inside the unit with gloves on opening the door.E-Toilet shall be Automatic flushing system which includes Automatic Pre flush cleaning before use,Automatic closet washing mechanism after use and Automatic platform cleaning mechanism programmed after specific numbers.In addition to these flush switch is to be provided for manual operation.Standard features should include heath faucet,exhaust fan and cloth hanger.	Nos	3.00	5,75,000	17,25,000	
	The E-Toilet shall have Alert to users-different indication on 'ready to use', busy are to be provided in the unit also with Voice guidence in the unit for users. Web enabled support-GPRS based Real time data to be provided from the unit through web for knowing the health status like number of users per day and coins collected. E-toilet shall have Modular and portable design enabling easy assembling and installation at site. Call ceneter and web portal facilities for registering complience and tracking usage, coin collection etc. Status display in LED, Printed instruction stickers are to be provided. For Advertisment purpose space for advertisement dispaly to be povided on the exterior of the unit for income generation and sustainability. Backup power facility like UPS is to be provided to supplement upto 30 Min Base of the unit to be placed on a suitable concrete structure with a ashthetic finish. (Non SOR Item)					
61.00	KSRB 6-2.3: Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 5.0Newton per sqmm (table moulded) with cement mortar 1:6 for basement and superstructu/re including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2. (KPWD 18-19,SI.No.6.7)	Cum	45.21	8576.70	3,87,742	

Page 11

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
62.00	KSRB15-3.8: Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(KPWD 18-19,SI No.15.16)	Sqm	136.08	288.20	39,218	
63.00	Providing and fixing 450mm wide X 600mmX 20mm thk.RIVERWASHED BLACK GRANITE CLADDING on surface of seating as directed by architect (Non SOR Item)	Sqm	75.60	3527.00	2,66,641	
64.00	Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	73.00	4,500	3,28,500	
65.00	Providing and fixing of railing as detail design in MS HOLLOW SECTION and bars (shop drawing to be approved), with vertical support of 0.9m @2.2mc/c, all complete to the satisfaction of the Landscape architect.(Non SOR Item)	MT	2.08	100,000	2,08,000	
66.00	Providing and Fixing SS 304 Outdoor Dustbin (Pivoted Type and Mounted on SS Poles) of 55 liters capacity all complete to the satisfaction of the Engineer in charge. (NON SOR Item)	Nos.	65.00	7,500	4,87,500	
67.00	KSRRB M300-14. Half brick circular tree guard, in 2nd class brick, internal diametre 1.25 metres, and height 1.2 metres, above ground and 0.20 metre below ground, bottom two courses laid dry, and top three courses in cement mortar 1:6 (1 cement 6 sand) and the intermediate courses being in dry honey comb masonry, as per design complete, complete as per specifications.KSRRB M300-Edging with 2nd class bricks, laid dry lengthwise(KPWD 18-19,19.93)	Nos.	5.00	2,466	12,331	
68.00	Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km Item No 17.4 KSRRB M100-4.1-Earth	Cum	19,520.78	90.86	17,73,658	
69.00	Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5km Item No 17.4 KSRRB M100-4.1-Debris	Cum	8,875.86	91.30	8,10,366	
			Total		37,34,90,426	

SOR+ RA Items Cost GST @12% Market Rate GST @12% 26,49,68,330 31796200 10,23,91,376 12286965

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 1.1 Measurement Sheet of Road and Other Work for DPR 5

	1.1 Measurement Sheet of Road						
Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Road and Junction Payme	ent and Ot	her Works	 B			
1	Taking out existing CC interlocking paver blocks from footpath/central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA attached)						
	7a-Milagres Cross Road	Cours	4	4.5	4.44		40.00
	Ch.160.00(RHS) 7c-Attavar Nandigudda Road	Sqm	1	4.5	4.14		18.63
	Ch.150.0 to Ch.350.0(RHS)	Sqm	1	200.0	2.37		474.00
	Ch.360.0 to Ch.430.0(RHS)	Sqm	1	70.0	5.09		356.30
	10-Kudumbi Garden Road Ch.10.00 to Ch.20.00(LHS)	Sqm	1	10.0	1.85		18.50
	19b-Balmatta Road	0 9.11		10.0	1.00		10.00
	Ch.0.00 to Ch.90.00	Sqm	1	90.0	4.42		397.80
	19a- Arya Samaj Road Ch.0.00 to Ch.590.00	Sqm	1	590.0	10.00		5900.00
	Consider 20% Extra Qty.	Oqiii	<u>'</u>	390.0	10.00		1433.05
		Sqm		Total Qty.			8598.28
	Consider 60mm Paver Block	Cum					515.90
2	KSRRB M200.Dismantling of cement concrete pavement by mechanical means using pueumatic tools,breaking to pieces not exceeding 0.02 cum in volume and stock pilling at designated locations and disposal of dismantled material stacking serviceble and unserviceable materials separately complete as per specifications.MORTH specification No.202.(Including transporting charges,loading and unloading for lead 5km-Extra) (SI No: 18.47)						
	RCC Pipe Crossing-						
1	7a-Milagres Cross Road	Cum	4		1.182	0.00	
3	7c-Nandigudda Road 8-New Balmatta Road	Cum Cum	11 12	16 12	1.182 1.182	0.30	
4	10-Kudumbi Garden (DBS) Road	Cum	8		1.182	0.00	
5	19a-Arya Samaj Road	Cum	6	10	1.182	0.00	0.00
<u>6</u> 7	19bBalmatta Road 15a-Azizuddin Road	Cum Cum	8		1.182 1.182	0.30 0.30	
8	15b-Jumma Masjid-Old Port Road	Cum	16		1.182	0.30	
	20-Bendre Ferry Road	Cum	18.4	12		0.30	78.30
		Cum		Total Qty.	1		276.87
3	KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M200-26. Dismantling Kerb stone by Manual means and disposal of dismantled materials with all lifts and complete as per specifications.MORTH Specification No.202. (S.I.No.18.49)						
1	Footpath 7a-Milagres Cross Road	Rm	0	183			0.00
	7c-Nandigudda Road	Rm	2	1021			2042.00
3	8-New Balmatta Road	Rm	1	577			577.00
5	10-Kudumbi Garden (DBS) Road 19a-Arya Samaj Road	Rm Rm	0 2				0.00 1190.00
6	19bBalmatta Road	Rm	2	330			660.00
7	15a-Azizuddin Road	Rm	0	717			0.00
<u>8</u> 9	15b-Jumma Masjid-Old Port Road 20-Bendre Ferry Road	Rm Rm	0				0.00
9	EV-Denute Letty Maa	Rm	0	Total Qty.			4469.00
4	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202 (KPWD SOR 18-19,S.I.18.20)						
	SWD						
						_	

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
1	7c-Nandigudda Road						
	SWD-Base	Cum	1	1021.00	1.35	0.15	206.75
	SWD-Wall SWD-Slab	Cum Cum	2	1021.00 1021.00	0.20 1.15	1.10 0.15	449.24 176.12
2	8-New Balmatta Road	Cum	I	1021.00	1.15	0.15	170.12
	SWD-Base	Cum	1	577.00	1.35	0.15	116.84
	SWD-Wall	Cum	2	577.00		1.10	253.88
	SWD-Slab	Cum	1	577.00	1.15	0.15	99.53
3	10						
	SWD-Base	Cum	1	375.00	1.10	0.15	61.88
	SWD-Wall	Cum Cum	2	375.00	0.20 0.90	0.90	135.00
4	SWD-Slab 19a	Cum	1	375.00	0.90	0.15	50.63
-	SWD-Base	Cum	2	330.00	1.10	0.15	108.90
	SWD-Wall	Cum	4	330.00	0.20	1.00	264.00
	SWD-Slab	Cum	1	330.00	0.90	0.15	44.55
5	19b						
	SWD-Base	Cum	1	595.00	1.10	0.15	98.18
	SWD-Wall	Cum	2	595.00	0.20	1.00	238.00
	SWD-Slab	Cum	1	595.00	0.90	0.15	80.33
6	15a SWD-Base	Cum	2	717.00	1.10	0.15	236.61
	SWD-base SWD-Wall	Cum	4	717.00	0.20	1.00	573.60
	SWD-Slab	Cum	2	717.00	0.90	0.15	193.59
7	15b	···	_		3.00	50	
	SWD-Base	Cum	1	966.00	1.10	0.15	159.39
	SWD-Wall	Cum	2	966.00	0.20	1.00	386.40
	SWD-Slab	Cum	1	966.00	0.90	0.15	130.41
8	15b						
	SWD-Base	Cum	1	1103.00	1.10	0.15	182.00
	SWD-Wall SWD-Slab	Cum Cum	2	1103.00 1103.00	0.20 0.90	1.00 0.15	441.20 148.91
	Cross Drain	Cuili	ı	1103.00	0.90	0.13	140.91
	Box Culvert						
	7a						
	Box Culvert-Slab	Cum	4	11.2	1.00	0.20	8.96
	Box Culvert-Wall	Cum	4	11.2	1.00	0.20	8.96
	7c		10			2.22	
	Box Culvert-Slab	Cum	16	16.7	1.00	0.20 0.20	53.44
	Box Culvert-Wall 8	Cum	16	16.7	1.00	0.20	53.44
	Box Culvert-Slab	Cum	8	12.5	1.50	0.20	30.00
	Box Culvert-Wall	Cum	8	12.5	1.50	0.20	30.00
	10			_			
	Box Culvert-Slab	Cum	8	12.5	1.50	0.20	30.00
	Box Culvert-Wall	Cum	8	12.5	1.50	0.20	30.00
	19a						
	Box Culvert-Slab	Cum	8	10.6		0.20	25.44
	Box Culvert-Wall 19b	Cum	8	10.6	1.50	0.20	25.44
	Box Culvert-Slab	Cum	8	26.1	1.50	0.20	62.64
	Box Culvert-Wall	Cum	8	26.1	1.50	0.20	62.64
	15a		J			3.23	- · - ·
	Box Culvert-Slab	Cum	12	11.3		0.20	40.68
	Box Culvert-Wall	Cum	12	11.3	1.50	0.20	40.68
	15b						0
-	Box Culvert-Slab	Cum	16	6.75		0.20	32.40
	Box Culvert-Wall	Cum	16	6.75	1.50	0.20	32.40
	Box Culvert-Slab	Cum	16	12.95	1.50	0.20	62.16
	Box Culvert-Wall	Cum	16	12.95	1.50	0.20	62.16
		Cum			Total Qty.	5.20	5527.36
5	KSRRB M200-17.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. v)Steel work in all types of Sections upto a Height of 5 m above plinth level excluding Cutting of Rivet– B. Excluding dismembering.						
	(KPWD SOR 18-19,18.33) Footpath Railing		Rm	Kg/Rm	Kg		
				- g			

No. M076s 4.40	Sr. No.	Description	Unit	No's	L	B 5000	Н	Qty.
SystRep	-			100 Nos	50 Mt/Nos	5000		5.00
KSRRB 300-50 Scarlfying bituminous course 50mm to 75mm inches along with premix carpet / surface disessing by road roller foliates including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Section 5,KSRRB SI No.19.56) Millagree Cross Road Sqm 1 155 6.80 1054.00 Ch. 500 to Ch. 100.00 Sqm 1 556 6.80 1054.00 Ch. 500 to Ch. 100.00 Sqm 1 556 6.80 1054.00 Ch. 500 to Ch. 100.00 Sqm 1 550 4.50 1170.00 Ch. 500 to Ch. 100.00 Sqm 1 560 4.50 1170.00 Ch. 500 to Ch. 200.00 Sqm 1 560 4.50 1170.00 Ch. 500 to Ch. 200.00 Sqm 1 260 4.50 1170.00 Ch. 500 to Ch. 200.00 Sqm 1 260 4.50 1170.00 Ch. 500 to Ch. 200.00 Sqm 1 260 4.50 1170.00 KSRRB 300-46. Scarlfying stone metal crust 50mm to 100mm truck by road roller with scarlfor along with 20mm premix capper / surface disessing and stacking of all serviceable materials as per appendications. MORTH / Section 5, (KSRRB SI No.19.52) Millagree Cross Road Ch. 500 to Ch. 100.00 Sqm 2 155 6.80 2108.00 Arys Sama Road Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00 Sqm 2 260 4.50 2240.00 Ch. 500 to Ch. 100.00		Bus Shelter						4.40
Thick along with premix carpet / surface dressing by road roller attached with scarffer without disturbing the besand stacking the debris including cost of all labour charges, HOM of machinense completes as per specifications. MORTH / Section 5,(KSRRB S) Misses			MT	-			Total	
Thick along with premix carpet / surface dressing by road roller attached with scarffer without disturbing the besand stacking the debris including cost of all labour charges, HOM of machinense completes as per specifications. MORTH / Section 5,(KSRRB S) Misses		KCDDD 200 FO Cook in a bit was a second of the second of t						
Complete as per specifications. MORTH / Section 5 (KSRRB SI No.19.56) Complete as per specifications. MORTH / Section 5 (KSRRB SI No.19.56) Complete as per specifications. MORTH / Section 5 (KSRRB SI No.19.56) Complete as per specifications. MORTH / Section 5 (KSRRB SI No.19.56) Complete as per specifications. MORTH / Section 5 (KSRRB SI No.19.56) Complete SI No.19.56 Complete SI No.29.56 Compl								
Series including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Section 5,(KSRRB SI No.19.56) No.19.56) No.19.56) No.19.56) No.19.56) No.19.56 N								
No.19.56 No.1	6							
Milagres Cross Road								
Ch.5.00 to Ch.160,00		,						
Anya Sama Road		Milagres Cross Road						
Ch.000 to Ch.980.00 Sqm 1 S80 9.00 5020.00			Sqm	1	155		6.80	1054.00
15b-Jumma Masjel - Old Port Road			Sam	1	590		9.00	5220.00
Ch.710.0 to Ch.970.00			Sqiii	I	360		9.00	3220.00
29-Bendre Ferry Road		-	Sam	1	260		4 50	1170.00
Ch.0.00 to Ch.260.00 Sqm 1 260 4.50 1170.00			Oqiii	'	200		4.50	1170.00
KSRRB 300-46. Scarliying stone metal crust 50mm to 100mm thick by road roller with scarlifer along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM of machinaries complete as per specifications. MORTH / Section 5. (KSRRB SI No.19.52) Milliagres Cross Road			Sqm	1	260		4.50	1170.00
thick by road roller with scarifier along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM of machinaries complete as per specifications. MORTH / Section 5. (KSRRB SI No.19.52) Millagres Cross Road Ch. 5.00 to Ch. 16.00 Arys Samaj Road Ch. 0.00 to Ch. 58.00 Ch. 0.00 to Ch. 58.00 Ch. 71.00 to Ch. 570.00 20-Bender Ferry Road Ch. 71.00 to Ch. 570.00 RCC Pipe Crossing- RCC Pipe Crossing- 1 7a-Millagres Cross Road Sqm 2 260 4.50 2340.00 27-Energing State S					Total Qty.			
thick by road roller with scarifier along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM of machinaries complete as per specifications. MORTH / Section 5. (KSRRB SI No.19.52) Millagres Cross Road Ch. 5.00 to Ch. 16.00 Arys Samaj Road Ch. 0.00 to Ch. 58.00 Ch. 0.00 to Ch. 58.00 Ch. 71.00 to Ch. 570.00 20-Bender Ferry Road Ch. 71.00 to Ch. 570.00 RCC Pipe Crossing- RCC Pipe Crossing- 1 7a-Millagres Cross Road Sqm 2 260 4.50 2340.00 27-Energing State S								
Surface dressing and stacking of lot serviceable materials including cost of all labour charges, HOM of machinaries complete as per specifications. MORTH / Section 5. (KSRRB SI No.19.52)								
Total Control of all labour charges, HOM of machinaries complete as per specifications, MORTH / Section 5, (KSRRB SI No.19.52)								
Milagres Cross Road	7							
Milagres Cross Road								
Ch.5.00 to Ch.160.00 Sqm 2 155 6.80 2108.00								
Ch.5.00 to Ch.160.00 Sqm 2 155 6.80 2108.00		Milagres Cross Road						
Arya Samaj Road			Sqm	2	155		6.80	2108.00
15b-Jumma Masjid-Old Port Road								
Ch.710.0 to Ch.970.00 Sqm 2 260 4.50 2340.00			Sqm	2	580		9.00	10440.00
20-Bendre Ferry Road			•		222		4.50	00.40.00
Ch.0.00 to Ch.260.00 Sqm 2 260 4.50 2340.00			Sqm	2	260		4.50	2340.00
RCC Pipe Crossing-			Sam	2	260		4.50	2340.00
1 7a-Milagres Cross Road Sqm 0 11 1.182 0.00			Oqiii		200		4.50	2540.00
2 7c-Nandigudda Road Sqm 22 16 1.182 416.06	1		Sqm	0	11		1.182	0.00
10-kudumbi Garden (DBS) Road Sqm 16 12 1.182 226.94	2			22			1.182	
198-Arya Samaj Road								
Sqm		10-Kudumbi Garden (DBS) Road	Sqm	16				
Total Reservice Total Rese								
8 15b-Jumma Masjid-Old Port Road Sqm 32 6 1.182 226.94 9 20-Bendre Ferry Road Sqm 36.8 12 1.182 521.97 KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonary, cement concrete, woodwork, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar (SI No : 18.23) Provisional Qty Cum 1 10 0.23 1.00 2.30 Removing B.S slab of drain and stacking.(PWD 18-19,5.32,Page No.32) Provisional Qty Sqm 1 50 3 150.00 KSRRB M800-Permanent type barricade in construction zone KSRRB M800-44.1. Construction of a permanent type barricade made of steel components, 1.5 m high from road level, fitted with 3 horizontal rails 200 mm wide and 4 m long on 50 x 50 x 5 mm angle iron vertical support, painted with yellow and white strips, 150 mm in width at an angle of 45°, complete as per IRC:SP:55-2014 complete as per specifications . A. With steel components (SI No : 24.45) Length of Road								
9 20-Bendre Ferry Road Sqm 36.8 12 1.182 521.97 KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonary, cement concrete, woodwork, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar (SI No : 18.23) Provisional Qty Cum 1 10 0.23 1.00 2.30 Cum Total Qty. 2.30 Removing B.S slab of drain and stacking.(PWD 18-19,5.32,Page No.32) Provisional Qty Sqm 1 50 3 150.00 KSRRB M800-Permanent type barricade in construction zone KSRRB M800-44.1. Construction of a permanent type barricade made of steel components, 1.5 m high from road level, fitted with 3 horizontal rails 200 mm wide and 4 m long on 50 x 50 x 5 mm angle iron vertical support, painted with yellow and white strips, 150 mm in width at an angle of 45°, complete as per IRC:SP:55-2014 complete as per specifications . A. With steel components (SI No : 24.45) Length of Road								
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(SI No : 24.45) Length of Road								
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Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Considered 500m length at 4 locations work will be in progress	Rm	4	250.00			1000.00
						Total Length	1000.00
	No. of Barricade = Length of Road / Length of one barricade (4.0m)	Nos.			Total Qty.		250.00
11	KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 5.00Km and complete as per specifications. MORTH specification No.301 (SI No : 19.14)						
	Pavement 7a-Milagres Cross Road						
	Ch.6.000 to Ch.165.000 8-New Balmatta Road	Cum	1	183	5.3	0.67	649.83
	Ch.0.00 to 580.00 19a-Arya Samaj Road	Cum	1	580	5.3	0.67	2059.58
	Ch.0.00 to 330.00	Cum	1	595	5.3	0.67	2112.85
	15b-Jumma Masjid Road Ch.720.0 to Ch.970.0	Cum	1	300	4.6	0.67	924.60
	20-Bendre Ferry Road Ch.0.00 to Ch.260.00	Cum	1	260	4.6	0.67	801.32
	19a-Balmatta Road			==0			
	Ch.0.00 to Ch.320.00 RHS LHS 20-Bendre Ferry Road	Cum Cum	1	291 250	0.5 0.5	0.67 0.67	97.49 83.75
	RHS						
	Ch.0.000 to Ch.170.0 Ch.188.0 to Ch.218.0	Cum Cum	1.0		1.0 0.9	0.67 0.67	113.90 18.69
	Ch.220.0 to Ch.270.0	Cum	1.0	50.0	2.0	0.67	67.00
	Ch.570.0 to Ch.705.0 Ch.770.0 to Ch.870.0	Cum Cum	1.0	135.0 100.0	1.1 1.3	0.67 0.67	99.50 85.09
	Ch.870.0 to Ch.925.0	Cum	1.0		1.2	0.67	44.22
	Ch.930.0 to Ch.1070.0 LHS	Cum	1.0		0.9	0.67	80.67
	Ch.125.0 to Ch.145.0 Ch.180.0 to Ch.200.00	Cum Cum	1.0 1.0			0.67 0.67	7.50 6.03
	Ch.260.0 to Ch.470.0	Cum	1.0			0.67	194.17
	Ch.530.0 to Ch.545.0	Cum	1.0			0.67	12.76
	Ch.590.0 to Ch.750.0 Ch.780.0 to Ch.905.0	Cum Cum	1.0 1.0			0.67 0.67	87.90 134.84
	Ch.915.0 to Ch.942.0	Cum	1.0			0.67	34.55
	Ch.950.0 to Ch.1100.0 Road 7C	Cum	1.0	150.0	1.6	0.67	163.82
	LHS						
	Ch.0.00 to Ch.45.0	Cum	1	45	0.7	0.67	21.11
	Ch.80.0 to Ch. 205.0 Ch.280.0 to Ch.300.0	Cum Cum	1	125 20	0.068 0.22	0.67 0.67	5.70 2.95
	Ch.305.0 to Ch.335.0	Cum	1	30	0.84	0.67	16.88
	Ch.410.0 Ch.500.0 to Ch.660.0	Cum Cum	1	5 160	1.2 0.68	0.67 0.67	4.02 72.90
	Ch.680.0 to Ch.745.0	Cum	1	65	0.00	0.67	11.32
	Ch.835.0 to Ch.880.0	Cum	1	45	0.74	0.67	22.31
	Ch.910.0 to Ch.930.0	Cum	1	20	0.07	0.67	0.94
	Ch.940.0 to Ch.950.0 Ch.960.0 RHS	Cum	1	10 5	0.68	0.67 0.67	4.56 1.04
	Ch.215.0 to Ch.230.0 Ch.350.0 to Ch.355.0	Cum Cum	1	15 5	0.24 0.75	0.67	2.41 2.51
	Ch.350.0 to Ch.355.0 Ch.385.0 to Ch.430.0	Cum	1	45	0.75	0.67 0.67	3.02
	Ch.460.0 to Ch.480.0	Cum	1	20	0.35	0.67	4.69
	Ch.765.0 to Ch.820.0	Cum Cum	1	55 24	0.35 0.42	0.67 0.67	12.90 6.75
-	Ch.980.0 to Ch.1004.0 Road 15a	Cuill	1		0.42	0.67	0.70
	LHS						
	Ch.80.0 to Ch.90.0	Cum	1	_	0.15	0.67	1.01
-	Ch.95.0 to Ch.110.0 Ch.180.0 to Ch.210.0	Cum Cum	1		0.13 0.23		1.31 4.62
	Ch.280.0 to Ch.300.0	Cum	1			0.67	1.74

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.350.0 to Ch.375.0	Cum	1	25	0.34	0.67	5.70
	Ch.410.0	Cum	1	5	0.53	0.67	1.78
	Ch.420.0	Cum	1	5	2.24	0.67	7.50
	Ch.570.0	Cum	1	5	0.62	0.67	2.08
	RHS				2.24	0.07	
	Ch.45.0 to Ch.75.0	Cum	1	30	0.34	0.67	6.83
	Ch.395.0 to ch.410.0	Cum	1	15	0.61	0.67	6.13
	Ch.485.0 to Ch.510.0	Cum	1	25 25	0.46	0.67	7.71
	Ch.545.0 to Ch.570.0 Ch.630.0 to Ch.640.0	Cum Cum	1	10	0.36 0.24	0.67 0.67	6.03 1.61
	C11.630.0 to C11.640.0	Cum		10	0.24	0.67	1.01
	Consider Panel Repairing for Existing CC Road @ 5%		+				
	7c-Attavar -Nandigudda Road	Cum	0.05	1021	7	0.7	250.15
	10-Kudumbi Garden (DBS) Road	Cum	0.05	375	6.2	0.7	81.38
	Balmatta Road	Cum	0.05	330	15	0.7	173.25
	15b-Jumma Masjid Road	Cum	0.2	700	5.5	0.7	539.00
	20-Bendre Ferry Road	Cum	0.2	800	10	0.7	1120.00
	20 Bondio i ony rioda	- Cum	0.2	000	10	0.1	1120.00
	Footpath						
	7a-Milagres Cross Road						
	RHS						
	Ch.10.000 to Ch.160.00	Cum	1.00	150.00	2.17	0.20	64.98
	7c-Attavar-Nandiguda Road						
	LHS						
	Ch.10.000 to Ch.130.00	Cum	1.00	120.00	3.33	0.20	79.92
	Ch.150.000 to Ch.410.00	Cum	1.00	260.00	3.18	0.20	165.36
	Ch.420.000 to Ch.480.00	Cum	1.00	250.00	3.42	0.20	171.00
	Ch.480.000 to Ch.670.00	Cum	1.00	250.00	1.95	0.20	97.50
	Ch.680.000 to Ch.720.00	Cum	1.00	40.00	2.29	0.20	18.32
	Ch.730.000 to Ch.800.00	Cum	1.00	70.00	2.23	0.20	31.22
	Ch.810.000 to Ch.850.00	Cum	1.00	40.00	2.10	0.20	16.80
	Ch.880.000 to Ch.950.00	Cum	1.00	70.00	2.24	0.20	31.36
	Ch.960.000 to Ch.1004.00	Cum	1.00	44.00	2.43	0.20	21.38
	RHS						
	Ch.10.000 to Ch.130.00	Cum	1.00	120.00	3.02	0.20	72.48
	Ch.140.000 to Ch.350.00	Cum	1.00	210.00	3.00	0.20	126.00
	Ch.360.000 to Ch.430.00	Cum	1.00	70.00	5.21	0.20	72.94
	Ch.440.000 to Ch.610.00	Cum	1.00	170.00	5.02	0.20	170.68
	Ch.610.000 to Ch.730.00	Cum	1.00	120.00	3.59	0.20	86.16
	Ch.740.000 to Ch.840.00	Cum	1.00	100.00	2.43	0.20	48.60
	Ch.870.000 to Ch.950.00 Ch.960.000 to Ch.1004.00	Cum Cum	1.00	80.00 44.00	2.64 5.30	0.20 0.20	42.24 46.64
	C11.900.000 to C11.1004.00	Cuili	1.00	44.00	5.30	0.20	40.04
	8-New Balmatta Road		+				
	LHS		+				
	Ch.30.000 to Ch.150.00	Cum	1.00	120.00	3.10	0.20	74.40
	Ch.520.000 to Ch.580.00	Cum	1.00	60.00	3.73	0.20	44.76
	RHS	Cum	0.00	0.00	0.00	0.20	0.00
	Ch.30.000 to Ch.80.00	Cum	1.00	50.00	4.44	0.20	44.40
	Ch.90.000 to Ch.150.00	Cum	1.00	60.00	3.05	0.20	36.60
	Ch.515.000 to Ch.560.00	Cum	1.00	45.00	2.67	0.20	24.03
					-		
	10-Kudumbi Garden (DBS)Road						
	LHS						
	Ch.10.000 to Ch.90.00	Cum	1.00	80.00	2.28	0.20	36.48
	Ch.90.000 to Ch.135.00	Cum	1.00	45.00	2.27	0.20	20.43
	Ch.140.000 to Ch.250.00	Cum	1.00	110.00	1.51	0.20	33.22
	Ch.140.000 to Ch.340.00	Cum	1.00	200.00	0.74	0.20	29.60
	RHS						
	Ch.10.000 to Ch.140.00	Cum	1.00	130.00	2.55	0.20	66.30
	Ch.190.000 to Ch.210.00	Cum	1.00	20.00	1.70	0.20	6.80
	Ch.220.000 to Ch.360.00	Cum	1.00	140.00	2.36	0.20	66.08
<u> </u>	19b-Balmatta Road						
<u> </u>	LHS						
<u> </u>	Ch.30.000 to Ch.300.00	Cum	1.00	270.00	4.43	0.20	239.22
	19a						
ļ	LHS						
	Ch.340.000 to Ch.350.00	Cum	1.00	10.00	10.00	0.20	20.00
ļ	Ch.370.000 to Ch.390.00	Cum	1.00	20.00	2.05	0.20	8.20
	Ch.390.000 to Ch.570.00	Cum	1.00	180.00	2.04	0.20	73.44
	Ch.590.000 to Ch.620.00	Cum	1.00	30.00	2.20	0.20	13.20
	Ch.650.000 to Ch.660.00	Cum	1.00	10.00	1.13	0.20	2.27

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.700.000 to Ch.840.00	Cum	1.00	140.00	3.24	0.20	90.72
	RHS Ch.30.000 to Ch.300.00	Cum	1.00	270.00	4.55	0.20	245.70
	Ch.340.000 to Ch.630.00	Cum	1.00	290.00	2.14	0.20	124.12
	Ch.650.000 to Ch.660.00	Cum	1.00	10.00	2.05	0.20	4.10
	Ch.700.000 to Ch.845.00	Cum	1.00	145.00	2.94	0.20	85.26
	15a-Azizuddin Road						
	LHS Ch.00.000 to Ch.90.00	Cum	1.00	90.00	2.19	0.20	39.42
	Ch.100.000 to Ch.220.00	Cum	1.00	120.00	2.15	0.20	51.60
	Ch.220.000 to Ch.300.00	Cum	1.00	80.00	2.23	0.20	35.68
	Ch.310.000 to Ch.420.00	Cum	1.00	110.00	1.69	0.20	37.18
	Ch.420.000 to Ch.490.00 Ch.490.000 to Ch.570.00	Cum Cum	1.00 1.00	70.00 80.00	2.46 1.86	0.20 0.20	34.44 29.76
	Ch.580.000 to Ch.570.00	Cum	1.00	60.00	1.83	0.20	21.96
	Ch.650.000 to Ch.710.00	Cum	1.00	60.00	1.60	0.20	19.20
	RHS						
	Ch.00.000 to Ch.90.00	Cum	1.00	90.00	1.82	0.20	32.76
	Ch.100.000 to Ch.220.00 Ch.220.000 to Ch.320.00	Cum Cum	1.00 1.00	220.00 100.00	1.27 1.67	0.20 0.20	55.88 33.40
	Ch.330.000 to Ch.410.00	Cum	1.00	80.00	2.23	0.20	35.68
	Ch.420.000 to Ch.570.00	Cum	1.00	150.00	2.24	0.20	67.20
	Ch.580.000 to Ch.710.00	Cum	1.00	130.00	1.78	0.20	46.28
	15b-Jumma Masjid-Old Port Road						
	LHS		4.00	00.00	0.40	0.00	00.40
	Ch.00.000 to Ch.90.00 Ch.100.000 to Ch.220.00	Cum Cum	1.00	90.00 120.00	2.19 2.15	0.20 0.20	39.42 51.60
	Ch.220.000 to Ch.300.00	Cum	1.00	80.00	2.13	0.20	35.68
	Ch.310.000 to Ch.420.00	Cum	1.00	110.00	1.69	0.20	37.18
	Ch.420.000 to Ch.490.00	Cum	1.00	70.00	2.46	0.20	34.44
	Ch.490.000 to Ch.570.00	Cum	1.00	80.00	1.86	0.20	29.76
	Ch.580.000 to Ch.640.00 Ch.650.000 to Ch.710.00	Cum Cum	1.00 1.00	60.00 60.00	1.83 1.60	0.20 0.20	21.96 19.20
	RHS	Culli	1.00	60.00	1.00	0.20	19.20
	Ch.00.000 to Ch.90.00	Cum	1.00	90.00	1.82	0.20	32.76
	Ch.100.000 to Ch.220.00 Ch.220.000 to Ch.320.00	Cum Cum	1.00 1.00	120.00 100.00	2.33 1.67	0.20 0.20	55.92
	Ch.330.000 to Ch.410.00	Cum	1.00	80.00	2.23	0.20	33.40 35.68
	Ch.420.000 to Ch.570.00	Cum	1.00	150.00	2.24	0.20	67.20
	Ch.580.000 to Ch.710.00	Cum	1.00	130.00	1.78	0.20	46.28
	20-Bendre Ferry Road						
	LHS Ch.00.000 to Ch.80.00	Cum	1.00	80.00	1.64	0.20	26.24
	Ch.80.000 to Ch.140.00	Cum	1.00	60.00	1.77	0.20	21.24
	Ch.180.000 to Ch.220.00	Cum	1.00	40.00	2.35	0.20	18.80
	Ch.230.000 to Ch.250.00	Cum	1.00	20.00	3.40	0.20	13.60
	Ch.250.000 to Ch.530.00	Cum	1.00	280.00	2.31	0.20	129.36
	RHS Ch.530.000 to Ch.580.00	Cum	1.00	50.00	5.60	0.20	56.00
	Ch.705.000 to Ch.1040.00	Cum	1.00	335.00	2.29	0.20	153.43
	Parking Area						
	Road 7c						
	LHS						
	Ch.530.000 to Ch.590.000 RHS	Cum	1	60	2.5	0.51	75.75
	Ch.530.000 to Ch.590.000	Cum	1	71.13	2.5	0.51	89.80
	Road 8					3.0 /	
	LHS Ch.50.000 to Ch.80.000	Cum	1	25.32	2	0.51	25.57
	RHS	Cuiii	<u>'</u>	20.02		0.51	20.01
	Ch.50.000 to Ch.80.000 Road 19b	Cum	1	24.92	2	0.51	25.17
	RHS						
	Ch.90.000 to Ch.250.000	Cum	1	129.7	2.5	0.51	163.75
	Road 19a				+		
	Ch.760.000 to Ch.830.000	Cum	1	53.83	2.5	0.51	67.96
	RHS Ch.760.000 to Ch.830.000	Cum	1	24.1	2.5	0.51	30.43

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
4	Electrical Trench						
1	7a RHS	Cum	1	183	1.1	1.50	301.95
	LHS	Cum	1		1.1	1.50	301.95
2	7c						
	RHS LHS	Cum Cum	1		1.1 1.1	1.50 1.50	1684.65 1684.65
3	8	Cuiii		1021	1.1	1.50	1004.03
	RHS	Cum	1		1.1	1.50	952.05
	LHS	Cum	1	577	1.1	1.50	952.05
4	10 RHS	Cum	1	375	1.1	1.50	618.75
	LHS	Cum	1		1.1	1.50	618.75
5	19						
	RHS LHS	Cum Cum	1		1.1 1.1	1.50 1.50	1526.25 1526.25
6	15a	Culli	!	925	1.1	1.50	1320.23
	RHS	Cum	1		1.1	1.50	1183.05
	LHS	Cum	1	717	1.1	1.50	1183.05
7	15b RHS	Cum	1	966	1.1	1.50	1593.90
	LHS	Cum	1	966	1.1	1.50	1593.90
9	20						
	RHS	Cum	1		1.1	1.50	1819.95
	LHS SWD	Cum	1	1103	1.1	1.50	1819.95
	Road 7a			Sides	2.00		
	Node-CO-504						
	Base Nada CO FOE	Cum	1	26.4	1.8	1.29	61.30
	Node-CO-505 Base	Cum	1	137.5	1.8	1.66	410.85
	5400						110.00
	Road 7c			Sides	2.00		
1	Node-CO-64 Base	Cum	2	127.7	2	2.81	1435.35
2	Node-CO-65	Cuiii		121.1		2.01	1433.33
	Base	Cum	2	125.6	2	2.84	1426.82
3	Node-CO-66	0	0	07.0		0.00	000.04
4	Base Node-CO-67	Cum	2	67.9	2	2.96	803.94
	Base	Cum	2	34.8	2	2.57	357.74
5	Node-CO-68						
6	Base Node-CO-69	Cum	2	29.4	1.8	1.61	170.40
0	Base	Cum	2	39.8	1.8	1.04	148.29
7	Node-CO-70						
	Base	Cum	2	36.5	1.7	0.88	108.59
8	Node-CO-80 Base	Cum	2	73.8	1.8	1.42	377.27
9	Node-CO-81		_	. 0.0			0
	Base	Cum	2	40.5	1.8	1.42	207.04
10	Node-CO-82 Base	Cum	2	31.7	1.8	1.14	130.10
11	Node-CO-78	Juili		31.7	1.0	1.14	100.10
	Base	Cum	2	22.3	1.8	1.66	132.86
12	Node-CO-77 Base	Cum	2	23.6	1.0	2.16	183.09
13	Node-CO-79	Cuiti	2	23.0	1.8	2.16	100.09
	Base	Cum	2	33.6	1.7	1.11	126.24
				0.1			
1	Road 8 Node-CO-35	-		Sides	1.00		
	Base	Cum	1	75.6	1.8	1.67	227.25
2	Node-CO-36						
	Base	Cum	1	33.5	1.7	0.89	50.40
3	Node-CO-37 Base	Cum	1	31	1.7	0.91	47.96
4	Node-CO-38						
	Base	Cum	1	48.9	1.7	0.89	73.99
5	Node-CO-39 Base	Cum	1	99.9	1.8	1.83	329.07
6	Node-CO-40	Cuili	1	99.9	1.8	1.03	328.07
	Base	Cum	1	95.4	2	2.68	510.39
7	Node-CO-41						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Base	Cum	1	28	1.8	2.10	105.84
8	Node-CO-42 Base	Cum	1	46.1	1.8	2.20	182.56
9	Node-CO-43						
10	Base Node-CO-44	Cum	1	17	1.8	1.93	59.06
44	Base	Cum	1	34.7	1.8	1.50	93.38
11	Node-CO-45 Base	Cum	1	34.8	1.7	1.09	64.19
12	Node-CO-46	Cum	4	0.0	2.4	2.05	04.00
13	Base Node-CO-47	Cum	1	9.3	2.4	3.65	81.36
	Base	Cum	1	14.2	2.4	3.65	124.39
	Road 19			Sides	2.00		
1	Node-CO-163 Base	Cum	2	24.3	1.8	1.68	146.53
2	Node-CO-164	Cum		24.3	1.0	1.00	140.53
3	Base Node-CO-165	Cum	2	29.9	1.8	1.49	160.38
	Base	Cum	2	43.4	1.8	1.40	218.74
4	Node-CO-166 Base	Cum	2	20.9	1.8	1.37	103.08
5	Node-CO-167						
6	Base Node-CO-168	Cum	2	33.5	1.8	1.34	161.00
	Base	Cum	2	47.3	1.7	1.16	186.55
7	Node-CO-169 Base	Cum	2	68.4	1.8	1.02	249.93
8	Node-CO-170						
9	Base Node-CO-171	Cum	2	120.2	1.8	1.02	441.37
	Base	Cum	2	70.8	1.8	0.99	252.33
10	Node-CO-172 Base	Cum	2	103.2	1.8	1.11	410.53
					4.00		
1	Road-15a Node-CO-182			Sides	1.00		
2	Base Node-CO-192	Cum	1	27.2	1.8	1.87	91.31
	Base	Cum	1	59.8	1.8	1.22	130.78
3	Node-CO-481 Base	Cum	1	28.1	1.8	1.87	94.58
4	Node-CO-482					1.07	
5	Base Node-CO-190	Cum	1	58.7	1.8	1.22	128.91
	Base	Cum	1	62.8	1.8	1.50	169.56
6	Node-CO-184 Base	Cum	1	151.1	1.8	1.50	406.61
7	Node-CO-195						
8	Base Node-CO-187	Cum	1	170	1.8	1.53	468.18
	Base	Cum	1	80.5	1.8	1.12	161.56
9	Node-CO-188 Base	Cum	1	43.1	1.8	1.43	110.55
10	Node-CO-189						
11	Base Node-CO-483	Cum	1	97.4	1.8	1.17	205.12
	Base	Cum	1	64.4	2	3.14	404.43
12	Node-CO-484 Base	Cum	1	120.6	1.8	1.86	402.68
13	Node-CO-485						
14	Base Node-CO-486	Cum	1	30.5	1.8	0.97	52.98
	Base	Cum	1	169.2	1.8	0.86	261.92
	15a-New Drain			1			
1	MH-524	Cum	1	27.7	1.8	1.87	92.99
	Base	Culli	1	21.1	1.8	1.07	32.33
2	MH-525 Base	Cum	1	59.4	1.6	1.22	115.47
		Juili	'	55.4	1.0	1.22	110.47
3	MH-527						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Base	Cum	1	62.8	1.7	1.59	169.75
4	MH-528						
	Base	Cum	1	120.5	1.7	1.51	308.30
5	MH-529						
	Base	Cum	1	29.7	1.7	1.53	77.25
	MU FOO						
6	MH-530 Base	Cum	1	170.8	1.7	1.60	463.12
-	MIL FOO						
7	MH-532 Base	Cum	1	80.5	1.6	1.12	143.61
8	MH-533 Base	Cum	1	43.1	1.8	1.43	110.55
				.0		0	110.00
9	MH-534 Base	Cum	1	97.4	1.6	1.17	182.33
		Ouiii			1.0	1.17	102.00
	Road 15b			Sides	1.00		
1	Node-CO-467 Base	Cum	1	79.8	1.7	0.86	116.67
2	Node-CO-469						
3	Base Node-CO-470	Cum	1	23.8	1.7	1.24	50.17
	Base	Cum	1	62.6	1.7	0.91	96.84
4	Node-CO-473 Base	Cum	1	30.4	1.7	1.17	60.47
5	Node-CO-474	Ouiii			1.7	1.17	00.47
6	Base Node-CO-472	Cum	1	62	1.7	1.32	138.60
- 6	Base	Cum	1	32	1.8	1.29	74.02
7	Node-CO-468			20.4	4 7	4.07	20.11
8	Base Node-CO-495	Cum	1	28.4	1.7	1.37	66.14
	Base	Cum	1	88.4	1.7	0.96	144.27
9	Node-CO-496 Base	Cum	1	76.4	1.7	1.23	159.10
10	Node-CO-499						
	Base Node-CO-497	Cum	1	4.2	1.7	1.30	9.28
- ' '	Base	Cum	1	87.6	1.7	0.91	134.77
12	Node-CO-498 Base	Cum	1	75.9	1.7	1.08	120.25
13	Node-CO-494	Cuiii	1	75.9	1.7	1.06	139.35
	Base	Cum	1	77.3	1.7	0.86	113.01
14	Node-CO-503 Base	Cum	1	76.6	1.7	0.86	111.99
15	Node-CO-501						
16	Base Node-CO-502	Cum	1	32.5	1.7	0.88	48.34
	Base	Cum	1	56.2	1.7	0.86	82.16
17	Node-CO-492 Base	Cum	1	30.9	1.7	0.86	45.18
18	Node-CO-493						
19	Base Node-CO-500	Cum	1	56.5	1.7	0.86	82.60
13	Base	Cum	1	32.4	1.7	0.86	47.37
20	Node-CO-491 Base	Cum	1		4 7	0.00	46 70
21	Node-CO-490	Cum	1	32	1.7	0.86	46.78
	Base	Cum	1	24.8	1.7	0.90	37.94
22	Node-CO-488 Base	Cum	1	39	1.7	0.87	57.68
23	Node-CO-489						
24	Base Node-CO-487	Cum	1	44.3	1.7	0.86	64.77
	Base	Cum	1	23.2	1.7	0.87	34.31
25	Node-CO-221 Base	Cum	1	101.3	1.7	1.48	254.87
		Juili	<u>'</u>			1.40	204.01
1	Road 20 Node-CO-455			Sides	2.00		
	140UG=00=433	<u> </u>		I			

Node-CO-456	Sr. No.	Description	Unit	No's	L	В	Н	Qty.
Sase			Cum	2	87	1.8	2.24	700.00
3 Node-CO-457 Same			Cum	2	95.8	1.8	1.72	593.19
A Node-CO-458 Cum 2 106.2 1.8 1.66 622.99	3	Node-CO-457						
Base	4		Cum	2	82.7	1.8	1.60	476.35
Base			Cum	2	105.2	1.8	1.65	622.99
Base	5				00.5	1.0	1.00	070.50
Base	6	1111	Cum	2	62.5	1.8	1.66	373.50
Base		Base	Cum	2	48.1	1.8	1.50	258.87
8 Node-CO-462	7		Cum	2	47.0	4.0	4.40	050.00
Base	8		Cum		47.8	1.8	1.48	253.82
Base		Base	Cum	2	18.3	1.8	1.55	102.11
10 Node-CO-464	9		Cum	2	10.0	1 Ω	1 52	100.61
11 Node-CO-479	10		Cuiii		19.9	1.0	1.00	109.01
Base		1111	Cum	2	15.8	1.8	1.50	85.04
12 Node-CO-480	11		Cum	2	244.3	1.8	1 17	1024 50
13 Node-CO-177	12		Odili		244.0	1.0	1.17	1024.53
Base	- 10		Cum	2	170.7	1.8	0.89	543.85
14 Node-Co-348	13		Cum	2	74.2	1.8	0.89	236.40
15 Node-Co-349	14		Odili		77.2	1.0	0.00	200.40
Base Cum 2 75.2 1.8 1.96 529.26			Cum	2	15.4	1.8	1.96	108.39
RCC Pipe Crossing-	15		Cum	2	75.2	1.8	1 96	529 26
1 7a-Millagres Cross Road		2000	Odili		70.2	1.0		020.20
2 7c-Nandigudda Road								
3 8-New Baimstat Road								
4 10-Kudumbi Garden (DBS) Road								
6 19bBalmata Road Cum 4 26 1.182 0.5 61.46 7 15a-Azizuddin Road Cum 8 111 1.182 0.5 52.01 8 15b-Jurma Masjid-Old Port Road Cum 20 6 1.182 0.5 70.92 9 20-Bendre Ferry Road Cum 23 12 1.182 0.5 70.92 9 20-Bendre Ferry Road Cum Total Cy. 58388.11 58388.11 KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications. 170	4		Cum	8	12	1.182		56.74
7								
8								
KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Total Excavation for Electrical Duct	8		Cum	20	6	1.182		
KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Total Excavation for Electrical Duct	9	20-Bendre Ferry Road		23		1.182	0.5	
Pipe Volume-Dia 200mm	12	layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto			Total City.			0000.11
Pipe Volume-Dia 200mm		Total Excavation for Electrical Duct	Cum					19361 10
7c-Nandigudda Road					Length	C/s Area		13301.10
8-New Balmatta Road								
10-Kudumbi Garden (DBS) Road								
15a-Azizuddin Road								
15b-Jumma Masjid-Old Port Road								
20-Bendre Ferry Road								
Pipe Volume-Dia 160mm Cum -2 183 0.020096 -7.36 7c-Nandigudda Road Cum -4 1021 0.020096 -82.07 8-New Balmatta Road Cum -4 577 0.020096 -46.38 10-Kudumbi Garden (DBS) Road Cum -8 750 0.020096 -120.58 19a-Arya Samaj Road Cum -6 1850 0.020096 -223.07 15a-Azizuddin Road Cum -4 1434 0.020096 -115.27 15b-Jumma Masjid-Old Port Road Cum -2 966 0.020096 -38.83 20-Bendre Ferry Road Cum -4 2206 0.020096 -177.33 Electrical Concrete Cum -391 2 0.9 -703.80 Total Excavation for SWD Cum -1 6680.96 -6680.96								
7c-Nandigudda Road Cum -4 1021 0.020096 -82.07 8-New Balmatta Road Cum -4 577 0.020096 -46.38 10-Kudumbi Garden (DBS) Road Cum -8 750 0.020096 -120.58 19a-Arya Samaj Road Cum -6 1850 0.020096 -223.07 15a-Azizuddin Road Cum -4 1434 0.020096 -115.27 15b-Jumma Masjid-Old Port Road Cum -2 966 0.020096 -38.83 20-Bendre Ferry Road Cum -4 2206 0.020096 -177.33 Electrical Concrete Cum -391 2 0.9 -703.80 Total Excavation for SWD Cum -1 6680.96 -6680.96 Concrete Volume of SWD Cum -1 6680.96 -6680.96		Pipe Volume-Dia 160mm	Cum					
8-New Balmatta Road Cum -4 577 0.020096 -46.38 10-Kudumbi Garden (DBS) Road Cum -8 750 0.020096 -120.58 19a-Arya Samaj Road Cum -6 1850 0.020096 -223.07 15a-Azizuddin Road Cum -4 1434 0.020096 -115.27 15b-Jumma Masjid-Old Port Road Cum -2 966 0.020096 -38.83 20-Bendre Ferry Road Cum -4 2206 0.020096 -177.33 Electrical Concrete Cum -391 2 0.9 -703.80 Total Excavation for SWD Cum -391 2 0.9 -703.80 Concrete Volume of SWD Cum -1 6680.96 -6680.96								
10-Kudumbi Garden (DBS) Road								
15a-Azizuddin Road								
15b-Jumma Masjid-Old Port Road Cum -2 966 0.020096 -38.83 20-Bendre Ferry Road Cum -4 2206 0.020096 -177.33 Electrical Concrete Cum Electrical Chamber Volume Cum -391 2 0.9 -703.80 Total Excavation for SWD Cum Concrete Volume of SWD Cum -1 6680.96 -6680.96		19a-Arya Samaj Road						
20-Bendre Ferry Road								
Electrical Concrete								
Total Excavation for SWD 23347.39 Cum		Electrical Concrete	Cum					
Cum Cum Concrete Volume of SWD Cum -1 6680.96 -6680.96		Elctrical Chamber Volume	Cum	-391	2	0.9		-703.80
Concrete Volume of SWD Cum -1 6680.96 -6680.96		Total Excavation for SWD						23347.39
		Concrete Volume of SWD		1	6680 06			-8680 06
		PCC Volume of SWD	Cum					-884.29

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Void Area of SWD	Cum Cum					
	Road 7a	Cum		Sides	2.00		
	Node-CO-504			22.4			10.17
	Base Node-CO-505	Cum	1	26.4	0.6	1.04	16.47
	Base	Cum	1	137.5	0.6	1.41	116.33
	Road 7c			Sides	2.00		
1	Node-CO-64			Sides	2.00		
	Base	Cum	2	127.7	0.6	2.56	392.29
2	Node-CO-65 Base	Cum	2	125.6	0.6	2.59	390.36
3	Node-CO-66						
4	Base Node-CO-67	Cum	2	67.9	0.6	2.71	220.81
	Base	Cum	2	34.8	0.6	2.32	96.88
5	Node-CO-68 Base	Cum	2	29.4	0.6	1.36	47.98
6	Node-CO-69	Cum		23.4	0.0	1.50	47.30
	Base	Cum	2	39.8	0.6	0.79	37.49
7	Node-CO-70 Base	Cum	2	36.5	0.6	0.63	27.38
8	Node-CO-80						
9	Base Node-CO-81	Cum	2	73.8	0.6	1.17	103.62
	Base	Cum	2	40.5	0.6	1.17	56.86
10	Node-CO-82	Course	0	24.7	0.0	0.00	22.00
11	Base Node-CO-78	Cum	2	31.7	0.6	0.89	33.86
	Base	Cum	2	22.3	0.6	1.41	37.60
12	Node-CO-77 Base	Cum	2	23.6	0.6	1.91	53.95
13	Node-CO-79			20.0	0.0	1.01	
	Base	Cum	2	33.6	0.6	0.86	34.47
	Road 8			Sides	1.00		
1	Node-CO-35			75.0	0.0	4.40	04.44
2	Base Node-CO-36	Cum	1	75.6	0.6	1.42	64.41
	Base	Cum	1	33.5	0.6	0.64	12.76
3	Node-CO-37 Base	Cum	1	31	0.6	0.66	12.28
4	Node-CO-38				0.0	0.00	12.20
5	Base Node-CO-39	Cum	1	48.9	0.6	0.64	18.78
3	Base	Cum	1	99.9	0.6	1.58	94.71
6	Node-CO-40			25.4	0.0	0.40	100.01
7	Base Node-CO-41	Cum	1	95.4	0.6	2.43	138.81
	Base	Cum	1	28	0.6	1.85	31.08
8	Node-CO-42 Base	Cum	1	46.1	0.6	1.95	53.94
9	Node-CO-43		<u>'</u>	40.1	0.0	1.00	
10	Base	Cum	1	17	0.6	1.68	17.14
10	Node-CO-44 Base	Cum	1	34.7	0.6	1.25	25.92
11	Node-CO-45						
12	Base Node-CO-46	Cum	1	34.8	0.6	0.84	17.43
	Base	Cum	1	9.3	0.6	3.40	18.94
13	Node-CO-47 Base	Cum	1	14.2	0.6	3.40	28.97
		Juili	<u>'</u>			5.40	20.31
	Road 19			Sides	2.00		
1	Node-CO-163 Base	Cum	2	24.3	0.6	1.43	41.55
2	Node-CO-164						
3	Base Node-CO-165	Cum	2	29.9	0.6	1.24	44.49
	Base	Cum	2	43.4	0.6	1.15	59.89
4	Node-CO-166 Base	Cum	2	20.9	0.6	1.12	28.09
5	Node-CO-167	Cuili		20.9	0.0	1.12	20.09
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Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Base	Cum	2	33.5	0.6	1.09	43.62
6	Node-CO-168 Base	Cum	2	47.3	0.6	0.91	51.65
7	Node-CO-169						
8	Base Node-CO-170	Cum	2	68.4	0.6	0.77	62.79
	Base	Cum	2	120.2	0.6	0.77	111.06
9	Node-CO-171 Base	Cum	2	70.8	0.6	0.74	62.87
10	Node-CO-172						
	Base	Cum	2	103.2	0.6	0.86	105.88
	Road-15a			Sides	1.00		
1	Node-CO-182 Base	Cum	1	27.2	0.6	1.62	26.36
2	Node-CO-192						
3	Base Node-CO-481	Cum	1	59.8	0.6	0.97	34.62
	Base	Cum	1	28.1	0.6	1.62	27.31
4	Node-CO-482 Base	Cum	1	58.7	0.6	0.97	34.16
5	Node-CO-190						
6	Base Node-CO-184	Cum	1	62.8	0.6	1.25	47.10
	Base	Cum	1	151.1	0.6	1.25	112.87
7	Node-CO-195 Base	Cum	1	170	0.6	1.28	130.56
8	Node-CO-187						
9	Base Node-CO-188	Cum	1	80.5	0.6	0.87	41.78
	Base	Cum	1	43.1	0.6	1.18	30.39
10	Node-CO-189 Base	Cum	1	97.4	0.6	0.92	53.76
11	Node-CO-483						
12	Base Node-CO-484	Cum	1	64.4	0.6	2.89	111.67
	Base	Cum	1	120.6	0.6	1.61	116.14
13	Node-CO-485 Base	Cum	1	30.5	0.6	0.72	13.08
14	Node-CO-486						
	Base	Cum	1	169.2	0.6	0.61	61.93
	15a-New Drain			1			
1	MH-524 Base	Cum	1	27.7	0.6	1.62	26.84
						-	
2	MH-525 Base	Cum	1	59.4	0.6	0.97	34.39
3	MH-527 Base	Cum	1	62.8	0.6	1.34	50.49
					2.2		
4	MH-528 Base	Cum	1	120.5	0.6	1.26	90.74
-					-	-	
5	MH-529 Base	Cum	1	29.7	0.6	1.28	22.81
6	MH-530 Base	Cum	1	170.8	0.6	1.35	137.84
7							
7	MH-532 Base	Cum	1	80.5	0.6	0.87	41.78
•							
8	MH-533 Base	Cum	1	43.1	0.6	1.18	30.39
9	MH-534 Base	Cum	1	97.4	0.6	0.92	53.76
1	Road 15b Node-CO-467			Sides	1.00		
	Base	Cum	1	79.8	0.6	0.61	29.21
2	Node-CO-469	<u> </u>	<u> </u>	<u> </u>			

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Base	Cum	1	23.8	0.6	0.99	14.14
3	Node-CO-470 Base	Cum	1	62.6	0.6	0.66	24.79
4	Node-CO-473						
5	Base Node-CO-474	Cum	1	30.4	0.6	0.92	16.78
	Base	Cum	1	62	0.6	1.07	39.62
6	Node-CO-472 Base	Cum	1	32	0.6	1.04	19.87
7	Node-CO-468				2.0	4.40	10.00
8	Base Node-CO-495	Cum	1	28.4	0.6	1.12	19.08
	Base	Cum	1	88.4	0.6	0.71	37.66
9	Node-CO-496 Base	Cum	1	76.4	0.6	0.98	44.69
10	Node-CO-499	Curr	4	4.0	0.0	1.05	2.05
11	Base Node-CO-497	Cum	1	4.2	0.6	1.05	2.65
12	Base Node-CO-498	Cum	1	87.6	0.6	0.66	34.43
12	Base	Cum	1	75.9	0.6	0.83	37.80
13	Node-CO-494 Base	Cum	1	77.3	0.6	0.61	28.29
14	Node-CO-503						
15	Base Node-CO-501	Cum	1	76.6	0.6	0.61	28.04
15	Base	Cum	1	32.5	0.6	0.63	12.19
16	Node-CO-502 Base	Cum	1	56.2	0.6	0.61	20.57
17	Node-CO-492						
18	Base Node-CO-493	Cum	1	30.9	0.6	0.61	11.31
	Base	Cum	1	56.5	0.6	0.61	20.68
19	Node-CO-500 Base	Cum	1	32.4	0.6	0.61	11.86
20	Node-CO-491						
21	Base Node-CO-490	Cum	1	32	0.6	0.61	11.71
	Base	Cum	1	24.8	0.6	0.65	9.67
22	Node-CO-488 Base	Cum	1	39	0.6	0.62	14.51
23	Node-CO-489				2.0		
24	Base Node-CO-487	Cum	1	44.3	0.6	0.61	16.21
25	Base	Cum	1	23.2	0.6	0.62	8.63
25	Node-CO-221 Base	Cum	1	101.3	0.6	1.23	74.76
	Road 20			Sides	2.00		
1	Node-CO-455				2.00		
2	Base Node-CO-456	Cum	2	87	0.6	1.99	207.23
	Base	Cum	2	95.8	0.6	1.47	168.99
3	Node-CO-457 Base	Cum	2	82.7	0.6	1.35	133.97
4	Node-CO-458						
5	Base Node-CO-459	Cum	2	105.2	0.6	1.40	176.10
	Base	Cum	2	62.5	0.6	1.41	105.75
6	Node-CO-460 Base	Cum	2	48.1	0.6	1.25	71.86
7	Node-CO-461						
8	Base Node-CO-462	Cum	2	47.8	0.6	1.23	70.27
	Base	Cum	2	18.3	0.6	1.30	28.55
9	Node-CO-463 Base	Cum	2	19.9	0.6	1.28	30.57
10	Node-CO-464						
11	Base Node-CO-479	Cum	2	15.8	0.6	1.25	23.61
	Base	Cum	2	244.3	0.6	0.92	268.24
12	Node-CO-480 Base	Cum	2	170.7	0.6	0.64	130.07
13	Node-CO-477						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Base	Cum	2	74.2	0.6	0.64	56.54
14	Node-CO-348	0	0	45.4	0.0	4 74	04.54
15	Base Node-CO-349	Cum	2	15.4	0.6	1.71	31.51
10	Base	Cum	2	75.2	0.6	1.71	153.86
		Cum		Total Qty.			38867.33
	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller						
13	including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3						
	Footpath						
	7a-Milagres Cross Road RHS						
	Ch.10.000 to Ch.160.00	Sqm	1.00	150.00	2.17		324.90
		- 4					0200
	7c-Attavar-Nandiguda Road						
	LHS	Cours	4.00	120.00	2.22		200.00
	Ch.10.000 to Ch.130.00 Ch.150.000 to Ch.410.00	Sqm Sqm	1.00		3.33 3.18		399.60 826.80
	Ch.420.000 to Ch.480.00	Sqm	1.00	250.00	3.42		855.00
	Ch.480.000 to Ch.670.00	Sqm	1.00	250.00	1.95		487.50
	Ch.680.000 to Ch.720.00	Sqm	1.00	40.00	2.29		91.60
	Ch.730.000 to Ch.800.00	Sqm	1.00		2.23		156.10
	Ch.810.000 to Ch.850.00 Ch.880.000 to Ch.950.00	Sqm Sqm	1.00 1.00	40.00 70.00	2.10 2.24		84.00 156.80
	Ch.960.000 to Ch.1930.00 Ch.960.000 to Ch.1004.00	Sqm	1.00	44.00	2.43		106.92
	RHS	Oqm	1.00	11.00	2.10		100.02
	Ch.10.000 to Ch.130.00	Sqm	1.00	120.00	3.02		362.40
	Ch.140.000 to Ch.350.00	Sqm	1.00		3.00		630.00
	Ch.360.000 to Ch.430.00	Sqm	1.00	70.00	5.21		364.70
	Ch.440.000 to Ch.610.00 Ch.610.000 to Ch.730.00	Sqm Sqm	1.00	170.00 120.00	5.02 3.59		853.40 430.80
	Ch.740.000 to Ch.840.00	Sqm	1.00		2.43		243.00
	Ch.870.000 to Ch.950.00	Sqm	1.00		2.64		211.20
	Ch.960.000 to Ch.1004.00	Sqm	1.00	44.00	5.30		233.20
	8-New Balmatta Road						
	LHS	0	4.00	400.00	0.40		070.00
	Ch.30.000 to Ch.150.00 Ch.520.000 to Ch.580.00	Sqm Sqm	1.00 1.00		3.10 3.73		372.00 223.80
	RHS	Sqiii	1.00	00.00	3.73		223.00
	Ch.30.000 to Ch.80.00	Sqm	1.00	50.00	4.44		222.00
	Ch.90.000 to Ch.150.00	Sqm	1.00		3.05		183.00
	Ch.515.000 to Ch.560.00	Sqm	1.00	45.00	2.67		120.15
	10-Kudumbi Garden (DBS)Road						
<u> </u>	LHS Ch.10.000 to Ch.90.00	Sqm	1.00	80.00	2.28		182.40
	Ch.10.000 to Ch.90.00 Ch.90.000 to Ch.135.00	Sqm	1.00		2.20		102.15
	Ch.140.000 to Ch.250.00	Sqm	1.00		1.51		166.10
	Ch.140.000 to Ch.340.00	Sqm	1.00		0.74	_	148.00
	RHS						
	Ch.10.000 to Ch.140.00 Ch.190.000 to Ch.210.00	Sqm Sqm	1.00 1.00		2.55 1.70		331.50 34.00
	Ch.220.000 to Ch.360.00	Sqm	1.00		2.36		330.40
				. 10.00			
	19b-Balmatta Road LHS						
	Ch.30.000 to Ch.300.00	Sqm	1.00	270.00	4.43		1196.10
	19a LHS						
	Ch.340.000 to Ch.350.00	Sqm	1.00	10.00	10.00		100.00
	Ch.370.000 to Ch.390.00	Sqm	1.00		2.05		41.00
	Ch.390.000 to Ch.570.00	Sqm	1.00		2.04		367.20
	Ch.590.000 to Ch.620.00	Sqm	1.00		2.20		66.00
<u> </u>	Ch.650.000 to Ch.660.00 Ch.700.000 to Ch.840.00	Sqm	1.00 1.00		1.13 3.24		11.34 453.60
	RHS	Sqiii	1.00	140.00	3.24		700.00
	Ch.30.000 to Ch.300.00	Sqm	1.00	270.00	4.55		1228.50
	Ch.340.000 to Ch.630.00	Sqm	1.00		2.14		620.60
	Ch.650.000 to Ch.660.00	Sqm	1.00		2.05		20.52
L	Ch.700.000 to Ch.845.00	Sqm	1.00	145.00	2.94		426.30

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	15a-Azizuddin Road						
	LHS						
	Ch.00.000 to Ch.90.00	Sqm	1.00	90.00	2.19		197.10
	Ch.100.000 to Ch.220.00	Sqm	1.00	120.00	2.15		258.00
	Ch.220.000 to Ch.300.00	Sqm	1.00	80.00	2.23		178.40
	Ch.310.000 to Ch.420.00	Sqm	1.00	110.00	1.69		185.90
	Ch.420.000 to Ch.490.00	Sqm	1.00	70.00	2.46		172.20
	Ch.490.000 to Ch.570.00 Ch.580.000 to Ch.640.00	Sqm	1.00	80.00 60.00	1.86		148.80
	Ch.650.000 to Ch.640.00	Sqm Sqm	1.00 1.00	60.00	1.83 1.60		109.80 96.00
	RHS	Sqiii	1.00	60.00	1.00		96.00
	Ch.00.000 to Ch.90.00	Sqm	1.00	90.00	1.82		163.80
	Ch.100.000 to Ch.220.00	Sqm	1.00	220.00	1.27		279.40
	Ch.220.000 to Ch.320.00	Sqm	1.00	100.00	1.67		167.00
	Ch.330.000 to Ch.410.00	Sqm	1.00	80.00	2.23		178.40
	Ch.420.000 to Ch.570.00	Sqm	1.00	150.00	2.24		336.00
	Ch.580.000 to Ch.710.00	Sqm	1.00	130.00	1.78		231.40
	15b-Jumma Masjid-Old Port Road						
	LHS						
	Ch.00.000 to Ch.90.00	Sqm	1.00	90.00	2.19		197.10
	Ch.100.000 to Ch.220.00	Sqm	1.00	120.00	2.15		258.00
	Ch.220.000 to Ch.300.00	Sqm	1.00	80.00	2.23		178.40
	Ch.310.000 to Ch.420.00	Sqm	1.00	110.00 70.00	1.69 2.46		185.90
	Ch.420.000 to Ch.490.00 Ch.490.000 to Ch.570.00	Sqm Sqm	1.00 1.00	80.00	1.86		172.20 148.80
	Ch.580.000 to Ch.640.00	Sqm	1.00	60.00	1.83		109.80
	Ch.650.000 to Ch.710.00	Sqm	1.00	60.00	1.60		96.00
	RHS	Oqiii	1.00	00.00	1.00		30.00
	Ch.00.000 to Ch.90.00	Sqm	1.00	90.00	1.82		163.80
	Ch.100.000 to Ch.220.00	Sqm	1.00	120.00	2.33		279.60
	Ch.220.000 to Ch.320.00	Sqm	1.00	100.00	1.67		167.00
	Ch.330.000 to Ch.410.00	Sqm	1.00	80.00	2.23		178.40
	Ch.420.000 to Ch.570.00	Sqm	1.00	150.00	2.24		336.00
	Ch.580.000 to Ch.710.00	Sqm	1.00	130.00	1.78		231.40
	20-Bendre Ferry Road						
	LHS						
	Ch.00.000 to Ch.80.00	Sqm	1.00	80.00	1.64		131.20
	Ch.80.000 to Ch.140.00 Ch.180.000 to Ch.220.00	Sqm	1.00	60.00	1.77		106.20
	Ch.230.000 to Ch.250.00	Sqm Sqm	1.00 1.00	40.00 20.00	2.35 3.40		94.00 68.00
	Ch.250.000 to Ch.250.00	Sqm	1.00	280.00	2.31		646.80
	RHS	Oqiii	1.00	200.00	2.01		040.00
	Ch.530.000 to Ch.580.00	Sqm	1.00	50.00	5.60		280.00
	Ch.705.000 to Ch.1040.00	Sqm	1.00	335.00	2.29		767.15
	Parking Area Road 7c						
	LHS						
	Ch.530.000 to Ch.590.000	Sqm	1	69.06	2.5		172.65
	RHS	, i					
	Ch.530.000 to Ch.590.000	Sqm	1	71.13	2.5		177.83
	Road 8						
	LHS						
	Ch.50.000 to Ch.80.000	Sqm	1	25.32	2		50.64
	RHS			24.00			
	Ch.50.000 to Ch.80.000	Sqm	1	24.92	2		49.84
	Road 19b						
	Ch.90.000 to Ch.250.000	Sqm	1	129.7	2.5		324.25
	Road 19a	Oqiii	'	120.7	2.0		024.20
	LHS						
	Ch.760.000 to Ch.830.000	Sqm	1	53.83	2.5		134.58
	RHS	·					
	Ch.760.000 to Ch.830.000	Sqm	1	24.1	2.5		60.2
	Pavment						
	7a-Milagres Cross Road			100 00			000
	Ch.6.000 to Ch.165.000 8-New Balmatta Road	Sqm	1.00	183.00	5.30		969.90
	IX-NIGH KAIMATTA PASA	i	1				ĺ
		Cam	1 00	E00 00	E 20		2074.00
	Ch.0.00 to 580.00 19a-Arya Samaj Road	Sqm	1.00	580.00	5.30		3074.00

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	15b-Jumma Masjid Road						
	Ch.720.0 to Ch.970.0	Sqm	1.00	300.00	4.60		1380.00
	20-Bendre Ferry Road Ch.0.00 to Ch.260.00	Sqm	1.00	260.00	4.60		1196.00
	19a-Balmatta Road	Sqiii	1.00	200.00	4.00		1190.00
	Ch.0.00 to Ch.320.00						
	RHS	Sqm	1	291	0.5		145.50
	LHS	Sqm	1	250	0.5		125.00
	20-Bendre Ferry Road RHS						
	Ch.0.000 to Ch.170.0	Sqm	1.0	170.0	1.0		170.00
	Ch.188.0 to Ch.218.0	Sqm	1.0		0.9		27.90
	Ch.220.0 to Ch.270.0	Sqm	1.0		2.0		100.00
	Ch.570.0 to Ch.705.0	Sqm	1.0	135.0	1.1		148.50
	Ch.770.0 to Ch.870.0	Sqm	1.0		1.3		127.00
	Ch.870.0 to Ch.925.0	Sqm	1.0		1.2		66.00
	Ch.930.0 to Ch.1070.0	Sqm	1.0		0.9		120.40
	LHS Ch.125.0 to Ch.145.0	Sqm	0.0 1.0		0.0 0.6		0.00 11.20
	Ch.180.0 to Ch.200.00	Sqm	1.0		0.8		9.00
	Ch.260.0 to Ch.470.0	Sqm	1.0		1.4		289.80
	Ch.530.0 to Ch.545.0	Sqm	1.0		1.3		19.05
	Ch.590.0 to Ch.750.0	Sqm	1.0	160.0	0.8		131.20
	Ch.780.0 to Ch.905.0	Sqm	1.0		1.6		201.25
	Ch.915.0 to Ch.942.0	Sqm	1.0		1.9		51.57
	Ch.950.0 to Ch.1100.0	Sqm	1.0	150.0	1.6		244.50
	Road 7C LHS						
	Ch.0.00 to Ch.45.0	Sqm	1	45	0.7		31.50
	Ch.80.0 to Ch. 205.0	Sqm	1	125	0.068		8.50
	Ch.280.0 to Ch.300.0	Sqm	1	20	0.22		4.40
	Ch.305.0 to Ch.335.0	Sqm	1	30	0.84		25.20
	Ch.410.0	Sqm	1	5	1.2		6.00
	Ch.500.0 to Ch.660.0	Sqm	1	160	0.68		108.80
	Ch.680.0 to Ch.745.0	Sqm	1	65	0.26 0.74		16.90
	Ch.835.0 to Ch.880.0 Ch.910.0 to Ch.930.0	Sqm Sqm	1	45 20	0.74		33.30 1.40
	Ch.940.0 to Ch.950.0	Sqm	1	10	0.68		6.80
	Ch.960.0	Sqm	1	5	0.31		1.55
	RHS						
	Ch.215.0 to Ch.230.0	Sqm	1		0.24		3.60
	Ch.350.0 to Ch.355.0	Sqm	1		0.75		3.75
	Ch.385.0 to Ch.430.0	Sqm	1	45	0.1		4.50
	Ch.460.0 to Ch.480.0 Ch.765.0 to Ch.820.0	Sqm Sqm	1	20 55	0.35 0.35		7.00 19.25
	Ch.980.0 to Ch.1004.0	Sqm	1	24	0.33		10.08
	Road 15a	Oqiii	'	2-1	0.42		10.00
	LHS						
	Ch.80.0 to Ch.90.0	Sqm	1	10	0.15		1.50
	Ch.95.0 to Ch.110.0	Sqm	1	15	0.13		1.95
	Ch.180.0 to Ch.210.0	Sqm	1	30	0.23		6.90
	Ch.280.0 to Ch.300.0 Ch.350.0 to Ch.375.0	Sqm Sqm	1	20 25	0.13 0.34		2.60 8.50
	Ch.410.0	Sqm	1	5	0.54		2.65
	Ch.420.0	Sqm	1	5	2.24		11.20
	Ch.570.0	Sqm	1		0.62		3.10
	RHS						
	Ch.45.0 to Ch.75.0	Sqm	1	30	0.34		10.20
	Ch.395.0 to ch.410.0	Sqm	1	15	0.61		9.15
	Ch.485.0 to Ch.510.0	Sqm	1	25	0.46		11.50
	Ch.545.0 to Ch.570.0 Ch.630.0 to Ch.640.0	Sqm Sqm	1	25 10	0.36 0.24		9.00
	On.000.0 to On.040.0	Sym	1	10	0.24		2.40
	Consider Panel Repairing for Existing CC Road @ 5%						+
	7c-Attavar -Nandigudda Road	Sqm	0.05	1021.00	7.00		357.35
	10-Kudumbi Garden (DBS) Road	Sqm	0.05	375.00	6.20		116.25
	Balmatta Road	Sqm	0.05		15.00		247.50
	15b-Jumma Masjid Road	Sqm	0.20		5.50		770.00
	20-Bendre Ferry Road	Sqm	0.20		10.00		1600.00
<u> </u>		Sqm		Total Qty.	I		37458.12

Sr. No.	Description	Unit	No's	L	В	н	Qty.
14	KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (SI.No. 4.6 of KPWD 18-19)						
	SWD						
	Road 7a Node-CO-504			Sides	2.00		
	Base Node-CO-505	Cum	1	26.4	1.2	0.10	3.17
	Base	Cum	1	137.5	1.2	0.10	16.50
	Road 7c			Sides	2.00		
1	Node-CO-64 Base	Cum	2	127.7	1.4	0.10	35.76
2	Node-CO-65						
3	Base Node-CO-66	Cum	2		1.4	0.10	35.17
4	Base Node-CO-67	Cum	2	67.9	1.4	0.10	19.01
	Base	Cum	2	34.8	1.4	0.10	9.74
5	Node-CO-68 Base	Cum	2	29.4	1.2	0.10	7.06
6	Node-CO-69 Base	Cum	2	39.8	1.2	0.10	9.55
7	Node-CO-70						
8	Base Node-CO-80	Cum	2	36.5	1.1	0.10	8.03
9	Base Node-CO-81	Cum	2	73.8	1.2	0.10	17.71
	Base	Cum	2	40.5	1.2	0.10	9.72
10	Node-CO-82 Base	Cum	2	31.7	1.2	0.10	7.61
11	Node-CO-78						
12	Base Node-CO-77	Cum	2		1.2	0.10	5.35
13	Base Node-CO-79	Cum	2	23.6	1.2	0.10	5.66
	Base	Cum	2	33.6	1.1	0.10	7.39
	Road 8			Sides	1.00		
1	Node-CO-35 Base	Cum	1		1.2	0.10	9.07
2	Node-CO-36						
3	Base Node-CO-37	Cum	1	33.5	1.1	0.10	3.69
	Base	Cum	1	31	1.1	0.10	3.41
4	Node-CO-38 Base	Cum	1	48.9	1.1	0.10	5.38
5	Node-CO-39 Base	Cum	1	99.9	1.2	0.10	11.99
6	Node-CO-40						
7	Base Node-CO-41	Cum	1	95.4	1.4	0.10	13.36
8	Base Node-CO-42	Cum	1	28	1.2	0.10	3.36
	Base	Cum	1	46.1	1.2	0.10	5.53
9	Node-CO-43 Base	Cum	1	17	1.2	0.10	2.04
10	Node-CO-44	Cum	1		1.2	0.10	
11	Base Node-CO-45						4.16
12	Base Node-CO-46	Cum	1	34.8	1.1	0.10	3.83
	Base	Cum	1	9.3	1.8	0.10	1.67
13	Node-CO-47 Base	Cum	1	14.2	1.8	0.10	2.56
	Road 19	-	-	Sides	2.00		
1	Node-CO-163			01000	2.00		

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Base	Cum	2	24.3	1.2	0.10	5.83
2	Node-CO-164 Base	Cum	2	29.9	1.2	0.10	7.18
3	Node-CO-165						
4	Base Node-CO-166	Cum	2	43.4	1.2	0.10	10.42
	Base	Cum	2	20.9	1.2	0.10	5.02
5	Node-CO-167 Base	Cum	2	33.5	1.2	0.10	8.04
6	Node-CO-168						0.04
7	Base Node-CO-169	Cum	2	47.3	1.1	0.10	10.41
	Base	Cum	2	68.4	1.2	0.10	16.42
8	Node-CO-170 Base	Cum	2	120.2	1.2	0.10	28.85
9	Node-CO-171						
10	Base Node-CO-172	Cum	2	70.8	1.2	0.10	16.99
10	Base	Cum	2	103.2	1.2	0.10	24.77
	Road-15a			Sides	1.00		
1	Node-CO-182						
2	Base Node-CO-192	Cum	1	27.2	1.2	0.10	3.26
	Base	Cum	1	59.8	1.2	0.10	7.18
3	Node-CO-481 Base	Cum	1	28.1	1.2	0.10	3.37
4	Node-CO-482						
5	Base Node-CO-190	Cum	1	58.7	1.2	0.10	7.04
	Base	Cum	1	62.8	1.2	0.10	7.54
6	Node-CO-184 Base	Cum	1	151.1	1.2	0.10	18.13
7	Node-CO-195						
8	Base Node-CO-187	Cum	1	170	1.2	0.10	20.40
	Base	Cum	1	80.5	1.2	0.10	9.66
9	Node-CO-188 Base	Cum	1	43.1	1.2	0.10	5.17
10	Node-CO-189						
11	Base Node-CO-483	Cum	1	97.4	1.2	0.10	11.69
	Base	Cum	1	64.4	1.4	0.10	9.02
12	Node-CO-484 Base	Cum	1	120.6	1.2	0.10	14.47
13	Node-CO-485						
14	Base Node-CO-486	Cum	1	30.5	1.2	0.10	3.66
	Base	Cum	1	169.2	1.2	0.10	20.30
	15a-New Drain			1			
1	MH-524	0:	,		4.4	0.40	0.05
	Base	Cum	1	27.7	1.1	0.10	3.05
2	MH-525	0:		50.1		0.40	5.04
	Base	Cum	1	59.4	1	0.10	5.94
3	MH-527	C	,	20.0	4.4	0.40	0.04
	Base	Cum	1	62.8	1.1	0.10	6.91
4	MH-528	C		400 =	4.4	0.40	10.00
	Base	Cum	1	120.5	1.1	0.10	13.26
5	MH-529	C	,	00.7	4.4	0.40	0.07
	Base	Cum	1	29.7	1.1	0.10	3.27
6	MH-530	C		470.0	4.4	0.40	40.70
	Base	Cum	1	170.8	1.1	0.10	18.79
7	MH-532	0		20 -		0.10	0.05
	Base	Cum	1	80.5	1	0.10	8.05
8	MH-533	0		40.4	4.4	0.10	4.74
	Base	Cum	1	43.1	1.1	0.10	4.74

Sr. No.	Description	Unit	No's	L	В	н	Qty.
9	MH-534						
	Base	Cum	1	97.4	1	0.10	9.74
	Road 15b			Sides	1.00		
1	Node-CO-467					2.40	
2	Base Node-CO-469	Cum	1	79.8	1.1	0.10	8.78
	Base	Cum	1	23.8	1.1	0.10	2.62
3	Node-CO-470 Base	Cum	1	62.6	1.1	0.10	6.89
4	Node-CO-473						
5	Base Node-CO-474	Cum	1	30.4	1.1	0.10	3.34
	Base	Cum	1	62	1.1	0.10	6.82
6	Node-CO-472 Base	Cum	1	32	1.2	0.10	3.84
7	Node-CO-468						
8	Base Node-CO-495	Cum	1	28.4	1.1	0.10	3.12
	Base	Cum	1	88.4	1.1	0.10	9.72
9	Node-CO-496 Base	Cum	1	76.4	1.1	0.10	8.40
10	Node-CO-499						
11	Base Node-CO-497	Cum	1	4.2	1.1	0.10	0.46
	Base	Cum	1	87.6	1.1	0.10	9.64
12	Node-CO-498 Base	Cum	1	75.9	1.1	0.10	8.35
13	Node-CO-494						
14	Base Node-CO-503	Cum	1	77.3	1.1	0.10	8.50
	Base	Cum	1	76.6	1.1	0.10	8.43
15	Node-CO-501 Base	Cum	1	32.5	1.1	0.10	3.58
16	Node-CO-502		'				
17	Base Node-CO-492	Cum	1	56.2	1.1	0.10	6.18
	Base	Cum	1	30.9	1.1	0.10	3.40
18	Node-CO-493 Base	Cum	1	56.5	1.1	0.10	6.22
19	Node-CO-500		'				
20	Base Node-CO-491	Cum	1	32.4	1.1	0.10	3.56
20	Base	Cum	1	32	1.1	0.10	3.52
21	Node-CO-490 Base	Cum	1	24.8	1.1	0.10	2.73
22	Node-CO-488	Cuiii	'		1.1	0.10	2.73
23	Base Node-CO-489	Cum	1	39	1.1	0.10	4.29
	Base	Cum	1	44.3	1.1	0.10	4.87
24	Node-CO-487 Base	Cum	1	23.2	1.1	0.10	2.55
25	Node-CO-221						
	Base	Cum	1	101.3	1.1	0.10	11.14
	Road 20			Sides	2.00		
1	Node-CO-455 Base	Cum	2	87	1.2	0.10	20.88
2	Node-CO-456						
3	Base Node-CO-457	Cum	2	95.8	1.2	0.10	22.99
	Base	Cum	2	82.7	1.2	0.10	19.85
4	Node-CO-458 Base	Cum	2	105.2	1.2	0.10	25.25
5	Node-CO-459						
6	Base	Cum	2	62.5	1.2	0.10	15.00
6	Node-CO-460 Base	Cum	2	48.1	1.2	0.10	11.54
7	Node-CO-461	Cure			4.0	0.40	11 17
8	Base Node-CO-462	Cum	2	47.8	1.2	0.10	11.47
	Base	Cum	2	18.3	1.2	0.10	4.39
9	Node-CO-463	<u> </u>					

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Base	Cum	2	19.9	1.2	0.10	4.78
10	Node-CO-464 Base	Cum	2	15.8	1.2	0.10	3.79
11	Node-CO-479					0.10	
12	Base Node-CO-480	Cum	2	244.3	1.2	0.10	58.63
12	Base	Cum	2	170.7	1.2	0.10	40.97
13	Node-CO-477 Base	Cum	2	74.2	1.2	0.10	17.81
14	Node-CO-348	Cum	2	74.2	1.2	0.10	17.01
15	Base Node-CO-349	Cum	2	15.4	1.2	0.10	3.70
10	Base	Cum	2	75.2	1.2	0.10	18.05
	PCC Below Kerb Stone	Cum	1	8268.00	0.47	0.10	384.46
	PCC Below Water Table	Cum	1.00	8268.00	0.50	0.10	413.40
	Box Culvert						
	7a						
	Box Culvert-Slab	Cum	2.0	11.2	1.0	0.1	2.24
	7c Box Culvert-Slab	Cum	8.0	16.7	1.0	0.1	13.36
	8 Box Culvert-Slab	Cum	4.0	12.5	1.5	0.4	7.50
	10	Cum	4.0	12.5	1.5	0.1	0.50
	Box Culvert-Slab	Cum	4.0	12.5	1.5	0.1	7.50
	19a Box Culvert-Slab	Cum	4.0	10.6	1.5	0.1	6.36
	19b	0	4.0	00.4	4.5	0.4	45.00
	Box Culvert-Slab 15a	Cum	4.0	26.1	1.5	0.1	15.66
	Box Culvert-Slab	Cum	6.0	11.3	1.5	0.1	10.17
	15b Box Culvert-Slab	Cum	8.0	6.8	1.5	0.1	8.10
	20			40.0			
	Box Culvert-Slab	Cum	8.0	13.0	1.5	0.1	15.54
	Electrical Chamber	Cum	391.00	2.90	2.00	0.10	226.78 2147.14
L		Cum		Total Qty.			417/117
15	KSRRB 400 Granular Sub-Base with Coarse Graded Material (table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19)	Cum		Total Qty.			21777.17
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement	Cum		Total Qty.			2147.114
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19)	Cum	1.00	183.00	5.30	0.15	145.49
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement 7a-Milagres Cross Road Ch.6.000 to Ch.165.000 8-New Balmatta Road	Cum	1.00	183.00			145.49
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement 7a-Milagres Cross Road Ch.6.000 to Ch.165.000				5.30	0.15	
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement 7a-Milagres Cross Road Ch.6.000 to Ch.165.000 8-New Balmatta Road Ch.0.00 to 580.00 19a-Arya Samaj Road Ch.0.00 to 330.00	Cum	1.00	183.00			145.49
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement 7a-Milagres Cross Road Ch.6.000 to Ch.165.000 8-New Balmatta Road Ch.0.00 to 580.00 19a-Arya Samaj Road	Cum	1.00	183.00	5.30	0.15	145.49 461.10
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement 7a-Milagres Cross Road Ch.6.000 to Ch.165.000 8-New Balmatta Road Ch.0.00 to 580.00 19a-Arya Samaj Road Ch.0.00 to 330.00 15b-Jumma Masjid Road Ch.720.0 to Ch.970.0 20-Bendre Ferry Road	Cum Cum Cum	1.00 1.00 1.00	183.00 580.00 595.00 300.00	5.30 5.30 4.60	0.15 0.15	145.49 461.10 473.03 207.00
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement 7a-Milagres Cross Road Ch.6.000 to Ch.165.000 8-New Balmatta Road Ch.0.00 to 580.00 19a-Arya Samaj Road Ch.0.00 to 330.00 15b-Jumma Masjid Road Ch.720.0 to Ch.970.0	Cum Cum	1.00	183.00 580.00 595.00	5.30	0.15	145.49 461.10 473.03
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement 7a-Milagres Cross Road Ch.6.000 to Ch.165.000 8-New Balmatta Road Ch.0.00 to 580.00 19a-Arya Samaj Road Ch.0.00 to 330.00 15b-Jumma Masjid Road Ch.720.0 to Ch.970.0 20-Bendre Ferry Road Ch.0.00 to Ch.260.00 19a-Balmatta Road Ch.0.00 to Ch.320.00	Cum Cum Cum Cum	1.00 1.00 1.00 1.00	183.00 580.00 595.00 300.00 260.00	5.30 5.30 4.60 4.60	0.15 0.15 0.15 0.15	145.49 461.10 473.03 207.00 179.40
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement 7a-Milagres Cross Road Ch.6.000 to Ch.165.000 8-New Balmatta Road Ch.0.00 to 330.00 15b-Jumma Masjid Road Ch.720.0 to Ch.970.0 20-Bendre Ferry Road Ch.0.00 to Ch.260.00 19a-Balmatta Road Ch.0.00 to Ch.320.00 RHS LHS	Cum Cum Cum	1.00 1.00 1.00	183.00 580.00 595.00 300.00	5.30 5.30 4.60	0.15 0.15	145.49 461.10 473.03 207.00
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement 7a-Milagres Cross Road Ch.6.000 to Ch.165.000 8-New Balmatta Road Ch.0.00 to 580.00 19a-Arya Samaj Road Ch.0.00 to 330.00 15b-Jumma Masjid Road Ch.720.0 to Ch.970.0 20-Bendre Ferry Road Ch.0.00 to Ch.320.00 RHS LHS 20-Bendre Ferry Road	Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00	183.00 580.00 595.00 300.00 260.00	5.30 5.30 4.60 4.60	0.15 0.15 0.15 0.15	145.49 461.10 473.03 207.00 179.40
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement 7a-Milagres Cross Road Ch.6.000 to Ch.165.000 8-New Balmatta Road Ch.0.00 to 580.00 19a-Arya Samaj Road Ch.0.00 to 330.00 15b-Jumma Masjid Road Ch.720.0 to Ch.970.0 20-Bendre Ferry Road Ch.0.00 to Ch.260.00 19a-Balmatta Road Ch.0.00 to Ch.320.00 RHS LHS 20-Bendre Ferry Road RHS Ch.0.000 to Ch.170.0	Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00	183.00 580.00 595.00 300.00 260.00	5.30 5.30 4.60 4.60 0.5 0.5	0.15 0.15 0.15 0.15	145.49 461.10 473.03 207.00 179.40 21.83 18.75
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement 7a-Milagres Cross Road Ch.6.000 to Ch.165.000 8-New Balmatta Road Ch.0.00 to 580.00 19a-Arya Samaj Road Ch.0.00 to 330.00 15b-Jumma Masjid Road Ch.720.0 to Ch.970.0 20-Bendre Ferry Road Ch.0.00 to Ch.260.00 19a-Balmatta Road Ch.0.00 to Ch.320.00 RHS LHS 20-Bendre Ferry Road RHS Ch.0.000 to Ch.170.0 Ch.188.0 to Ch.218.0	Cum Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00	183.00 580.00 595.00 300.00 260.00 291 250 170.0 30.0	5.30 5.30 4.60 4.60 0.5 0.5 0.5	0.15 0.15 0.15 0.15 0.15 0.15 0.15	145.49 461.10 473.03 207.00 179.40 21.83 18.75 25.50 4.19
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement 7a-Milagres Cross Road Ch.6.000 to Ch.165.000 8-New Balmatta Road Ch.0.00 to 580.00 19a-Arya Samaj Road Ch.0.00 to 330.00 15b-Jumma Masjid Road Ch.720.0 to Ch.970.0 20-Bendre Ferry Road Ch.0.00 to Ch.260.00 19a-Balmatta Road Ch.0.00 to Ch.320.00 RHS LHS 20-Bendre Ferry Road RHS Ch.0.000 to Ch.170.0	Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00	183.00 580.00 595.00 300.00 260.00 291 250	5.30 5.30 4.60 4.60 0.5 0.5	0.15 0.15 0.15 0.15 0.15 0.15	145.49 461.10 473.03 207.00 179.40 21.83 18.75
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement 7a-Milagres Cross Road Ch.6.000 to Ch.165.000 8-New Balmatta Road Ch.0.00 to 580.00 19a-Arya Samaj Road Ch.0.00 to 330.00 15b-Jumma Masjid Road Ch.720.0 to Ch.970.0 20-Bendre Ferry Road Ch.0.00 to Ch.260.00 19a-Balmatta Road Ch.0.00 to Ch.320.00 RHS LHS 20-Bendre Ferry Road RHS Ch.0.000 to Ch.170.0 Ch.188.0 to Ch.218.0 Ch.220.0 to Ch.270.0 Ch.570.0 to Ch.705.0 Ch.770.0 to Ch.870.0	Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.0 1.0 1.	183.00 580.00 595.00 300.00 260.00 291 250 170.0 30.0 50.0 135.0 100.0	5.30 5.30 4.60 4.60 0.5 0.5 0.5 0.9 2.0 1.1 1.3	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	145.49 461.10 473.03 207.00 179.40 21.83 18.75 25.50 4.19 15.00 22.28 19.05
15	(table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19) Pavement 7a-Milagres Cross Road Ch.6.000 to Ch.165.000 8-New Balmatta Road Ch.0.00 to 330.00 15b-Jumma Masjid Road Ch.720.0 to Ch.970.0 20-Bendre Ferry Road Ch.0.00 to Ch.260.00 19a-Balmatta Road Ch.0.00 to Ch.320.00 RHS LHS 20-Bendre Ferry Road RHS Ch.0.000 to Ch.218.0 Ch.220.0 to Ch.270.0 Ch.570.0 to Ch.270.0 Ch.570.0 to Ch.270.0	Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.0 1.0	183.00 580.00 595.00 300.00 260.00 291 250 170.0 30.0 50.0 135.0	5.30 5.30 4.60 4.60 0.5 0.5 0.5 0.9 2.0	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	145.49 461.10 473.03 207.00 179.40 21.83 18.75 25.50 4.19 15.00 22.28

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.125.0 to Ch.145.0	Cum	1.0		0.6	0.15	1.68
	Ch.180.0 to Ch.200.00	Cum	1.0		0.8	0.15	1.35
	Ch.260.0 to Ch.470.0 Ch.530.0 to Ch.545.0	Cum Cum	1.0 1.0		1.4 1.3	0.15 0.15	43.47 2.86
	Ch.590.0 to Ch.750.0	Cum	1.0		0.8	0.15	19.68
	Ch.780.0 to Ch.905.0	Cum	1.0		1.6	0.15	30.19
	Ch.915.0 to Ch.942.0	Cum	1.0		1.9	0.15	7.74
	Ch.950.0 to Ch.1100.0	Cum	1.0	150.0	1.6	0.15	36.68
	Road 7C						
	LHS Ch.0.00 to Ch.45.0	Cum	1	45	0.7	0.15	4.73
	Ch.80.0 to Ch. 205.0	Cum	1		0.068	0.15	1.28
	Ch.280.0 to Ch.300.0	Cum	1		0.22	0.15	0.66
	Ch.305.0 to Ch.335.0	Cum	1		0.84	0.15	3.78
	Ch.410.0	Cum	1	5	1.2	0.15	0.90
	Ch.500.0 to Ch.660.0	Cum	1		0.68	0.15	16.32
	Ch.680.0 to Ch.745.0	Cum	1		0.26	0.15	2.54
	Ch.835.0 to Ch.880.0 Ch.910.0 to Ch.930.0	Cum Cum	1		0.74 0.07	0.15 0.15	5.00 0.21
	Ch.940.0 to Ch.950.0	Cum	1		0.68	0.15	1.02
	Ch.960.0	Cum	1	5	0.31	0.15	0.23
	RHS		<u> </u>				
	Ch.215.0 to Ch.230.0	Cum	1	15	0.24	0.15	0.54
	Ch.350.0 to Ch.355.0	Cum	1	_	0.75	0.15	0.56
	Ch.385.0 to Ch.430.0	Cum	1		0.1	0.15	0.68
	Ch.460.0 to Ch.480.0 Ch.765.0 to Ch.820.0	Cum Cum	1		0.35 0.35	0.15 0.15	1.05 2.89
	Ch.980.0 to Ch.1004.0	Cum	1		0.33	0.15	1.51
	Road 15a	Cum		24	0.42	0.13	1.01
	LHS						
	Ch.80.0 to Ch.90.0	Cum	1		0.15	0.15	0.23
	Ch.95.0 to Ch.110.0	Cum	1		0.13	0.15	0.29
	Ch.180.0 to Ch.210.0	Cum	1		0.23	0.15	1.04
	Ch.280.0 to Ch.300.0	Cum	1		0.13	0.15	0.39
	Ch.350.0 to Ch.375.0 Ch.410.0	Cum Cum	1		0.34 0.53	0.15 0.15	1.28 0.40
	Ch.420.0	Cum	1		2.24	0.15	1.68
	Ch.570.0	Cum	1	5	0.62	0.15	0.47
	RHS			_		-	-
	Ch.45.0 to Ch.75.0	Cum	1	30	0.34	0.15	1.53
	Ch.395.0 to ch.410.0	Cum	1		0.61	0.15	1.37
	Ch.485.0 to Ch.510.0	Cum	1		0.46	0.15	1.73
	Ch.545.0 to Ch.570.0 Ch.630.0 to Ch.640.0	Cum Cum	1		0.36 0.24	0.15 0.15	1.35 0.36
	CI1.030.0 to CI1.040.0	Cuili	'	10	0.24	0.13	0.30
	Consider Panel Repairing for Existing CC Road @ 5%						
	7c-Attavar -Nandigudda Road	Cum	0.05	1021.00	7.00	0.15	53.60
	10-Kudumbi Garden (DBS) Road	Cum	0.05		6.20	0.15	17.44
	Balmatta Road	Cum	0.05			0.15	37.13
	15b-Jumma Masjid Road	Cum	0.20		5.50	0.15	115.50
	20-Bendre Ferry Road	Cum	0.20	800.00	10.00	0.15	240.00
	Parking Area						
	Road 7c						
	LHS						
	Ch.530.000 to Ch.590.000	Cum	1	69.06	2.50	0.15	25.90
	RHS						
	Ch.530.000 to Ch.590.000	Cum	1	71.13	2.50	0.15	26.67
	Road 8						
	Ch.50.000 to Ch.80.000	Cum	1	25.32	2.00	0.15	7.60
	RHS	Culli		20.02	2.00	0.13	7.00
	Ch.50.000 to Ch.80.000	Cum	1	24.92	2.00	0.15	7.48
	Road 19b						
	RHS						
	Ch.90.000 to Ch.250.000	Cum	1	129.7	2.50	0.15	48.64
	Road 19a						
	LHS	C	.4	F0.00	0.50	0.45	00.40
	Ch.760.000 to Ch.830.000 RHS	Cum	1	53.83	2.50	0.15	20.19
	Ch.760.000 to Ch.830.000	Cum	1	24.1	2.50	0.15	9.04
	2	Cum	<u> </u>	Total Qty.		0.10	2429.35
		İ					

KSRRB M400-81. Construction of granular sub-base by providing close granted crusted stores agregates of granted in trap / baset material, mixing in a mechalical mix plant at OMC. Carriago of moder frameatic work sites, spesseding in unform layers with moder of the provided of the pro	Sr. No.	Description	Unit	No's	L	В	н	Qty.
7-Milagres Cross Road	16	close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as						
RHS		Footpath						
Ch 10,000 to Ch 160,00 Cum 1,00 150,00 2,17 0,15 48,74								
LHS			Cum	1.00	150.00	2.17	0.15	48.74
Ch 10,000 to Ch 130,00 Ch 150,000 to Ch 140 to 0 Ch 140,000 to Ch 160 to Ch 16								
Ch.150.000 to Ch.410.00		-	0	4.00	100.00	0.00	0.45	50.04
Ch.420.000 to Ch.480.00 Ch.490.00 Cm 1.00 290.00 3.42 0.15 128.25 Ch.480.000 to Ch.720.00 Cm 1.00 290.00 1.36 0.15 73.13 Ch.680.000 to Ch.720.00 Cm 1.00 40.00 2.29 0.15 13.74 Ch.780.000 to Ch.850.00 Cm 1.00 40.00 2.29 0.15 13.74 Ch.780.000 to Ch.850.00 Cm 1.00 40.00 2.10 0.15 128.05 Ch.880.000 to Ch.850.00 Cm 1.00 40.00 2.10 0.15 128.05 Ch.880.000 to Ch.850.00 Cm 1.00 40.00 2.10 0.15 128.05 Ch.880.000 to Ch.190.00 Cm 1.00 40.00 2.10 0.15 128.05 Ch.880.000 to Ch.190.00 Cm 1.00 40.00 2.44 0.15 23.52 Ch.980.000 to Ch.190.00 Cm 1.00 44.00 2.43 0.15 16.04 Ch.780.00 Cm 1.00 44.00 2.43 0.15 16.04 Ch.780.00 Cm 1.00 120.00 3.02 0.15 16.04 Ch.780.00 Cm 1.00 120.00 3.00 0.15 94.50 Ch.780.00 Cm 1.00 120.00 3.00 0.15 94.50 Ch.780.000 to Ch.130.00 Cm 1.00 120.00 3.00 0.15 94.50 Ch.780.000 to Ch.730.00 Cm 1.00 70.00 5.21 0.15 54.71 Ch.440.00 to Ch.730.00 Cm 1.00 170.00 5.21 0.15 54.71 Ch.780.000 to Ch.730.00 Cm 1.00 120.00 3.59 0.15 64.62 Ch.740.000 to Ch.730.00 Cm 1.00 120.00 3.59 0.15 64.62 Ch.740.000 to Ch.950.00 Cm 1.00 120.00 3.59 0.15 34.98 Ch.780.000 to Ch.950.00 Cm 1.00 100.00 2.44 0.15 31.68 Ch.870.000 to Ch.950.00 Cm 1.00 44.00 5.30 0.15 34.98 Ch.780.000 to Ch.950.00 Cm 1.00 120.00 3.73 0.15 33.57 Ch.780.000 to Ch.950.00 Cm 1.00 120.00 3.73 0.15 33.57 Ch.780.000 to Ch.950.00 Cm 1.00 120.00 3.70 0.15 27.45 Ch.780.000 to Ch.950.00 Cm 1.00 120.00 3.70 0.15 27.45 Ch.780.000 to Ch.950.00 Cm 1.00 120.00 3.70 0.15 33.57 Ch.780.000 to Ch.950.00 Cm 1.00 10.00 0.15 15.32 Ch.780.000 to Ch.950.00 Cm 1.00 10.00 2.28 0.15 27.45 Ch.780.000 to Ch.950.00 Cm 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Ch.780.00 Cm								
Ch.480.000 to Ch.670.00								
Ch.680.000 to Ch.720.00 Ch.720.000 to Ch.890.00 Ch.720.000 to Ch.720.00 Ch.7200.000 to Ch.7200.00 Ch.7200.000 to Ch.7200.								
Ch.810,000 to Ch.850.00			Cum	1.00	40.00		0.15	
Ch.880,000 to Ch.950,00								
Ch.960.000 to Ch.1004.00								
RHS								
Ch.10.000 to Ch.130.00			Cum	1.00	44.00	2.43	0.15	16.04
Ch.140,000 to Ch.350,00		-	Cum	1.00	120.00	3.02	0.15	54 36
Ch.360,000 to Ch.430,00								
Ch.610,000 to Ch.730,00			Cum		70.00		0.15	
Ch.740.000 to Ch.840.00								
Ch.870.000 to Ch.950.00								
Ch.960.000 to Ch.1004.00								
S-New Balmatta Road								
LHS		G11.900.000 to G11.1004.00	Cuiii	1.00	44.00	3.30	0.13	34.30
Ch.30.000 to Ch.150.00								
Ch.520,000 to Ch.580,00			_					
RHS								
Ch.30.000 to Ch.80.00		i	Cuiii	1.00	00.00	3.73	0.13	33.31
Ch.90.000 to Ch.150.00			Cum	1.00	50.00	4.44	0.15	33.30
10-Kudumbi Garden (DBS)Road								
LHS		Ch.515.000 to Ch.560.00	Cum	1.00	45.00	2.67	0.15	18.02
LHS		10 Kudumbi Gardan (DBS)Baad						
Ch.10.000 to Ch.90.00								
Ch.90.000 to Ch.135.00			Cum	1.00	80.00	2.28	0.15	27.36
Ch.140.000 to Ch.340.00								
RHS		Ch.140.000 to Ch.250.00	Cum	1.00	110.00	1.51	0.15	24.92
Ch.10.000 to Ch.140.00			Cum	1.00	200.00	0.74	0.15	22.20
Ch.190.000 to Ch.210.00		-	0	4.00	400.00	0.55	0.45	40.70
Ch.220.000 to Ch.360.00								
19b-Balmatta Road								
LHS Ch.30.000 to Ch.300.00 Cum 1.00 270.00 4.43 0.15 179.42 19a LHS Ch.340.000 to Ch.350.00 Cum 1.00 10.00 10.00 0.15 15.00 Ch.370.000 to Ch.390.00 Cum 1.00 20.00 2.05 0.15 6.15 Ch.390.000 to Ch.570.00 Cum 1.00 180.00 2.04 0.15 55.08 Ch.590.000 to Ch.620.00 Cum 1.00 30.00 2.20 0.15 55.08 Ch.700.000 to Ch.840.00 Cum 1.00 140.00 3.24 0.15 68.04 RHS Ch.30.000 to Ch.300.00 Cum 1.00 270.00 4.55 0.15 184.28 Ch.340.000 to Ch.630.00 Cum 1.00 290.00 2.14 0.15 93.09 Ch.700.000 to Ch.845.00 Cum 1.00 145.00 2.94 0.15 63.95 15a-Azizuddin Road LHS Ch.00.000 to Ch.90.00 Cum 1.00 90.00 2.1						2.00	00	.0.00
Ch.30.000 to Ch.300.00 Cum 1.00 270.00 4.43 0.15 179.42 19a LHS Ch.340.000 to Ch.350.00 Cum 1.00 10.00 10.00 0.15 15.00 Ch.370.000 to Ch.390.00 Cum 1.00 20.00 2.05 0.15 6.15 Ch.390.000 to Ch.570.00 Cum 1.00 180.00 2.04 0.15 55.08 Ch.590.000 to Ch.620.00 Cum 1.00 30.00 2.20 0.15 9.90 Ch.700.000 to Ch.840.00 Cum 1.00 140.00 3.24 0.15 68.04 RHS Ch.340.000 to Ch.300.00 Cum 1.00 270.00 4.55 0.15 184.28 Ch.340.000 to Ch.630.00 Cum 1.00 290.00 2.14 0.15 93.09 Ch.700.000 to Ch.845.00 Cum 1.00 145.00 2.94 0.15 63.95 15a-Azizuddin Road LHS Ch.00.000 to Ch.90.00 Cum 1.00 90.00 2.19 0.								
19a	-	_	C	4 00	070.00	4.40	0.45	170.40
LHS Ch.340.000 to Ch.350.00 Cum 1.00 10.00 10.00 0.15 15.00 Ch.370.000 to Ch.390.00 Cum 1.00 20.00 2.05 0.15 6.15 Ch.390.000 to Ch.570.00 Cum 1.00 180.00 2.04 0.15 55.08 Ch.590.000 to Ch.620.00 Cum 1.00 30.00 2.20 0.15 9.90 Ch.700.000 to Ch.840.00 Cum 1.00 140.00 3.24 0.15 68.04 RHS Ch.340.000 to Ch.300.00 Cum 1.00 270.00 4.55 0.15 184.28 Ch.340.000 to Ch.630.00 Cum 1.00 290.00 2.14 0.15 93.09 Ch.700.000 to Ch.845.00 Cum 1.00 145.00 2.94 0.15 63.95 15a-Azizuddin Road LHS Ch.00.000 to Ch.90.00 Cum 1.00 90.00 2.19 0.15 29.57			Cum	1.00	270.00	4.43	0.15	179.42
Ch.340.000 to Ch.350.00 Cum 1.00 10.00 0.15 15.00 Ch.370.000 to Ch.390.00 Cum 1.00 20.00 2.05 0.15 6.15 Ch.390.000 to Ch.570.00 Cum 1.00 180.00 2.04 0.15 55.08 Ch.590.000 to Ch.620.00 Cum 1.00 30.00 2.20 0.15 9.90 Ch.700.000 to Ch.840.00 Cum 1.00 140.00 3.24 0.15 68.04 RHS Ch.30.000 to Ch.300.00 Cum 1.00 270.00 4.55 0.15 184.28 Ch.340.000 to Ch.630.00 Cum 1.00 290.00 2.14 0.15 93.09 Ch.700.000 to Ch.845.00 Cum 1.00 145.00 2.94 0.15 63.95 15a-Azizuddin Road LHS Ch.00.000 to Ch.90.00 Cum 1.00 90.00 2.19 0.15 29.57								
Ch.370.000 to Ch.390.00 Cum 1.00 20.00 2.05 0.15 6.15 Ch.390.000 to Ch.570.00 Cum 1.00 180.00 2.04 0.15 55.08 Ch.590.000 to Ch.620.00 Cum 1.00 30.00 2.20 0.15 9.90 Ch.700.000 to Ch.840.00 Cum 1.00 140.00 3.24 0.15 68.04 RHS Ch.340.000 to Ch.300.00 Cum 1.00 270.00 4.55 0.15 184.28 Ch.340.000 to Ch.630.00 Cum 1.00 290.00 2.14 0.15 93.09 Ch.700.000 to Ch.845.00 Cum 1.00 145.00 2.94 0.15 63.95 15a-Azizuddin Road LHS Ch.00.000 to Ch.90.00 Cum 1.00 90.00 2.19 0.15 29.57			Cum	1.00	10.00	10.00	0.15	15.00
Ch.590.000 to Ch.620.00 Cum 1.00 30.00 2.20 0.15 9.90 Ch.700.000 to Ch.840.00 Cum 1.00 140.00 3.24 0.15 68.04 RHS Ch.30.000 to Ch.300.00 Cum 1.00 270.00 4.55 0.15 184.28 Ch.340.000 to Ch.630.00 Cum 1.00 290.00 2.14 0.15 93.09 Ch.700.000 to Ch.845.00 Cum 1.00 145.00 2.94 0.15 63.95 15a-Azizuddin Road LHS Ch.00.000 to Ch.90.00 Cum 1.00 90.00 2.19 0.15 29.57		Ch.370.000 to Ch.390.00						6.15
Ch.700.000 to Ch.840.00 Cum 1.00 140.00 3.24 0.15 68.04 RHS Ch.30.000 to Ch.300.00 Cum 1.00 270.00 4.55 0.15 184.28 Ch.340.000 to Ch.630.00 Cum 1.00 290.00 2.14 0.15 93.09 Ch.700.000 to Ch.845.00 Cum 1.00 145.00 2.94 0.15 63.95 15a-Azizuddin Road LHS Ch.00.000 to Ch.90.00 Cum 1.00 90.00 2.19 0.15 29.57								
RHS Ch.30.000 to Ch.300.00 Cum 1.00 270.00 4.55 0.15 184.28 Ch.340.000 to Ch.630.00 Cum 1.00 290.00 2.14 0.15 93.09 Ch.700.000 to Ch.845.00 Cum 1.00 145.00 2.94 0.15 63.95 15a-Azizuddin Road LHS Ch.00.000 to Ch.90.00 Cum 1.00 90.00 2.19 0.15 29.57								
Ch.30.000 to Ch.300.00 Cum 1.00 270.00 4.55 0.15 184.28 Ch.340.000 to Ch.630.00 Cum 1.00 290.00 2.14 0.15 93.09 Ch.700.000 to Ch.845.00 Cum 1.00 145.00 2.94 0.15 63.95 15a-Azizuddin Road LHS Ch.00.000 to Ch.90.00 Cum 1.00 90.00 2.19 0.15 29.57			Cum	1.00	140.00	3.24	0.15	68.04
Ch.340.000 to Ch.630.00 Cum 1.00 290.00 2.14 0.15 93.09 Ch.700.000 to Ch.845.00 Cum 1.00 145.00 2.94 0.15 63.95 15a-Azizuddin Road LHS Ch.00.000 to Ch.90.00 Cum 1.00 90.00 2.19 0.15 29.57			Cum	1 00	270 00	455	0.15	184 29
Ch.700.000 to Ch.845.00 Cum 1.00 145.00 2.94 0.15 63.95 15a-Azizuddin Road LHS Ch.00.000 to Ch.90.00 Cum 1.00 90.00 2.19 0.15 29.57								
LHS Ch.00.000 to Ch.90.00 Cum 1.00 90.00 2.19 0.15 29.57								
LHS Ch.00.000 to Ch.90.00 Cum 1.00 90.00 2.19 0.15 29.57								
Ch.00.000 to Ch.90.00 Cum 1.00 90.00 2.19 0.15 29.57								
		-	Cum	1 00	90 00	2 19	0.15	29.57

Ch.220.000 to Ch.300.00 Ch.310.000 to Ch.420.00 Ch.420.000 to Ch.490.00 Ch.490.000 to Ch.570.00 Ch.580.000 to Ch.640.00 Ch.650.000 to Ch.710.00 RHS Ch.00.000 to Ch.90.00 Ch.100.000 to Ch.220.00 Ch.220.000 to Ch.320.00 Ch.330.000 to Ch.410.00 Ch.420.000 to Ch.570.00 Ch.580.000 to Ch.710.00	Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	90.00 220.00 100.00	2.23 1.69 2.46 1.86 1.83 1.60 1.82 1.27	0.15 0.15 0.15 0.15 0.15 0.15	26.76 27.89 25.83 22.32 16.47 14.40
Ch.420.000 to Ch.490.00 Ch.490.000 to Ch.570.00 Ch.580.000 to Ch.640.00 Ch.650.000 to Ch.710.00 RHS Ch.00.000 to Ch.90.00 Ch.100.000 to Ch.220.00 Ch.220.000 to Ch.320.00 Ch.330.000 to Ch.410.00 Ch.420.000 to Ch.570.00 Ch.580.000 to Ch.710.00	Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.00	70.00 80.00 60.00 60.00 90.00 220.00 100.00	2.46 1.86 1.83 1.60 1.82 1.27	0.15 0.15 0.15 0.15 0.15	25.83 22.32 16.47 14.40
Ch.490.000 to Ch.570.00 Ch.580.000 to Ch.640.00 Ch.650.000 to Ch.710.00 RHS Ch.00.000 to Ch.90.00 Ch.100.000 to Ch.220.00 Ch.220.000 to Ch.320.00 Ch.330.000 to Ch.410.00 Ch.420.000 to Ch.570.00 Ch.580.000 to Ch.710.00	Cum	1.00 1.00 1.00 1.00 1.00 1.00	80.00 60.00 60.00 90.00 220.00 100.00	1.86 1.83 1.60 1.82 1.27	0.15 0.15 0.15 0.15	22.32 16.47 14.40
Ch.580.000 to Ch.640.00 Ch.650.000 to Ch.710.00 RHS Ch.00.000 to Ch.90.00 Ch.100.000 to Ch.220.00 Ch.220.000 to Ch.320.00 Ch.330.000 to Ch.410.00 Ch.420.000 to Ch.570.00 Ch.580.000 to Ch.710.00	Cum Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00	90.00 220.00 100.00	1.83 1.60 1.82 1.27	0.15 0.15 0.15	16.47 14.40
Ch.650.000 to Ch.710.00 RHS Ch.00.000 to Ch.90.00 Ch.100.000 to Ch.220.00 Ch.220.000 to Ch.320.00 Ch.330.000 to Ch.410.00 Ch.420.000 to Ch.570.00 Ch.580.000 to Ch.710.00	Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00	90.00 220.00 100.00	1.60 1.82 1.27	0.15 0.15	14.40
RHS Ch.00.000 to Ch.90.00 Ch.100.000 to Ch.220.00 Ch.220.000 to Ch.320.00 Ch.330.000 to Ch.410.00 Ch.420.000 to Ch.570.00 Ch.580.000 to Ch.710.00	Cum Cum Cum Cum	1.00 1.00 1.00 1.00	90.00 220.00 100.00	1.82 1.27	0.15	
Ch.00.000 to Ch.90.00 Ch.100.000 to Ch.220.00 Ch.220.000 to Ch.320.00 Ch.330.000 to Ch.410.00 Ch.420.000 to Ch.570.00 Ch.580.000 to Ch.710.00	Cum Cum Cum	1.00 1.00 1.00	220.00 100.00	1.27		24.57
Ch.100.000 to Ch.220.00 Ch.220.000 to Ch.320.00 Ch.330.000 to Ch.410.00 Ch.420.000 to Ch.570.00 Ch.580.000 to Ch.710.00	Cum Cum Cum	1.00 1.00 1.00	220.00 100.00	1.27		24.57
Ch.220.000 to Ch.320.00 Ch.330.000 to Ch.410.00 Ch.420.000 to Ch.570.00 Ch.580.000 to Ch.710.00	Cum Cum Cum	1.00 1.00	100.00		0.45	
Ch.330.000 to Ch.410.00 Ch.420.000 to Ch.570.00 Ch.580.000 to Ch.710.00	Cum Cum	1.00			0.15 0.15	41.91 25.05
Ch.420.000 to Ch.570.00 Ch.580.000 to Ch.710.00	Cum		80.00	2.23	0.15	26.76
Ch.580.000 to Ch.710.00			150.00	2.24	0.15	50.40
	Cuiii	1.00	130.00	1.78	0.15	34.71
15b-Jumma Masjid-Old Port Road		1.00	130.00	1.70	0.13	34.71
LHS Ch.00.000 to Ch.90.00	Cum	1.00	90.00	2.19	0.15	29.57
Ch.100.000 to Ch.220.00	Cum	1.00		2.19	0.15	38.70
Ch.220.000 to Ch.320.00	Cum	1.00	80.00	2.13	0.15	26.76
Ch.310.000 to Ch.420.00	Cum	1.00	110.00	1.69	0.15	27.89
Ch.420.000 to Ch.490.00	Cum	1.00	70.00	2.46	0.15	25.83
Ch.490.000 to Ch.570.00	Cum	1.00		1.86	0.15	22.32
Ch.580.000 to Ch.640.00	Cum	1.00	60.00	1.83	0.15	16.47
Ch.650.000 to Ch.710.00	Cum	1.00	60.00	1.60	0.15	14.40
RHS						-
Ch.00.000 to Ch.90.00	Cum	1.00	90.00	1.82	0.15	24.57
Ch.100.000 to Ch.220.00	Cum	1.00	120.00	2.33	0.15	41.94
Ch.220.000 to Ch.320.00	Cum	1.00	100.00	1.67	0.15	25.05
Ch.330.000 to Ch.410.00	Cum	1.00	80.00	2.23	0.15	26.76
Ch.420.000 to Ch.570.00	Cum	1.00	150.00	2.24	0.15	50.40
Ch.580.000 to Ch.710.00	Cum	1.00	130.00	1.78	0.15	34.71
20-Bendre Ferry Road LHS						
Ch.00.000 to Ch.80.00	Cum	1.00	80.00	1.64	0.15	10.60
Ch.80.000 to Ch.140.00	Cum	1.00	60.00	1.04	0.15	19.68 15.93
Ch.180.000 to Ch.140.00 Ch.180.000 to Ch.220.00	Cum	1.00	40.00	2.35	0.15	14.10
Ch.230.000 to Ch.250.00	Cum	1.00	20.00	3.40	0.15	10.20
Ch.250.000 to Ch.530.00	Cum	1.00	280.00	2.31	0.15	97.02
RHS						01.102
Ch.530.000 to Ch.580.00	Cum	1.00	50.00	5.60	0.15	42.00
Ch.705.000 to Ch.1040.00	Cum	1.00	335.00	2.29	0.15	115.07
Box Culvert						
7a						
Box Culvert-Slab	Cum	2.0		1.0	0.15	3.36
7c		0.0		0.0		
Box Culvert-Slab	Cum	8.0		1.0	0.15	20.04
8		0.0		0.0		
Box Culvert-Slab	Cum	4.0		1.5	0.15	11.25
10		0.0		0.0		44.5-
Box Culvert-Slab	Cum	4.0		1.5	0.15	11.25
19a	0	0.0		0.0	2.15	0.54
Box Culvert-Slab	Cum	4.0		1.5	0.15	9.54
19b Box Culvert-Slab	Cum	0.0		0.0 1.5	0.45	22.40
Box Cuivert-Stab 15a	Cum	4.0 0.0		0.0	0.15	23.49
Box Culvert-Slab	Cum	6.0		1.5	0.15	15.26
15b	Guili	0.0		0.0	0.13	13.20
Box Culvert-Slab	Cum	8.0		1.5	0.15	12.15
20	Juili	0.0		0.0	0.10	12.10
Box Culvert-Slab	Cum	8.0		1.5	0.15	23.31
		0.0		0.0	55	
Electrical Chamber	Cum	391.0		2.0	0.15	340.17
	Cum		Total Qty.			3654.42
			-			

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
17	KSRB 4.2.1 : Providing and laying in position reiforcement cement concrete of design Mix M25 with OPC cement @340Kgs,with 20mm and down size graded granite metal coarse aggregate @ 0.47 cum with super plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 at machine mixed,concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls,return walls,walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of machinery,curing,complete but excluding cost of reinforcement as per specifications. (SI No : 4.10 of KPWD 18-19)						
	SWD						
	Road 7a			Sides	1.00		
	Node-CO-504 Base	Cum	1	26.4	1.1	0.10	2.90
	Wall	Cum	2	26.4	0.15	1.04	8.24
	Slab	Cum	1	26.4	0.9	0.20	4.75
	Node-CO-505 Base	Cum	1	137.5	1.1	0.10	15.13
	Wall	Cum	2	137.5	0.15	1.41	58.16
	Slab	Cum	1	137.5	0.9	0.20	24.75
				0.1			
1	Road 7c Node-CO-64			Sides	2.00		
	Base	Cum	2	127.7	1.4	0.10	35.76
	Wall	Cum	4	127.7	0.3	2.56	392.29
	Slab	Cum	2	127.7	1.2	0.15	45.97
2	Node-CO-65			405.0		0.40	05.45
	Base Wall	Cum Cum	2	125.6 125.6	1.4 0.3	0.10 2.59	35.17 390.36
	Slab	Cum	2	125.6	1.2	0.15	45.22
3	Node-CO-66						
	Base	Cum	2	67.9	1.4	0.10	19.01
	Wall	Cum	4	67.9	0.3	2.71	220.81
4	Slab Node-CO-67	Cum	2	67.9	1.2	0.15	24.44
	Base	Cum	2	34.8	1.3	0.10	9.05
	Wall	Cum	4	34.8	0.25	2.32	80.74
	Slab	Cum	2	34.8	1.1	0.15	11.48
5	Node-CO-68 Base	Cum	2	29.4	1.1	0.10	6.47
	Wall	Cum	4	29.4	0.15	1.36	23.99
	Slab	Cum	2	29.4	0.9	0.15	7.94
6	Node-CO-69						
	Base	Cum	2	39.8	1.1	0.10	8.76
	Wall Slab	Cum Cum	2	39.8 39.8	0.15 0.9	0.79 0.15	18.75 10.75
7	Node-CO-70	Oun		00.0	0.0	0.10	10.70
	Base	Cum	2	36.5	1.1	0.10	8.03
	Wall	Cum	4	36.5	0.15	0.63	13.69
8	Slab Node-CO-80	Cum	2	36.5	0.9	0.15	9.86
- 0	Base	Cum	2	73.8	1.1	0.10	16.24
	Wall	Cum	4	73.8	0.15	1.17	51.81
	Slab	Cum	2	73.8	0.9	0.15	19.93
9	Node-CO-81	Cum	2	40.5	1.1	0.40	0.04
	Base Wall	Cum Cum	2	40.5 40.5	1.1 0.15	0.10 1.17	8.91 28.43
	Slab	Cum	2	40.5	0.13	0.15	10.94
10	Node-CO-82						
	Base	Cum	2	31.7	1.1	0.10	6.97
	Wall Slab	Cum Cum	2	31.7 31.7	0.15 0.9	0.89 0.15	16.93 8.56
11	Node-CO-78	Guill		31.7	0.9	0.13	0.00
	Base	Cum	2	22.3	1.1	0.10	4.91
	Wall	Cum	4	22.3	0.15	1.41	18.80
1.5	Slab	Cum	2	22.3	0.9	0.15	6.02
12	Node-CO-77	Cur		22.0	4.0	0.40	F CC
	Base Wall	Cum Cum	2	23.6 23.6	1.2 0.2	0.10 1.91	5.66 35.97
	Slab	Cum	2	23.6	1	0.15	7.08
13	Node-CO-79						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Base	Cum	2	33.6	1.1	0.10	7.39
	Wall	Cum	4	33.6	0.15	0.86	17.24
	Slab	Cum	2	33.6	0.9	0.15	9.07
	Road 8			Sides	1.00		
1	Node-CO-35						
	Base	Cum	1	75.6	1.1	0.10	8.32
	Wall	Cum	2	75.6	0.15	1.42	32.21
2	Slab Node-CO-36	Cum	1	75.6	0.9	0.20	13.61
	Base	Cum	1	33.5	1.1	0.10	3.69
	Wall	Cum	2	33.5	0.15	0.64	6.38
	Slab	Cum	1	33.5	0.9	0.20	6.03
3	Node-CO-37			0.4	4.4	0.40	0.44
	Base Wall	Cum Cum	1 2	31 31	1.1 0.15	0.10 0.66	3.41 6.14
	Slab	Cum	1	31	0.13	0.20	5.58
4	Node-CO-38	9 4		0.	0.0	0.20	0.00
	Base	Cum	1	48.9	1.1	0.10	5.38
	Wall	Cum	2	48.9	0.15	0.64	9.39
5	Slab	Cum	1	48.9	0.9	0.20	8.80
5	Node-CO-39 Base	Cum	1	99.9	1.2	0.10	11.99
	Wall	Cum	2	99.9	0.2	1.58	63.14
	Slab	Cum	1	99.9	1	0.20	19.98
6	Node-CO-40						
	Base	Cum	1	95.4	1.3	0.10	12.40
	Wall Slab	Cum Cum	2 1	95.4 95.4	0.25 1.1	2.43 0.20	115.67 20.99
7	Node-CO-41	Cuiti		95.4	1.1	0.20	20.33
-	Base	Cum	1	28	1.2	0.10	3.36
	Wall	Cum	2	28	0.2	1.85	20.72
	Slab	Cum	1	28	1	0.20	5.60
8	Node-CO-42 Base	Cum	1	46.1	1.2	0.10	5.53
	Wall	Cum	2	46.1	0.2	1.95	35.96
	Slab	Cum	1	46.1	1	0.20	9.22
9	Node-CO-43						
	Base	Cum	1	17	1.2	0.10	2.04
	Wall Slab	Cum Cum	2	17 17	0.2	1.68 0.20	11.42 3.40
10	Node-CO-44	Cuili	ı	17	'	0.20	3.40
	Base	Cum	1	34.7	1.1	0.10	3.82
	Wall	Cum	2	34.7	0.15	1.25	12.96
	Slab	Cum	1	34.7	0.9	0.20	6.25
11	Node-CO-45 Base	Cum	1	34.8	1.1	0.10	3.83
	Wall	Cum	2		0.15	0.10	8.72
	Slab	Cum	1		0.9	0.20	6.26
12	Node-CO-46						
	Base	Cum	1		1.5	0.10	1.40
	Wall Slab	Cum Cum	2 1		0.35 1.3	3.40 0.20	22.10 2.42
13	Node-CO-47	Cuiii	ı	5.3	1.3	0.20	۷.٦٧
	Base	Cum	1	14.2	1.5	0.10	2.13
	Wall	Cum	2	14.2	0.35	3.40	33.80
	Slab	Cum	1	14.2	1.3	0.20	3.69
	Road 19			Sides	2.00		
1	Node-CO-163			Sides	∠.00		
	Base	Cum	2	24.3	1.1	0.10	5.35
	Wall	Cum	4		0.15	1.43	20.78
	Slab	Cum	2	24.3	0.9	0.20	8.75
2	Node-CO-164 Base	Cum	2	29.9	1.1	0.10	6.58
	Wall	Cum	2 4		0.15	1.24	22.25
	Slab	Cum	2	29.9	0.9	0.20	10.76
3	Node-CO-165						
	Base	Cum	2	43.4	1.1	0.10	9.55
	Wall	Cum	4	43.4	0.15	1.15	29.95
4	Slab Node-CO-166	Cum	2	43.4	0.9	0.20	15.62
4	Base	Cum	2	20.9	1.1	0.10	4.60
	Wall	Cum	4		0.15	1.12	14.04

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Slab	Cum	2	20.9	0.9	0.20	7.52
5	Node-CO-167						
	Base	Cum	2	33.5	1.1	0.10	7.37
	Wall Slab	Cum Cum	2		0.15 0.9	1.09 0.20	21.81 12.06
6	Node-CO-168	Culli		33.3	0.3	0.20	12.00
	Base	Cum	2	47.3	1.1	0.10	10.41
	Wall	Cum	4		0.15	0.91	25.83
	Slab	Cum	2	47.3	0.9	0.20	17.03
7	Node-CO-169 Base	Cum	2	68.4	1.1	0.10	15.05
	Wall	Cum	4		0.15	0.77	31.40
	Slab	Cum	2	68.4	0.9	0.20	24.62
8	Node-CO-170						
	Base	Cum	2		1.1	0.10	26.44
	Wall	Cum	4		0.15	0.77	55.53
9	Slab Node-CO-171	Cum	2	120.2	0.9	0.20	43.27
	Base	Cum	2	70.8	1.1	0.10	15.58
	Wall	Cum	4		0.15	0.74	31.44
	Slab	Cum	2		0.9	0.20	25.49
10	Node-CO-172						
	Base	Cum	2	103.2	1.1	0.10	22.70
	Wall Slab	Cum Cum	2		0.15 0.9	0.86 0.20	52.94 37.15
	Siab	Culli		103.2	0.9	0.20	37.13
	Road-15a			Sides	1.00		
1	Node-CO-182						
	Base	Cum	1	27.2	1.2	0.10	3.26
	Wall	Cum	2		0.2	1.62	17.57
	Slab	Cum	1	27.2	1	0.20	5.44
2	Node-CO-192 Base	Cum	1	59.8	1.1	0.10	6.58
	Wall	Cum	2		0.15	0.10	17.31
	Slab	Cum	1	59.8	0.9	0.20	10.76
3	Node-CO-481						
	Base	Cum	1		1.2	0.10	3.37
	Wall	Cum	2	28.1	0.2	1.62	18.21
4	Slab Node-CO-482	Cum	1	28.1	1	0.20	5.62
	Base	Cum	1	58.7	1.1	0.10	6.46
	Wall	Cum	2		0.15	0.97	17.08
	Slab	Cum	1		0.9	0.20	10.57
5	Node-CO-190			20.0		0.10	
	Base Wall	Cum	1		1.1	0.10 1.25	6.91 23.55
	Slab	Cum Cum	<u>2</u>		0.15 0.9	0.20	11.30
6	Node-CO-184	Cum	<u> </u>	02.0	0.0	0.20	11.00
	Base	Cum	1	151.1	1.1	0.10	16.62
	Wall	Cum	2		0.15	1.25	56.44
	Slab	Cum	1	151.1	0.9	0.20	27.20
7	Node-CO-195 Base	Cum	1	170	1.1	0.10	18.70
	Wall	Cum	2		0.15	1.28	65.28
	Slab	Cum	1		0.13	0.20	30.60
8	Node-CO-187						
	Base	Cum	1		1.1	0.10	8.86
	Wall	Cum	2		0.15	0.87	20.89
	Slab	Cum	1	80.5	0.9	0.20	14.49
9	Node-CO-188 Base	Cum	1	43.1	1.1	0.10	4.74
	Wall	Cum	2		0.15	1.18	15.19
	Slab	Cum	1		0.9	0.20	7.76
10	Node-CO-189						
	Base	Cum	1		1.1	0.10	10.71
	Wall	Cum	2		0.15	0.92	26.88
11	Slab Node-CO-483	Cum	1	97.4	0.9	0.20	17.53
- 11	Base	Cum	1	64.4	1.4	0.10	9.02
	Wall	Cum	2		0.3	2.89	111.67
	Slab	Cum	1		1.2	0.20	15.46
12	Node-CO-484 Base	Cum	1	120.6	1.2	0.10	14.47

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Slab	Cum	1	120.6	1	0.20	24.12
	Node-CO-485			22.5		0.40	
	Base	Cum	1	30.5	1.1	0.10	3.36
	Wall Slab	Cum Cum	1	30.5 30.5	0.15 0.9	0.72 0.20	6.54 5.49
14	Node-CO-486	Cuiii		30.3	0.3	0.20	3.43
	Base	Cum	1	169.2	1.1	0.10	18.61
	Wall	Cum	2		0.15	0.61	30.96
	Slab	Cum	1	169.2	0.9	0.20	30.46
	45- Nov. Ducin			1			
	15a-New Drain MH-524			1			
	Base	Cum	1	27.7	1.2	0.10	3.32
	Wall	Cum	2	27.7	0.2	1.62	17.89
	Slab	Cum	1	27.7	1	0.20	5.54
	MILEOF						
2	MH-525 Base	Cum	1	59.4	1.1	0.10	6.53
	Wall	Cum	2		0.15	0.10	17.20
	Slab	Cum	1	59.4	0.9	0.20	10.69
	MH-527						
	Base Wall	Cum	1	62.8	1.1	0.10	6.91
	Slab	Cum Cum	<u>2</u>	62.8 62.8	0.15 0.9	1.34 0.20	25.25 11.30
	Oldo	Julii	<u>'</u>	02.0	0.3	0.20	11.00
4	MH-528						
	Base	Cum	1		1.1	0.10	13.26
	Wall	Cum	2		0.15	1.26	45.37
	Slab	Cum	1	120.5	0.9	0.20	21.69
5	MH-529						
	Base	Cum	1	29.7	1.1	0.10	3.27
	Wall	Cum	2		0.15	1.28	11.40
	Slab	Cum	1	29.7	0.9	0.20	5.35
	MH-530 Base	Cum	1	170.8	1.1	0.10	18.79
	Wall	Cum	2		0.15	1.35	68.92
	Slab	Cum	1	170.8	0.9	0.20	30.74
7	MH-532						
	Base Wall	Cum Cum	1	80.5 80.5	1.1	0.10	8.86
	Slab	Cum	1	80.5	0.15 0.9	0.87 0.20	20.89 14.49
	Olab	Ouiii		00.0	0.0	0.20	14.43
8	MH-533						
	Base	Cum	1	43.1	1.1	0.10	4.74
	Wall	Cum	2		0.15	1.18	15.19
	Slab	Cum	1	43.1	0.9	0.20	7.76
9	MH-534						
	Base	Cum	1	97.4	1.1	0.10	10.71
	Wall	Cum	2	97.4	0.15	0.92	26.88
	Slab	Cum	1	97.4	0.9	0.20	17.53
	Dood 45h			Cidos	4.00		
	Road 15b Node-CO-467			Sides	1.00		
1	Base	Cum	1	79.8	1.1	0.10	8.78
	Wall	Cum	2		0.15	0.61	14.60
	Slab	Cum	1		0.9	0.20	14.36
	Node-CO-469						
	Base Wall	Cum Cum	1 2	23.8 23.8	1.1 0.15	0.10 0.99	2.62 7.07
	Slab	Cum	1	23.8	0.15	0.99	4.28
3	Node-CO-470	Juli	'	20.0	0.5	5.20	1.20
	Base	Cum	1		1.1	0.10	6.89
	Wall	Cum	2		0.15	0.66	12.39
	Slab	Cum	1	62.6	0.9	0.20	11.27
4	Node-CO-473	Cum	4	30.4	1.1	0.40	2 24
	Base Wall	Cum	1 2		0.15	0.10 0.92	3.34 8.39
		Cum	1	30.4	0.13	0.92	5.47
	Slab	Cum		30.41	0.91	0.201	J.+/

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Base	Cum	1	62	1.1	0.10	6.82
	Wall	Cum	2	62	0.15	1.07	19.81
	Slab	Cum	1	62	0.9	0.20	11.16
6	Node-CO-472 Base	Cum	1	32	1.1	0.10	3.52
	Wall	Cum	2	32	0.15	1.04	9.94
	Slab	Cum	1	32	0.9	0.20	5.76
7	Node-CO-468						
	Base	Cum	1	28.4	1.1	0.10	3.12
	Wall	Cum	2	28.4	0.15	1.12	9.54
	Slab	Cum	1	28.4	0.9	0.20	5.11
8	Node-CO-495 Base	Cum	1	88.4	1.1	0.10	9.72
	Wall	Cum	2	88.4	0.15	0.10	18.83
	Slab	Cum	1	88.4	0.9	0.20	15.91
9	Node-CO-496						
	Base	Cum	1	76.4	1.1	0.10	8.40
	Wall	Cum	2	76.4	0.15	0.98	22.35
40	Slab	Cum	1	76.4	0.9	0.20	13.75
10	Node-CO-499	Cum	1	4.2	1.1	0.10	0.46
	Base Wall	Cum	1 2	4.2	0.15	1.05	0.46 1.32
	Slab	Cum	1	4.2	0.13	0.20	0.76
11	Node-CO-497	2 3111			5.0	3.23	J y
	Base	Cum	1	87.6	1.1	0.10	9.64
	Wall	Cum	2	87.6	0.15	0.66	17.21
	Slab	Cum	1	87.6	0.9	0.20	15.77
12	Node-CO-498	Curr	4	75.0	4.4	0.10	0.05
	Base Wall	Cum Cum	1 2	75.9 75.9	1.1 0.15	0.10 0.83	8.35 18.90
	Slab	Cum	1	75.9	0.13	0.20	13.66
13	Node-CO-494				0.0	0.20	10.00
	Base	Cum	1	77.3	1.1	0.10	8.50
	Wall	Cum	2	77.3	0.15	0.61	14.15
	Slab	Cum	1	77.3	0.9	0.20	13.91
14	Node-CO-503	Curr	4	70.0	4.4	0.10	0.40
	Base Wall	Cum Cum	1 2	76.6 76.6	1.1 0.15	0.10 0.61	8.43 14.02
	Slab	Cum	1	76.6	0.13	0.20	13.79
15	Node-CO-501				0.0	0.20	10.70
	Base	Cum	1	32.5	1.1	0.10	3.58
	Wall	Cum	2	32.5	0.15	0.63	6.09
4.0	Slab	Cum	1	32.5	0.9	0.20	5.85
16	Node-CO-502	Curr	4	50.0	4.4	0.10	0.40
	Base Wall	Cum Cum	1 2	56.2 56.2	0.15	0.10 0.61	6.18 10.28
	Slab	Cum	1	56.2	0.13	0.20	10.28
17	Node-CO-492		·	00.2	0.0	0.20	
	Base	Cum	1	30.9	1.1	0.10	3.40
	Wall	Cum	2	30.9	0.15	0.61	5.65
1.5	Slab	Cum	1	30.9	0.9	0.20	5.56
18	Node-CO-493	C	4	E0 E	4.4	0.40	6.00
	Base Wall	Cum Cum	1 2	56.5 56.5	1.1 0.15	0.10 0.61	6.22 10.34
	Slab	Cum	1	56.5	0.13	0.20	10.34
19	Node-CO-500	2 3111		50.0	5.0	3.23	
	Base	Cum	1	32.4	1.1	0.10	3.56
	Wall	Cum	2	32.4	0.15	0.61	5.93
	Slab	Cum	1	32.4	0.9	0.20	5.83
20	Node-CO-491 Base	Cum	4	20	4.4	0.40	3.52
	Wall	Cum	1 2	32 32	1.1 0.15	0.10 0.61	5.86
	Slab	Cum	1	32	0.13	0.01	5.76
21	Node-CO-490	2 3	•		5.5	3.23	J J
	Base	Cum	1	24.8	1.1	0.10	2.73
	Wall	Cum	2	24.8	0.15	0.65	4.84
	Slab	Cum	1	24.8	0.9	0.20	4.46
22	Node-CO-488	0	4	20	4.4	0.40	4.00
	Base Wall	Cum Cum	1 2	39 39	1.1 0.15	0.10 0.62	4.29 7.25
	Slab	Cum	1	39	0.15	0.62	7.25
23	Node-CO-489	Jann		00	0.0	5.20	
	Base	Cum	1	44.3	1.1	0.10	4.87
	Wall	Cum	2	44.3	0.15	0.61	8.11

Sibb	Sr. No.	Description	Unit	No's	L	В	н	Qty.
Base			Cum	1	44.3	0.9	0.20	7.97
Wall Cum	24		C	4	22.0	4.4	0.40	0.55
Side								
Base								
Wall Cum	25							
Sibb Cum								
Road 20								
1 Node-CO-455		Oldb	Odili		101.5	0.0	0.20	10.20
Base					Sides	2.00		
Wall	1					4.0	0.45	24.00
Slab								
Node-CO-456 Cum								
Wall	2	Node-CO-456						
Slab								
Section Sect								
Base	3		Cuili		33.0	0.9	0.20	34.43
Slab			Cum	2		1.1	0.15	
Mode-CO-458 Cum 2 105.2 1.1 0.15 34.72								
Base			Cum	2	82.7	0.9	0.20	29.77
Wall	4		Cum	2	105.2	1 1	0.15	34 72
Slab								
Base		Slab						
Wall	5							
Slab								
Base								
Wall	6				5		0.20	
Slab		Base						
Tolerand								
Base	7		Cum		48.1	0.9	0.20	17.32
Wall			Cum	2	47.8	1.1	0.15	15.77
Base		Wall		4	47.8	0.15	1.23	35.13
Base			Cum	2	47.8	0.9	0.20	17.21
Wall			Cum	2	18.3	1 1	0.15	6.04
Slab Cum 2 18.3 0.9 0.20 6.59								
Base		Slab						
Wall Cum 4 19.9 0.15 1.28 15.28 Slab Cum 2 19.9 0.9 0.20 7.16 IO Node-C0-464 IO	9				40.0		0.45	
Slab								
10 Node-CO-464								
Wall	10						0.00	
Slab								
Node-CO-479 Base								
Base Cum 2 244.3 1.1 0.15 80.62	11		Cum	2	15.8	0.9	0.20	9.09
Wall Cum 4 244.3 0.15 0.92 134.12 Slab Cum 2 244.3 0.9 0.20 87.95 12 Node-CO-480 Sase Cum 2 170.7 1.1 0.15 56.33 Wall Cum 2 170.7 0.15 0.64 65.04 Slab Cum 2 170.7 0.9 0.20 61.45 13 Node-CO-477 Sase Cum 2 74.2 1.1 0.15 24.49 Wall Cum 2 74.2 0.15 0.64 28.27 Slab Cum 2 74.2 0.15 0.64 28.27 Slab Cum 2 74.2 0.9 0.20 26.71 14 Node-CO-348 Cum 2 15.4 1.2 0.15 5.54 Wall Cum 4 15.4 0.2 1.71 21.01 Slab Cum			Cum	2	244.3	1.1	0.15	80.62
Node-CO-480 Base Cum 2 170.7 1.1 0.15 56.33		Wall	Cum	4	244.3	0.15	0.92	134.12
Base Cum 2 170.7 1.1 0.15 56.33 Wall Cum 4 170.7 0.15 0.64 65.04 Slab Cum 2 170.7 0.9 0.20 61.45 13 Node-CO-477	10		Cum	2	244.3	0.9	0.20	87.95
Wall Cum 4 170.7 0.15 0.64 65.04 Slab Cum 2 170.7 0.9 0.20 61.45 13 Node-CO-477 Image: Com state of the common state	12		Cum	2	170.7	1 1	0.15	56 22
Slab Cum 2 170.7 0.9 0.20 61.45 13 Node-CO-477 — — — — Base Cum 2 74.2 1.1 0.15 24.49 Wall Cum 4 74.2 0.15 0.64 28.27 Slab Cum 2 74.2 0.9 0.20 26.71 14 Node-CO-348 — — — — Base Cum 2 15.4 1.2 0.15 5.54 Wall Cum 4 15.4 0.2 1.71 21.01 Slab Cum 2 75.2 1.2 0.15 27.07 Wall Cum 4 75.2 0.2 1.71 102.57 Slab Cum 2 75.2 1 0.20 30.08 Cum 2 75.2 1 0.20 30.08 Ded. Of Covers-0.6m x 0.45m Cum -869.00 0.6 0.45 0.20 -46.93								
13 Node-CO-477 Base Cum 2 74.2 1.1 0.15 24.49 Wall Cum 4 74.2 0.15 0.64 28.27 Slab Cum 2 74.2 0.9 0.20 26.71 14 Node-CO-348 Cum 2 15.4 1.2 0.15 5.54 Wall Cum 4 15.4 0.2 1.71 21.01 Slab Cum 2 15.4 1 0.20 6.16 15 Node-CO-349 Cum 2 75.2 1.2 0.15 27.07 Wall Cum 4 75.2 0.2 1.71 102.57 Slab Cum 2 75.2 1 0.20 30.08 Cum 2 75.2 1 0.20 30.08 Ded. Of Covers-0.6m x 0.45m Cum -869.00 0.6 0.45 0.20 -46.93								
Wall Cum 4 74.2 0.15 0.64 28.27 Slab Cum 2 74.2 0.9 0.20 26.71 14 Node-CO-348 Cum 2 15.4 1.2 0.15 5.54 Wall Cum 4 15.4 0.2 1.71 21.01 Slab Cum 2 15.4 1 0.20 6.16 15 Node-CO-349 Cum 2 75.2 1.2 0.15 27.07 Wall Cum 4 75.2 0.2 1.71 102.57 Slab Cum 2 75.2 1 0.20 30.08 Cum 2 75.2 1 0.20 30.08 Ded. Of Covers-0.6m x 0.45m Cum -869.00 0.6 0.45 0.20 -46.93	13	Node-CO-477						
Slab Cum 2 74.2 0.9 0.20 26.71 14 Node-CO-348 Cum 2 15.4 1.2 0.15 5.54 Base Cum 2 15.4 1.2 0.15 5.54 Wall Cum 4 15.4 0.2 1.71 21.01 Slab Cum 2 15.4 1 0.20 6.16 15 Node-CO-349 Cum 2 75.2 1.2 0.15 27.07 Wall Cum 4 75.2 0.2 1.71 102.57 Slab Cum 2 75.2 1 0.20 30.08 Cum 2 75.2 1 0.20 30.08 Ded. Of Covers-0.6m x 0.45m Cum -869.00 0.6 0.45 0.20 -46.93								
14 Node-CO-348 Cum 2 15.4 1.2 0.15 5.54 Wall Cum 4 15.4 0.2 1.71 21.01 Slab Cum 2 15.4 1 0.20 6.16 15 Node-CO-349 Cum 2 75.2 1.2 0.15 27.07 Wall Cum 4 75.2 0.2 1.71 102.57 Slab Cum 2 75.2 1 0.20 30.08 Ded. Of Covers-0.6m x 0.45m Cum -869.00 0.6 0.45 0.20 -46.93								
Base Cum 2 15.4 1.2 0.15 5.54 Wall Cum 4 15.4 0.2 1.71 21.01 Slab Cum 2 15.4 1 0.20 6.16 15 Node-CO-349 Cum 2 75.2 1.2 0.15 27.07 Wall Cum 4 75.2 0.2 1.71 102.57 Slab Cum 2 75.2 1 0.20 30.08 Cum Ded. Of Covers-0.6m x 0.45m Cum -869.00 0.6 0.45 0.20 -46.93	14		Odili		17.2	0.0	0.20	-0.71
Slab Cum 2 15.4 1 0.20 6.16 15 Node-CO-349		Base						
15 Node-CO-349 Cum 2 75.2 1.2 0.15 27.07 Wall Cum 4 75.2 0.2 1.71 102.57 Slab Cum 2 75.2 1 0.20 30.08 Ded. Of Covers-0.6m x 0.45m Cum -869.00 0.6 0.45 0.20 -46.93								
Base Cum 2 75.2 1.2 0.15 27.07 Wall Cum 4 75.2 0.2 1.71 102.57 Slab Cum 2 75.2 1 0.20 30.08 Ded. Of Covers-0.6m x 0.45m Cum -869.00 0.6 0.45 0.20 -46.93	15		Cum	2	15.4	1	0.20	ნ.16
Wall Cum 4 75.2 0.2 1.71 102.57 Slab Cum 2 75.2 1 0.20 30.08 Ded. Of Covers-0.6m x 0.45m Cum -869.00 0.6 0.45 0.20 -46.93	13		Cum	2	75.2	1.2	0.15	27.07
Slab Cum 2 75.2 1 0.20 30.08 Ded. Of Covers-0.6m x 0.45m Cum -869.00 0.6 0.45 0.20 -46.93					75.2			
Ded. Of Covers-0.6m x 0.45m Cum -869.00 0.6 0.45 0.20 -46.93		Slab	Cum	2			0.20	
		Dod Of Covers 0.6-5 v. 0.45-5	0	960.00	0.0	0.45	0.00	
		Box Culvert	Cum	-009.00	0.6	0.45	0.20	-46.93

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	7a Box Culvert-Slab	Cum	4	11.2	1.00	0.20	8.96
	Box Culvert-Wall	Cum	4		1.00	0.20	8.96
	7c						
	Box Culvert-Slab	Cum	16		1.00	0.20	53.44
	Box Culvert-Wall	Cum	16	16.7	1.00	0.20	53.44
	8 Box Culvert-Slab	Cum	8	12.5	1.50	0.20	30.00
	Box Culvert-Wall	Cum	8		1.50	0.20	30.00
	10		Ť			0.20	00.00
	Box Culvert-Slab	Cum	8		1.50	0.20	30.00
	Box Culvert-Wall	Cum	8	12.5	1.50	0.20	30.00
	19a			40.0	4.50	2.22	0= 11
	Box Culvert-Slab Box Culvert-Wall	Cum Cum	8		1.50 1.50	0.20 0.20	25.44 25.44
	19b	Cum	0	10.6	1.50	0.20	23.44
	Box Culvert-Slab	Cum	8	26.1	1.50	0.20	62.64
	Box Culvert-Wall	Cum	8		1.50	0.20	62.64
	15a						
	Box Culvert-Slab	Cum	12		1.50	0.20	40.68
	Box Culvert-Wall	Cum	12	11.3	1.50	0.20	40.68
	15b	Cum	10	0.75	1.50	0.20	0.00
	Box Culvert-Slab Box Culvert-Wall	Cum Cum	16 16		1.50 1.50	0.20 0.20	32.40 32.40
	20	Ouiii	10	0.73	1.50	0.20	0.00
	Box Culvert-Slab	Cum	16	12.95	1.50	0.20	62.16
	Box Culvert-Wall	Cum	16		1.50	0.20	62.16
	Footpath Edge Beam-PCC	Cum	1	1825.00	0.15	0.105	28.74
	Electrical Chamber		004	0.70	4.00	0.45	0.00
	Foundation Long Wall	Cum Cum	391 782	2.70 2.40	1.80 0.15	0.15 2.10	285.04 591.19
	Short Wall	Cum	782	1.10	0.15	2.10	270.96
	Onort vvaii	Cum	102	Total Qty.	0.10	2.10	8501.41
18	KSRB 4.6.1 Providing and removing centering, shuttering, strutting, propping etc.,and removal of formwork for foundations, footings, bases of columns for mass concrete including cost of all materials,labour complete as per specifications. Specification No. KSB 4.6.2 (SI No: 4.28 of KPWD 18-19)						
	SWD						
	Road 7a			Sides	2.00		
	Node-CO-504						
	Base	Sqm	2			0.1	5.28
	Wall	Sqm	4			1.04	109.82
	Slab	Sqm	2	26.4	0.9		47.52
	Node-CO-505	Sam	2	137.5		0.1	27.50
	Base Wall	Sqm Sqm	2			0.1 1.41	27.50 775.50
	Slab	Sqm	2		0.9	1	247.50
			_				
	Road 7c			Sides	2		
1							
	Node-CO-64						
	Base	Sqm	4			0.1	51.08
	Base Wall	Sqm	8	127.7	1.2	0.1 2.56	2615.30
2	Base Wall Slab			127.7	1.2		
2	Base Wall Slab Node-CO-65	Sqm Sqm	8 2	127.7 127.7	1.2	2.56	2615.30 306.48
2	Base Wall Slab	Sqm Sqm Sqm	8 2 4	127.7 127.7 125.6	1.2	2.56	2615.30 306.48 50.24
2	Base Wall Slab Node-CO-65 Base	Sqm Sqm	8 2	127.7 127.7 125.6 125.6	1.2	2.56	2615.30 306.48
2	Base Wall Slab Node-CO-65 Base Wall Slab Node-CO-66	Sqm Sqm Sqm Sqm Sqm	8 2 4 8	127.7 127.7 125.6 125.6 125.6		2.56	2615.30 306.48 50.24 2602.43 301.44
	Base Wall Slab Node-CO-65 Base Wall Slab Node-CO-66 Base	Sqm Sqm Sqm Sqm Sqm	4 8 2 4 8 2	127.7 127.7 125.6 125.6 125.6 67.9		2.56 0.1 2.59	2615.30 306.48 50.24 2602.43 301.44 27.16
	Base Wall Slab Node-CO-65 Base Wall Slab Node-CO-66 Base Wall	Sqm Sqm Sqm Sqm Sqm Sqm	4 8 2 4 8 2 4 8	127.7 127.7 125.6 125.6 125.6 67.9 67.9	1.2	0.1 2.59	2615.30 306.48 50.24 2602.43 301.44 27.16 1472.07
3	Base Wall Slab Node-CO-65 Base Wall Slab Node-CO-66 Base Wall Slab Node-CO-66 Base	Sqm Sqm Sqm Sqm Sqm	4 8 2 4 8 2	127.7 127.7 125.6 125.6 125.6 67.9 67.9		2.56 0.1 2.59	2615.30 306.48 50.24 2602.43 301.44 27.16
	Base Wall Slab Node-CO-65 Base Wall Slab Node-CO-66 Base Wall Slab Node-CO-67	Sqm Sqm Sqm Sqm Sqm Sqm Sqm	4 8 2 2 4 8 2 2	127.7 127.7 125.6 125.6 125.6 67.9 67.9	1.2	2.56 0.1 2.59 0.1 2.71	2615.30 306.48 50.24 2602.43 301.44 27.16 1472.07 162.96
3	Base Wall Slab Node-CO-65 Base Wall Slab Node-CO-66 Base Wall Slab Node-CO-67 Base	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	4 8 2 2 4 8 2 4 8 2	127.7 127.7 125.6 125.6 125.6 125.6 67.9 67.9 67.9	1.2	2.56 0.1 2.59 0.1 2.71	2615.30 306.48 50.24 2602.43 301.44 27.16 1472.07 162.96
3	Base Wall Slab Node-CO-65 Base Wall Slab Node-CO-66 Base Wall Slab Node-CO-67 Base Wall	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	4 8 2 2 4 8 2 4 8 2 2	127.7 127.7 125.6 125.6 125.6 125.6 67.9 67.9 67.9 34.8	1.2	2.56 0.1 2.59 0.1 2.71	2615.30 306.48 50.24 2602.43 301.44 27.16 1472.07 162.96 13.92 645.89
3	Base Wall Slab Node-CO-65 Base Wall Slab Node-CO-66 Base Wall Slab Node-CO-67 Base Wall Slab	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	4 8 2 2 4 8 2 4 8 2	127.7 127.7 125.6 125.6 125.6 125.6 67.9 67.9 67.9 34.8	1.2	2.56 0.1 2.59 0.1 2.71	2615.30 306.48 50.24 2602.43 301.44 27.16 1472.07 162.96
3	Base Wall Slab Node-CO-65 Base Wall Slab Node-CO-66 Base Wall Slab Node-CO-67 Base Wall	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	4 8 2 2 4 8 2 4 8 2 2	127.7 127.7 125.6 125.6 125.6 67.9 67.9 67.9 34.8 34.8	1.2	2.56 0.1 2.59 0.1 2.71	2615.30 306.48 50.24 2602.43 301.44 27.16 1472.07 162.96 13.92 645.89
3	Base Wall Slab Node-CO-65 Base Wall Slab Node-CO-66 Base Wall Slab Node-CO-67 Base Wall Slab Node-CO-67 Base Wall Slab Node-CO-68 Base Wall	Sqm	4 8 2 2 4 8 2 2 4 8 8 2 2	127.7 127.7 125.6 125.6 125.6 125.6 67.9 67.9 67.9 34.8 34.8 34.8	1.2	0.1 2.59 0.1 2.71 0.1 2.32	2615.30 306.48 50.24 2602.43 301.44 27.16 1472.07 162.96 13.92 645.89 76.56 11.76 319.87
3	Base Wall Slab Node-CO-65 Base Wall Slab Node-CO-66 Base Wall Slab Node-CO-67 Base Wall Slab Node-CO-67 Base Wall Slab Node-CO-68 Base	Sqm	4 8 2 2 4 8 2 4 8 2 2	127.7 127.7 125.6 125.6 125.6 125.6 67.9 67.9 67.9 34.8 34.8 34.8	1.2	2.56 0.1 2.59 0.1 2.71 0.1 2.32	2615.30 306.48 50.24 2602.43 301.44 27.16 1472.07 162.96 13.92 645.89 76.56

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Base	Sqm	4			0.1	15.92
	Wall	Sqm	8			0.785	249.94
7	Slab	Sqm	2	39.8	0.9		71.64
	Node-CO-70 Base	Sqm	4	36.5		0.1	14.60
	Wall	Sqm	8			0.625	182.50
	Slab	Sqm	2		0.9		65.70
	Node-CO-80						
	Base	Sqm	4	73.8		0.1	29.52
	Wall Slab	Sqm Sqm	8		0.9	1.17	690.77 132.84
	Node-CO-81	Sqiii		73.0	0.9		132.04
	Base	Sqm	4	40.5		0.1	16.20
	Wall	Sqm	8	40.5		1.17	379.08
	Slab	Sqm	2	40.5	0.9		72.90
	Node-CO-82	0	4	04.7		0.4	40.00
	Base Wall	Sqm Sqm	8	31.7 31.7		0.1 0.89	12.68 225.70
	Slab	Sqm	2		0.9	0.69	57.06
	Node-CO-78	Oqiii		01.7	0.0		07.00
	Base	Sqm	4			0.1	8.92
	Wall	Sqm	8			1.405	250.65
	Slab	Sqm	2	22.3	0.9		40.14
	Node-CO-77 Base	Sqm	4	23.6		0.4	9.44
	Wall	Sqm	8			0.1 1.905	9.44 359.66
	Slab	Sqm	2		1	1.303	47.20
	Node-CO-79		_	20.0			0
	Base	Sqm	4			0.1	13.44
	Wall	Sqm	8			0.855	229.82
ļ	Slab	Sqm	2	33.6	0.9		60.48
	Road 8			Sides	1		
	Node-CO-35			Sides	- 1		
	Base	Sqm	2	75.6		0.1	15.12
	Wall	Sqm	4	75.6		1.42	429.41
	Slab	Sqm	1	75.6	0.9		68.04
	Node-CO-36	0		00.5		0.4	
	Base Wall	Sqm Sqm	2			0.1 0.635	6.70 85.09
	Slab	Sqm	1		0.9	0.033	30.15
	Node-CO-37	- Oq		00.0	0.0		00.10
	Base	Sqm	2			0.1	6.20
	Wall	Sqm	4			0.66	81.84
	Slab	Sqm	1	31	0.9		27.90
	Node-CO-38 Base	Sqm	2	48.9		0.1	9.78
	Wall	Sqm	4			0.1	125.18
	Slab	Sqm	1	48.9	0.9	5.0-1	44.01
	Node-CO-39						
	Base	Sqm	2			0.1	19.98
	Wall	Sqm	4			1.58	631.37
	Slab Node-CO-40	Sqm	1	99.9	1		99.90
	Base	Sqm	2	95.4		0.1	19.08
	Wall	Sqm	4			2.425	925.38
	Slab	Sqm	1		1.1		104.94
	Node-CO-41						
	Base	Sqm	2			0.1	5.60
	Wall	Sqm	4			1.85	207.20
	Slab Node-CO-42	Sqm	1	28	1		28.00
	Base	Sqm	2	46.1		0.1	9.22
	Wall	Sqm	4			1.95	359.58
	Slab	Sqm	1	46.1	1		46.10
	Node-CO-43						
	Base	Sqm	2			0.1	3.40
	Wall Slab	Sqm Sqm	4	17 17	1	1.68	114.24 17.00
	Node-CO-44	Sqifi	1	17	1		17.00
				1			
l l	Base	Sam	2	34.7		0.1	6.94
		Sqm Sqm	2	34.7		0.1 1.245	6.94 172.81
	Base				0.9		

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Base	Sqm	2	34.8		0.1	6.96
	Wall	Sqm	4			0.835	116.23
40	Slab	Sqm	1	34.8	0.9		31.32
12	Node-CO-46 Base	Sqm	2	9.3		0.1	1.86
	Wall	Sqm	4			3.395	126.29
	Slab	Sqm	1		1.3		12.09
13	Node-CO-47						
	Base	Sqm	2			0.1	2.84
	Wall Slab	Sqm Sqm	4		1.3	3.4	193.12 18.46
	Siab	Sqiii	I	14.2	1.3		10.40
	Road 19			Sides	2		
1	Node-CO-163						
	Base	Sqm	4	24.3		0.1	9.72
	Wall Slab	Sqm	8 2		0.0	1.425	277.02 43.74
2	Node-CO-164	Sqm		24.3	0.9		43.74
	Base	Sqm	4	29.9		0.1	11.96
	Wall	Sqm	8			1.24	296.61
	Slab	Sqm	2	29.9	0.9		53.82
3	Node-CO-165			40.4		2.4	47.00
	Base Wall	Sqm Sqm	8			0.1 1.15	17.36 399.28
	Slab	Sqm	2		0.9	1.13	78.12
4	Node-CO-166		_		0.0		10.12
	Base	Sqm	4			0.1	8.36
	Wall	Sqm	8			1.12	187.26
	Slab	Sqm	2	20.9	0.9		37.62
5	Node-CO-167 Base	Sqm	4	33.5		0.1	13.40
	Wall	Sqm	8			1.085	290.78
	Slab	Sqm	2		0.9		60.30
6	Node-CO-168						
	Base	Sqm	4			0.1	18.92
	Wall Slab	Sqm Sqm	8 2		0.9	0.91	344.34 85.14
7	Node-CO-169	Sqiii		47.3	0.9		65.14
	Base	Sqm	4	68.4		0.1	27.36
	Wall	Sqm	8	68.4		0.765	418.61
	Slab	Sqm	2	68.4	0.9		123.12
8	Node-CO-170 Base	Cam	4	120.2		0.1	48.08
	Wall	Sqm Sqm	8			0.1	740.43
	Slab	Sqm	2		0.9	0.77	216.36
9	Node-CO-171						
	Base	Sqm	4			0.1	28.32
<u> </u>	Wall	Sqm	8			0.74	419.14
10	Slab Node-CO-172	Sqm	2	70.8	0.9		127.44
10	Base	Sqm	4	103.2		0.1	41.28
	Wall	Sqm	8	103.2		0.855	705.89
	Slab	Sqm	2		0.9		185.76
				0:1			
1	Road-15a Node-CO-182			Sides	1		
- ' -	Base	Sqm	2	27.2		0.1	5.44
	Wall	Sqm	4			1.615	175.71
	Slab	Sqm	1		1		27.20
2	Node-CO-192						
	Base	Sqm	2			0.1	11.96
	Wall Slab	Sqm Sqm	1		0.9	0.965	230.83 53.82
3	Node-CO-481	Oqiii	<u> </u>	39.0	0.9		JJ.0Z
	Base	Sqm	2	28.1		0.1	5.62
	Wall	Sqm	4	28.1		1.62	182.09
	Slab	Sqm	1	28.1	1		28.10
4	Node-CO-482	C		50.7		0.4	11.74
	Base Wall	Sqm Sqm	2			0.1 0.97	11.74 227.76
	Slab	Sqm	1		0.9	0.37	52.83
5	Node-CO-190						
	Base	Sqm	2			0.1	12.56
	Wall	Sqm	4	62.8		1.25	314.00

6 N E E V V S S S N E E V S S N E E V V S S N E E V V S S N E E V V S S N E E V S N E E V S N E E V S N E E V V S S N E E V S	Slab Node-CO-184 Base Wall Slab Node-CO-195 Base Wall Slab Node-CO-187 Base Wall Slab Node-CO-188 Base Wall Slab Node-CO-188 Base Wall Slab Node-CO-188 Base	Sqm	1 2 4 1 1 2 4 1 2 4 1	62.8 151.1 151.1 151.1 170 170 170 80.5 80.5 80.5	0.9	0.1 1.245 0.1 1.28 0.1 0.865	30.22 752.48 135.99 34.00 870.40 153.00 16.10 278.53 72.45
8 N E E V V S S S S N N E E V V S S S N N E E V V S S S N N E E V V S S S N N E E V V S S S N N E E V V S S S N N E E V V S S S N N E E V V S S S N N E E V V S S S N N E E V V S S S N N E E V V S S S N N E E V V S S S N N E E V V S S S N N E E V V S S S N N E E V V S S N N E E V V S S N N E E V V S S N N E E V V S S N N E E V V S S N N E E V V S S N N E E V V S S N N E E V V S S N N E E V V S S N N E E V V S S N N E E V V S S N N E E V V S S N N E E V V S S N N E E V V S N N E E V V S N N E E V V S N N E E V V S N N E E V V S N E E V S N E E V V S N E E V V S N E E V V S N E E V S N E E V S N E E V S N E E V S N E E V S N E E V S N E E V S N E E V S N E E V S N E E V S N E E V S N E E V S N E	Base Wall Blab Node-CO-195 Base Wall Blab Node-CO-187 Base Wall Blab Node-CO-188 Base Wall Blab Node-CO-188 Base Wall Blab Node-CO-188 Base Wall Blab Node-CO-189	Sqm	4 1 2 4 1 1 2 4 1	151.1 151.1 170 170 170 170 80.5 80.5	0.9	0.1 1.28 0.1	752.48 135.99 34.00 870.40 153.00 16.10 278.53
9 N S S S S S S S S S S S S S S S S S S	Wall Slab Node-CO-195 Base Wall Slab Node-CO-187 Base Wall Slab Node-CO-188 Base Wall Slab Node-CO-188 Base Wall Slab Node-CO-188	Sqm	4 1 2 4 1 1 2 4 1	151.1 151.1 170 170 170 170 80.5 80.5	0.9	0.1 1.28 0.1	752.48 135.99 34.00 870.40 153.00 16.10 278.53
9 N 10 N 10 N	Slab Node-CO-195 Slase Wall Slab Node-CO-187 Slase Wall Slab Node-CO-188 Slab Node-CO-188 Slase Wall Slab Node-CO-188 Slase Wall Slab Node-CO-189	Sqm	1 2 4 1 2 4 1	151.1 170 170 170 170 80.5 80.5	0.9	0.1 1.28	34.00 870.40 153.00 16.10 278.53
7 N E V V S S S N S S N S S N S S N S S N S S N S S N S S N S N S S N	Node-CO-195 Base Wall Blab Node-CO-187 Base Wall Blab Node-CO-188 Base Wall Blab Node-CO-188 Base Wall Blab Node-CO-189	Sqm Sqm Sqm Sqm Sqm Sqm Sqm	2 4 1 2 4 1	170 170 170 170 80.5 80.5	0.9	0.1	34.00 870.40 153.00 16.10 278.53
9 N 5 S 9 N 10 N	Base Wall Slab Node-CO-187 Base Wall Slab Node-CO-188 Base Wall Blab Node-CO-188 Base Wall Slab	Sqm Sqm Sqm Sqm Sqm Sqm	2 4 1	170 170 80.5 80.5		0.1	870.40 153.00 16.10 278.53
9 N E V V S S 10 N E	Slab Node-CO-187 Base Wall Slab Node-CO-188 Base Wall Slab Node-CO-188 Base Wall Slab Node-CO-189	Sqm Sqm Sqm Sqm Sqm Sqm	1 2 4 1	80.5 80.5		0.1	153.00 16.10 278.53
8 N E E V V S S S S S S S S S S S S S S S S	Node-CO-187 Base Wall Blab Node-CO-188 Base Wall Blab Node-CO-188 Base Wall Blab Node-CO-189	Sqm Sqm Sqm Sqm	2 4 1	80.5 80.5			16.10 278.53
9 M E V S 10 M	Base Wall Slab Node-CO-188 Base Wall Slab Node-CO-188	Sqm Sqm Sqm Sqm	1	80.5	0.9		278.53
9 N E V V S S 10 N E V V	Wall Slab Node-CO-188 Base Wall Slab Node-CO-189	Sqm Sqm Sqm Sqm	1	80.5	0.9		278.53
9 N E V S 10 N E	Slab Node-CO-188 Slase Wall Slab Node-CO-189	Sqm Sqm Sqm	1		0.9	0.003	
9 N E V S 10 N E	Node-CO-188 Base Wall Blab Node-CO-189	Sqm Sqm		55.5	0.0		
10 N	Base Nall Blab Node-CO-189	Sqm	2	1			
10 N E	Slab Node-CO-189			43.1		0.1	8.62
10 N	Node-CO-189	Cam	4	43.1		1.175	202.57
E V		Sqm	1	43.1	0.9		38.79
V	Dase	Sqm	2	97.4		0.1	19.48
	Vall	Sqm	4	97.4		0.1	358.43
	Slab	Sqm	1	97.4	0.9	0.02	87.66
	Node-CO-483						
Е	Base	Sqm	2	64.4		0.1	12.88
	Vall	Sqm	4	64.4		2.89	744.46
	Slab	Sqm	1	64.4	1.2		77.28
	Node-CO-484	Sqm	2	120.6		0.1	24.12
	Base Wall	Sqm	2	120.6		1.605	774.25
	Slab	Sqm	1	120.6	1	1.000	120.60
	Node-CO-485						
Е	Base	Sqm	2	30.5		0.1	6.10
	Vall	Sqm	4	30.5		0.715	87.23
	Slab	Sqm	1	30.5	0.9		27.45
	Node-CO-486 Base	Sqm	2	169.2		0.1	33.84
	vall	Sqm	4	169.2		0.61	412.85
	Slab	Sqm	1	169.2	0.9	0.01	152.28
		94			0.0		.02.20
	15a-New Drain			1			
	MH-524						
	Base	Sqm	2	27.7		0.10	5.54
	Wall Slab	Sqm Sqm	4	27.7 27.7	1	1.62 0.15	178.94 4.16
	Siab	- Oqiii	'	21.1		0.13	4.10
2 N	MH-525						
	Base	Sqm	2	59.4		0.10	11.88
	Vall	Sqm	4	59.4		0.97	229.28
	Slab	Sqm	1	59.4	0.9	0.15	8.02
2	MILEOZ					\longrightarrow	
	MH-527 Base	Sqm	2	62.8		0.10	12.56
	vall	Sqm	4	62.8		1.34	336.61
	Slab	Sqm	1	62.8	0.9	0.15	8.48
	MH-528						
	Base No. 11	Sqm	2	120.5		0.10	24.10
	Wall Slob	Sqm	4	120.5	0.0	1.26	604.91
	Slab	Sqm	1	120.5	0.9	0.15	16.27
5 N	MH-529		 			-	
	Base	Sqm	2	29.7		0.10	5.94
٧	Wall	Sqm	4	29.7		1.28	152.06
5	Slab	Sqm	1	29.7	0.9	0.15	4.01
	MH-530	Carra		170.0		0.40	24.40
	Base Wall	Sqm Sqm	2	170.8 170.8		0.10 1.35	34.16 918.90
	Slab	Sqm	1	170.8	0.9	0.15	23.06
	JIGD	Oqiii	'	170.0	0.5	0.10	20.00
7 N	MH-532						
Е	Base	Sqm	2	80.5		0.10	16.10
	Vall	Sqm	4	80.5		0.87	278.53
	Slab	Sqm	1	80.5	0.9	0.15	10.87

Sr. No.	Description	Unit	No's	L	В	н	Qty.
8	MH-533						
	Base	Sqm	2	43.1		0.10	8.62
	Wall Slab	Sqm Sqm	<u>4</u>	43.1 43.1	0.9	1.18 0.15	202.57 5.82
	Siab	Sqiii	I	43.1	0.9	0.15	3.02
9	MH-533						
	Base	Sqm	2	97.4		0.10	19.48
	Wall	Sqm	4	97.4	0.0	0.92	358.43
	Slab	Sqm	1	97.4	0.9	0.15	13.15
	Road 15b			Sides	1		
1	Node-CO-467						
	Base Wall	Sqm	2	79.8	1.1	0.1	17.56
	Slab	Sqm Sqm	4	79.8 79.8	0.15 0.9	0.61	29.21 14.36
2	Node-CO-469	94		7 0.0	0.0	0.2	1 1.00
	Base	Sqm	2	23.8	1.1	0.1	5.24
	Wall	Sqm	4	23.8	0.15	0.99	14.14
3	Slab Node-CO-470	Sqm	1	23.8	0.9	0.2	4.28
	Base	Sqm	2	62.6	1.1	0.1	13.77
	Wall	Sqm	4	62.6	0.15	0.66	24.79
	Slab	Sqm	1	62.6	0.9	0.2	11.27
4	Node-CO-473 Base	Sqm	2	30.4	1.1	0.1	6.69
	Wall	Sqm	4	30.4	0.15	0.92	16.78
	Slab	Sqm	1	30.4	0.9	0.2	5.47
5	Node-CO-474						
	Base Wall	Sqm Sqm	2 4	62 62	1.1 0.15	0.1 1.065	13.64 39.62
	Slab	Sqm	1	62	0.13	0.2	11.16
6	Node-CO-472						
	Base	Sqm	2	32	1.1	0.1	7.04
	Wall	Sqm	4	32	0.15	1.035	19.87
7	Slab Node-CO-468	Sqm	1	32	0.9	0.2	5.76
	Base	Sqm	2	28.4	1.1	0.1	6.25
	Wall	Sqm	4	28.4	0.15	1.12	19.08
	Slab	Sqm	1	28.4	0.9	0.2	5.11
8	Node-CO-495 Base	Sqm	2	88.4	1.1	0.1	19.45
	Wall	Sqm	4	88.4	0.15	0.71	37.66
	Slab	Sqm	1	88.4	0.9	0.2	15.91
9	Node-CO-496	0	0	70.4	4.4	0.4	40.04
	Base Wall	Sqm Sqm	4	76.4 76.4	1.1 0.15	0.1 0.975	16.81 44.69
	Slab	Sqm	1	76.4	0.13	0.373	13.75
10	Node-CO-499	·					
	Base	Sqm	2	4.2	1.1	0.1	0.92
	Wall Slab	Sqm Sqm	1	4.2 4.2	0.15 0.9	1.05 0.2	2.65 0.76
11	Node-CO-497	Sqiii	- '	4.2	0.9	0.2	0.70
	Base	Sqm	2	87.6	1.1	0.1	19.27
	Wall	Sqm	4	87.6	0.15	0.655	34.43
12	Slab Node-CO-498	Sqm	1	87.6	0.9	0.2	15.77
12	Base	Sqm	2	75.9	1.1	0.1	16.70
	Wall	Sqm	4	75.9	0.15	0.83	37.80
	Slab	Sqm	1	75.9	0.9	0.2	13.66
13	Node-CO-494	0		77.0	4.4	0.4	17.04
	Base Wall	Sqm Sqm	2 4	77.3 77.3	1.1 0.15	0.1 0.61	17.01 28.29
	Slab	Sqm	1	77.3	0.13	0.01	13.91
14	Node-CO-503	·					
	Base	Sqm	2	76.6	1.1	0.1	16.85
	Wall Slab	Sqm	4	76.6 76.6	0.15 0.9	0.61 0.2	28.04 13.79
15	Node-CO-501	Sqm	1	70.0	0.9	0.2	13.79
	Base	Sqm	2	32.5	1.1	0.1	7.15
	Wall	Sqm	4	32.5	0.15	0.625	12.19
40	Slab	Sqm	1	32.5	0.9	0.2	5.85
16	Node-CO-502 Base	Sqm	2	56.2	1.1	0.1	12.36
				JU.Z	1.1	0.1	16.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Slab	Sqm	1	56.2	0.9	0.2	10.12
17	Node-CO-492						
	Base	Sqm	2	30.9	1.1	0.1	6.80
	Wall Slab	Sqm Sqm	4	30.9 30.9	0.15 0.9	0.61	11.31 5.56
18	Node-CO-493	Oqiii		30.3	0.0	0.2	0.00
	Base	Sqm	2	56.5	1.1	0.1	12.43
	Wall	Sqm	4	56.5	0.15	0.61	20.68
19	Slab Node-CO-500	Sqm	1	56.5	0.9	0.2	10.17
19	Base	Sqm	2	32.4	1.1	0.1	7.13
	Wall	Sqm	4	32.4	0.15	0.61	11.86
	Slab	Sqm	1	32.4	0.9	0.2	5.83
20	Node-CO-491					2.4	
	Base Wall	Sqm Sqm	2 4	32 32	1.1 0.15	0.1 0.61	7.04 11.71
	Slab	Sqm	1	32	0.13	0.61	5.76
21	Node-CO-490	Oqiii		02	0.0	0.2	0.70
	Base	Sqm	2	24.8	1.1	0.1	5.46
	Wall	Sqm	4	24.8	0.15	0.65	9.67
- 20	Slab	Sqm	1	24.8	0.9	0.2	4.46
22	Node-CO-488 Base	Sqm	2	39	1.1	0.1	8.58
	Wall	Sqm	4	39	0.15	0.62	14.51
	Slab	Sqm	1	39	0.9	0.2	7.02
23	Node-CO-489						
	Base	Sqm	2	44.3	1.1	0.1	9.75
	Wall Slab	Sqm Sqm	4	44.3 44.3	0.15 0.9	0.61 0.2	16.21 7.97
24	Node-CO-487	Sqiii	I	44.3	0.9	0.2	1.91
	Base	Sqm	2	23.2	1.1	0.1	5.10
	Wall	Sqm	4	23.2	0.15	0.62	8.63
	Slab	Sqm	1	23.2	0.9	0.2	4.18
25	Node-CO-221	Cam	2	101.2	1 1	0.1	22.20
	Base Wall	Sqm Sqm	2 4	101.3 101.3	1.1 0.15	0.1 1.23	22.29 74.76
	Slab	Sqm	1	101.3	0.9	0.2	18.23
	Road 20			Sides	2		
1	Node-CO-455 Base	Sam	4	87		0.15	52.20
	Wall	Sqm Sqm	8	87		1.985	1381.56
	Slab	Sqm	2	87	1		174.00
2	Node-CO-456						
	Base	Sqm	4	95.8		0.15	57.48
	Wall Slab	Sqm Sqm	8 2	95.8 95.8	0.9	1.47	1126.61 172.44
3	Node-CO-457	Sqiii		93.0	0.9		172.44
	Base	Sqm	4	82.7		0.15	49.62
	Wall	Sqm	8	82.7		1.35	893.16
	Slab	Sqm	2	82.7	0.9		148.86
4	Node-CO-458 Base	Sqm	4	105.2		0.15	63.12
	Wall	Sqm	8	105.2		1.395	1174.03
	Slab	Sqm	2	105.2	0.9		189.36
5	Node-CO-459				-		
	Base	Sqm	4	62.5		0.15	37.50
	Wall Slab	Sqm Sqm	8	62.5 62.5	0.9	1.41	705.00
6	Node-CO-460	Sqiii		02.5	0.9		112.50
	Base	Sqm	4	48.1		0.15	28.86
	Wall	Sqm	8	48.1		1.245	479.08
	Slab	Sqm	2	48.1	0.9		86.58
7	Node-CO-461 Base	Cam	A	47.0		0.45	20 60
	Wall	Sqm Sqm	4 8	47.8 47.8		0.15 1.225	28.68 468.44
	Slab	Sqm	2	47.8	0.9	1.220	86.04
8	Node-CO-462						
	Base	Sqm	4	18.3		0.15	10.98
	Wall	Sqm	8	18.3	2.0	1.3	190.32
9	Slab Node-CO-463	Sqm	2	18.3	0.9		32.94
	111000-00-700						
9	Base	Sqm	4	19.9		0.15	11.94

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Slab	Sqm	2	19.9	0.9		35.82
10	Node-CO-464	0	1	45.0		0.45	0.40
	Base Wall	Sqm Sqm	8			0.15 1.245	9.48 157.37
	Slab	Sqm	2		0.9	1.243	28.44
11	Node-CO-479						
	Base	Sqm	4			0.15	146.58
	Wall	Sqm	8			0.915	1788.28
40	Slab	Sqm	2	244.3	0.9		439.74
12	Node-CO-480 Base	Sqm	4	170.7		0.15	102.42
	Wall	Sqm	8			0.13	867.16
	Slab	Sqm	2		0.9	0.000	307.26
13	Node-CO-477		_				
	Base	Sqm	4			0.15	44.52
	Wall	Sqm	8			0.635	376.94
	Slab	Sqm	2	74.2	0.9		133.56
14	Node-CO-348	Causa	1	15.4		0.45	9.24
	Base Wall	Sqm Sqm	8			0.15 1.705	210.06
	Slab	Sqm	2		1	1.703	30.80
15	Node-CO-349	Oqiii	_	10.1	<u> </u>		00.00
	Base	Sqm	4	75.2		0.15	45.12
	Wall	Sqm	8			1.705	1025.73
	Slab	Sqm	2	75.2	1		150.40
	Box Culvert						
	Box Culvert 7a						
	Box Culvert-Slab	Sqm	2	11.2	1		22.40
	Box Culvert-Wall	Sqm	8		1		89.60
	7c						00.00
	Box Culvert-Slab	Sqm	8	16.7	1		133.60
	Box Culvert-Wall	Sqm	32	16.7	1		534.40
	8						
	Box Culvert-Slab	Sqm	4		1.5		75.00
	Box Culvert-Wall	Sqm	16	12.5	1.5		300.00
	Box Culvert-Slab	Sqm	4	12.5	1.5		75.00
	Box Culvert-Viall	Sqm	16		1.5		300.00
	19a						000.00
	Box Culvert-Slab	Sqm	4	10.6	1.5		63.60
	Box Culvert-Wall	Sqm	16	10.6	1.5		254.40
	19b						
	Box Culvert-Slab	Sqm	4		1.5		156.60
	Box Culvert-Wall 15a	Sqm	16	26.1	1.5		626.40
	Box Culvert-Slab	Sqm	6	11.3	1.5		101.70
	Box Culvert-Wall	Sqm	24		1.5		406.80
	15b	- 1			1.0		.00.00
	Box Culvert-Slab	Sqm	8	6.75	1.5		81.00
	Box Culvert-Wall	Sqm	32		1.5		324.00
	20						
	Box Culvert-Slab	Sqm	8		1.5		155.40
	Box Culvert-Wall	Sqm	32		1.5		621.60
-		Sqm		Total Qty.			52432.82
19	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work including straighting, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to thr adjoing members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinary complete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 (SI No: 4.46.2 of KPWD 18-19)			Cum	Kg/Cum	Kg	мт
	SWD	MT	1	6634.04	80.00	530722.91	530.72
	Electrical Chamber	MT	1		80.00		91.78
	Box Culvert	MT	1	691.44	120.00	82972.80	82.97
		MT		8472.67		Total	705.47
				8501.41	Check		

Sr. No.	Description	Unit	No's	L	В	н	Qty.
20	KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of sub-grade with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory roller to 97% of proctors density) MORTH Specification No. 305IKPWD 18-19,19.62,17.1 and 17.4)						
	Footpath						
	7a-Milagres Cross Road						
	RHS Ch.10.000 to Ch.160.00	Cum	1.00	150.00	2.17	0.3	97.47
	7c-Attavar-Nandiguda Road						
	LHS Ch.10.000 to Ch.130.00	Cum	1.00	120.00	3.33	0.3	119.88
	Ch.150.000 to Ch.410.00	Cum	1.00	260.00	3.18	0.3	248.04
	Ch.420.000 to Ch.480.00	Cum	1.00	250.00	3.42	0.3	256.50
	Ch.480.000 to Ch.670.00	Cum	1.00	250.00	1.95	0.3	146.25
	Ch.680.000 to Ch.720.00	Cum	1.00	40.00	2.29	0.3	27.48
	Ch.730.000 to Ch.800.00	Cum	1.00	70.00	2.23	0.3	46.83
	Ch.810.000 to Ch.850.00	Cum	1.00	40.00	2.10	0.3	25.20
	Ch.880.000 to Ch.950.00 Ch.960.000 to Ch.1004.00	Cum Cum	1.00 1.00	70.00 44.00	2.24 2.43	0.3 0.3	47.04 32.08
	RHS	Cuili	1.00	44.00	∠.43	0.3	JZ.U0
	Ch.10.000 to Ch.130.00	Cum	1.00	120.00	3.02	0.3	108.72
	Ch.140.000 to Ch.350.00	Cum	1.00	210.00	3.00	0.3	189.00
	Ch.360.000 to Ch.430.00	Cum	1.00	70.00	5.21	0.3	109.41
	Ch.440.000 to Ch.610.00	Cum	1.00	170.00	5.02	0.3	256.02
	Ch.610.000 to Ch.730.00	Cum	1.00	120.00	3.59	0.3	129.24
	Ch.740.000 to Ch.840.00	Cum	1.00	100.00	2.43	0.3	72.90
	Ch.870.000 to Ch.950.00	Cum	1.00	80.00	2.64	0.3	63.36
	Ch.960.000 to Ch.1004.00	Cum	1.00	44.00	5.30	0.3	69.96
	8-New Balmatta Road						
	LHS						
	Ch.30.000 to Ch.150.00	Cum	1.00	120.00	3.10	0.3	111.60
	Ch.520.000 to Ch.580.00	Cum	1.00	60.00	3.73	0.3	67.14
	RHS						
	Ch.30.000 to Ch.80.00	Cum	1.00	50.00	4.44	0.3	66.60
	Ch.90.000 to Ch.150.00	Cum	1.00	60.00	3.05	0.3	54.90
	Ch.515.000 to Ch.560.00	Cum	1.00	45.00	2.67	0.3	36.05
	10-Kudumbi Garden (DBS)Road						
	LHS						
	Ch.10.000 to Ch.90.00	Cum	1.00	80.00	2.28	0.3	54.72
	Ch.90.000 to Ch.135.00	Cum	1.00	45.00	2.27	0.3	30.65
	Ch.140.000 to Ch.250.00	Cum	1.00	110.00	1.51	0.3	49.83
	Ch.140.000 to Ch.340.00	Cum	1.00	200.00	0.74	0.3	44.40
	RHS						
	Ch.10.000 to Ch.140.00	Cum	1.00	130.00	2.55	0.3	99.45
	Ch.190.000 to Ch.210.00 Ch.220.000 to Ch.360.00	Cum Cum	1.00 1.00	20.00 140.00	1.70 2.36	0.3 0.3	10.20 99.12
	C11.220.000 to C11.300.00	Cuiii	1.00	140.00	2.30	0.5	33.12
	19b-Balmatta Road						
	LHS						
	Ch.30.000 to Ch.300.00	Cum	1.00	270.00	4.43	0.3	358.83
	19a						
	LHS	C	4.00	40.00	10.00	2.5	00.00
	Ch.340.000 to Ch.350.00	Cum	1.00	10.00	10.00	0.3	30.00
	Ch.370.000 to Ch.390.00 Ch.390.000 to Ch.570.00	Cum Cum	1.00 1.00	20.00 180.00	2.05 2.04	0.3 0.3	12.30 110.16
	Ch.590.000 to Ch.620.00	Cum	1.00	30.00	2.04	0.3	19.80
			1.00	00.00	0	0.0	
	Ch.700.000 to Ch.840.00	Cum	1.00	140.00	3.24	0.3	136.08
	RHS						
	Ch.30.000 to Ch.300.00	Cum	1.00	270.00	4.55	0.3	368.55
	Ch.340.000 to Ch.630.00	Cum	1.00	290.00	2.14	0.3	186.18
	Ch 700 000 to Ch 045 00	C	4.00	445.00	0.04	2.0	407.00
	Ch.700.000 to Ch.845.00	Cum	1.00	145.00	2.94	0.3	127.89
	15a-Azizuddin Road						
	LHS						
	1		1		j		

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.00.000 to Ch.90.00	Cum	1.00	90.00	2.19	0.3	59.13
	Ch.100.000 to Ch.220.00	Cum	1.00	120.00	2.15	0.3	77.40
	Ch.220.000 to Ch.300.00	Cum	1.00	80.00	2.23	0.3	53.52
	Ch.310.000 to Ch.420.00	Cum	1.00	110.00	1.69	0.3	55.77
	Ch.420.000 to Ch.490.00	Cum	1.00	70.00	2.46	0.3	51.66
	Ch.490.000 to Ch.570.00	Cum	1.00	80.00	1.86	0.3	44.64
	Ch.580.000 to Ch.640.00	Cum	1.00	60.00	1.83	0.3	32.94
	Ch.650.000 to Ch.710.00	Cum	1.00	60.00	1.60	0.3	28.80
	RHS Ch.00.000 to Ch.90.00	Cum	1.00	90.00	1.82	0.3	49.14
	Ch.100.000 to Ch.90.00 Ch.100.000 to Ch.220.00	Cum	1.00	220.00	1.02	0.3	83.82
	Ch.220.000 to Ch.220.00	Cum	1.00	100.00	1.67	0.3	50.10
	Ch.330.000 to Ch.410.00	Cum	1.00	80.00	2.23	0.3	53.52
	Ch.420.000 to Ch.570.00	Cum	1.00	150.00	2.24	0.3	100.80
	Ch.580.000 to Ch.710.00	Cum	1.00	130.00	1.78	0.3	69.42
	15b-Jumma Masjid-Old Port Road						
	LHS						
	Ch.00.000 to Ch.90.00	Cum	1.00	90.00	2.19	0.3	59.13
	Ch.100.000 to Ch.220.00	Cum	1.00	120.00	2.15	0.3	77.40
	Ch.220.000 to Ch.300.00	Cum	1.00	80.00	2.23	0.3	53.52
	Ch.310.000 to Ch.420.00	Cum	1.00	110.00	1.69	0.3	55.77
	Ch.420.000 to Ch.490.00	Cum	1.00	70.00	2.46	0.3	51.66
<u> </u>	Ch.490.000 to Ch.570.00	Cum	1.00	80.00	1.86	0.3	44.64
-	Ch.580.000 to Ch.640.00	Cum	1.00	60.00	1.83	0.3	32.94
	Ch.650.000 to Ch.710.00	Cum	1.00	60.00	1.60	0.3	28.80
	Ch.00.000 to Ch.90.00	Cum	1.00	90.00	1.82	0.3	49.14
	Ch.100.000 to Ch.90.00 Ch.100.000 to Ch.220.00	Cum	1.00	120.00	2.33	0.3	83.88
	Ch.220.000 to Ch.320.00	Cum	1.00	100.00	1.67	0.3	50.10
	Ch.330.000 to Ch.410.00	Cum	1.00	80.00	2.23	0.3	53.52
	Ch.420.000 to Ch.570.00	Cum	1.00	150.00	2.24	0.3	100.80
	Ch.580.000 to Ch.710.00	Cum	1.00	130.00	1.78	0.3	69.42
	20-Bendre Ferry Road						
	LHS						
	Ch.00.000 to Ch.80.00	Cum	1.00	80.00	1.64	0.3	39.36
	Ch.80.000 to Ch.140.00	Cum	1.00	60.00	1.77	0.3	31.86
	Ch.180.000 to Ch.220.00	Cum	1.00	40.00	2.35	0.3	28.20
	Ch.230.000 to Ch.250.00	Cum	1.00	20.00	3.40	0.3	20.40
	Ch.250.000 to Ch.530.00	Cum	1.00	280.00	2.31	0.3	194.04
	RHS Ch.530.000 to Ch.580.00	Cum	0.00	0.00	0.00	0.3	0.00
	Ch.705.000 to Ch.1040.00	Cum Cum	1.00	50.00	5.60	0.3	84.00
	C11.705.000 to C11.1040.00	Cuili	1.00	335.00	2.29	0.3	230.15
	Parking Area						
	Road 7c						
	LHS						
	Ch.530.000 to Ch.590.000	Cum	1	60	2.5	0.30	45.00
	RHS						
	Ch.530.000 to Ch.590.000	Cum	1	71.13	2.5	0.30	53.35
	Road 8						
	LHS						
	Ch.50.000 to Ch.80.000	Cum	1	25.32	2	0.30	15.19
	RHS						
	Ch.50.000 to Ch.80.000	Cum	1	24.92	2	0.30	14.95
	Road 19b						
	RHS	Cum	1	129.7	2.5	0.00	07.00
	Ch.90.000 to Ch.250.000 Road 19a	Cum	- 1	129.7	2.5	0.30	97.28
	LHS						
	Ch.760.000 to Ch.830.000	Cum	1	53.83	2.5	0.30	40.37
	RHS	Odili	'	33.03	2.0	0.00	40.07
	Ch.760.000 to Ch.830.000	Cum	1	24.1	2.5	0.30	18.08
	Pavement		+		2.0	0.00	. 0.00
	7a-Milagres Cross Road						
	Ch.6.000 to Ch.165.000	Cum	1	183	5.3	0.15	145.49
	8-New Balmatta Road						-
	Ch.0.00 to 580.00	Cum	1	580	5.3	0.15	461.10
	19a-Arya Samaj Road						
	Ch.0.00 to 330.00	Cum	1	595	5.3	0.15	473.03
	15b-Jumma Masjid Road						
	Ch.720.0 to Ch.970.0	Cum	1	300	4.6	0.15	207.00
1	20-Bendre Ferry Road						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.0.00 to Ch.260.00	Cum	1	260	4.6	0.15	179.40
	19a-Balmatta Road						
	Ch.0.00 to Ch.320.00 RHS	Cum	1	291	0.5	0.15	21.83
	LHS	Cum	1	250	0.5	0.15	18.75
	20-Bendre Ferry Road	Cum	,	200	0.0	0.10	10.70
	RHS						
	Ch.0.000 to Ch.170.0	Cum	1.0	170.0	1.0	0.15	25.50
	Ch.188.0 to Ch.218.0 Ch.220.0 to Ch.270.0	Cum Cum	1.0	30.0 50.0	0.9	0.15 0.15	4.19 15.00
	Ch.570.0 to Ch.705.0	Cum	1.0 1.0	135.0	2.0 1.1	0.15	22.28
	Ch.770.0 to Ch.870.0	Cum	1.0	100.0	1.3	0.15	19.05
	Ch.870.0 to Ch.925.0	Cum	1.0	55.0	1.2	0.15	9.90
	Ch.930.0 to Ch.1070.0	Cum	1.0	140.0	0.9	0.15	18.06
	LHS		4.0	00.0		0.45	4.00
	Ch.125.0 to Ch.145.0 Ch.180.0 to Ch.200.00	Cum Cum	1.0 1.0	20.0 12.0	0.6 0.8	0.15 0.15	1.68 1.35
	Ch.260.0 to Ch.470.0	Cum	1.0	210.0	1.4	0.15	43.47
	Ch.530.0 to Ch.545.0	Cum	1.0	15.0	1.3	0.15	2.86
	Ch.780.0 to Ch.905.0	Cum	1.0	125.0	1.6	0.15	30.19
	Ch.915.0 to Ch.942.0	Cum	1.0	27.0	1.9	0.15	7.74
<u> </u>	Ch.950.0 to Ch.1100.0	Cum	1.0	150.0	1.6	0.15	36.68
	Consider Panel Repairing for Existing CC Road @ 5% 7c-Attavar -Nandigudda Road	Cum	0.05	1021	7	0.15	53.60
	10-Kudumbi Garden (DBS) Road	Cum	0.05	375	6.2	0.15	17.44
	Balmatta Road	Cum	0.05	330	15		37.13
	15b-Jumma Masjid Road	Cum	0.2	700	5.5	0.15	115.50
	20-Bendre Ferry Road	Cum	0.2	800	10		240.00
		Cum				Total	8861.59
21	M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications.Morth specification No.601 (SI No: 22.1.1 of KPWD 18-19)						
	Ch.6.000 to Ch.165.000	Cum	1	183	5.3	0.10	96.99
<u> </u>	8-New Balmatta Road	0:		F06		2 12	007.40
	Ch.0.00 to 580.00 19a-Arya Samaj Road	Cum	1	580	5.3	0.10	307.40
	Ch.0.00 to 330.00	Cum	1	595	5.3	0.10	315.35
	15b-Jumma Masjid Road						
	Ch.720.0 to Ch.970.0	Cum	1	300	4.6	0.10	138.00
	20-Bendre Ferry Road	Cum	4	260	16	0.10	110.60
-	Ch.0.00 to Ch.260.00 19a-Balmatta Road	Cum	1	260	4.6	0.10	119.60
	Ch.0.00 to Ch.320.00						
	RHS	Cum	1	291	0.5	0.10	14.55
	LHS	Cum	1	250	0.5	0.10	12.50
	20-Bendre Ferry Road						
	RHS Ch.0.000 to Ch.170.0	Cum	1.0	170.0	1.0	0.10	17.00
	Ch.188.0 to Ch.218.0	Cum	1.0	30.0	0.9	0.10	2.79
	Ch.220.0 to Ch.270.0	Cum	1.0	50.0	2.0	0.10	10.00
	Ch.570.0 to Ch.705.0	Cum	1.0	135.0	1.1	0.10	14.85
ļ	Ch.770.0 to Ch.870.0	Cum	1.0	100.0	1.3	0.10	12.70
-	Ch.870.0 to Ch.925.0 Ch.930.0 to Ch.1070.0	Cum Cum	1.0 1.0	55.0 140.0	1.2 0.9	0.10 0.10	6.60 12.04
-	LHS	Cuiii	1.0	140.0	0.9	0.10	12.04
	Ch.125.0 to Ch.145.0	Cum	1.0	20.0	0.6	0.10	1.12
	Ch.180.0 to Ch.200.00	Cum	1.0	12.0	0.8	0.10	0.90
	Ch.260.0 to Ch.470.0	Cum	1.0	210.0	1.4	0.10	28.98
	Ch.530.0 to Ch.545.0	Cum	1.0	15.0	1.3		1.91
	Ch.590.0 to Ch.750.0	Cum Cum	1.0	160.0 125.0	0.8		13.12
	Ch.780.0 to Ch.905.0	Cum	1.0	125.0	1.6	0.10	20.13

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.915.0 to Ch.942.0	Cum	1.0		1.9	0.10	5.16
	Ch.950.0 to Ch.1100.0	Cum	1.0	150.0	1.6	0.10	24.45
	Road 7C LHS						
	Ch.0.00 to Ch.45.0	Cum	1	10.0	0.7	0.10	0.70
	Ch.80.0 to Ch. 205.0	Cum	1		0.1	0.10	0.19
	Ch.280.0 to Ch.300.0	Cum	1	-	0.2	0.10	0.09
	Ch.305.0 to Ch.335.0	Cum	1		0.8	0.10	0.59
	Ch.410.0	Cum	1	-	1.2	0.10	0.12
	Ch.500.0 to Ch.660.0	Cum	1		0.7	0.10	2.45
	Ch.680.0 to Ch.745.0 Ch.835.0 to Ch.880.0	Cum Cum	1		0.3	0.10 0.10	0.36 0.74
	Ch.910.0 to Ch.930.0	Cum	1		0.1	0.10	0.74
	Ch.940.0 to Ch.950.0	Cum	1		0.7	0.10	0.14
	Ch.960.0	Cum	1		0.3	0.10	0.03
	RHS						
	Ch.215.0 to Ch.230.0	Cum	1	3.0	0.2	0.10	0.07
	Ch.350.0 to Ch.355.0	Cum	1	_	0.8	0.10	0.08
	Ch.385.0 to Ch.430.0	Cum	1		0.1	0.10	0.10
	Ch.460.0 to Ch.480.0	Cum Cum	1	_	0.4 0.4	0.10	0.14 0.42
	Ch.765.0 to Ch.820.0 Ch.980.0 to Ch.1004.0	Cum	1		0.4	0.10 0.10	0.42
	Road 15a	Cuiii	<u> </u>	5.0	0.4	0.10	U.Z I
	LHS						
	Ch.80.0 to Ch.90.0	Cum	1	2.0	0.2	0.10	0.03
	Ch.95.0 to Ch.110.0	Cum	1	3.0	0.1	0.10	0.04
	Ch.180.0 to Ch.210.0	Cum	1	_	0.2	0.10	0.16
	Ch.280.0 to Ch.300.0	Cum	1		0.1	0.10	0.05
	Ch.350.0 to Ch.375.0	Cum	1		0.3	0.10	0.20
	Ch.410.0	Cum	1		0.5 2.2	0.10	0.05
	Ch.420.0 Ch.570.0	Cum Cum	1		0.6	0.10 0.10	0.22 0.06
	RHS	Cuiii	'	1.0	0.0	0.10	0.00
	Ch.45.0 to Ch.75.0	Cum	1	7.0	0.3	0.10	0.24
	Ch.395.0 to ch.410.0	Cum	1		0.6	0.10	0.18
	Ch.485.0 to Ch.510.0	Cum	1	6.0	0.5	0.10	0.28
	Ch.545.0 to Ch.570.0	Cum	1		0.4	0.10	0.22
	Ch.630.0 to Ch.640.0	Cum	1	2.0	0.2	0.10	0.05
	Consider Denal Denaising for Evicting CC Bood @ 50/						
	Consider Panel Repairing for Existing CC Road @ 5% 7c-Attavar -Nandigudda Road	Cum	0.05	1021	7	0.10	35.74
	10-Kudumbi Garden (DBS) Road	Cum	0.05		6.2	0.10	11.63
	Balmatta Road	Cum	0.05		15	0.10	24.75
	15a-Azzizuddin Road	Cum	0.05		6		21.51
	15b-Jumma Masjid Road	Cum	0.2	700	5.5	0.10	77.00
	20-Bendre Ferry Road	Cum	0.2	800	10	0.10	160.00
	Road Crossing for Utility RCC Ducts						
1	7a-Milagres Cross Road	Cum	4		1.182	0	0.00
3	7c-Nandigudda Road 8-New Balmatta Road	Cum Cum	11 12		1.182 1.182	0.1	20.80 0.00
4	10-New Baimatta Road 10-Kudumbi Garden (DBS) Road	Cum	8		1.182	0.1	11.35
5	19a-Arya Samaj Road	Cum	6		1.182	0.1	0.00
6	19bBalmatta Road	Cum	4		1.182	0.1	12.29
7	15a-Azizuddin Road	Cum	8		1.182	0.1	10.40
8	15b-Jumma Masjid-Old Port Road	Cum	16	_	1.182	0.1	11.35
9	20-Bendre Ferry Road	Cum	18.4		1.182	0.1	26.10
		Cum		Total Qty.			1607.27
	VCDDD MC00.1 Construction of dry loop coment concrete mix						
	KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size						
	graded granite/trap/basalt metal coarse aggregate at 0.86cum and						
	fine aggregate @ 0.58cum Sub-base over prepared sub grade						
	with (coarse and fine aggregate confirming to IS:383) aggregate						
	cement ration not to excee 15:1. Aggregate gradation after						
22	blending to be as per Table 600-1, cement content to be						
	determined during trail length construction, concrete strength not						
	to be less than 10Mpa at 7 days,mixed in a batching						
	plant,transported to site,Manually laid and compacting with palte compactor,finishing and curing complete as per MORTH						
	specifications Clause 601.						
	(RA attached)						
	` '						
	Flush Footpath 7a						
	LHS						
	====		1	i			

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.20.000 to Ch.70.00	Cum	1.00	50.00	2.03	0.10	10.15
	Ch.75.000 to Ch.160.00	Cum	1.00	85.00	0.47	0.10	4.00
	7c						
	LHS Ch.850.000 to Ch.875.00	Cum	1.00	25.00	0.60	0.10	1.50
	RHS	Cum	1.00	25.00	0.60	0.10	1.50
	Ch.260.000 to Ch.280.00	Cum	1.00	20.00	0.50	0.10	1.00
	Ch.320.000 to Ch.350.00	Cum	1.00	30.00	2.07	0.10	6.21
	Ch.620.000 to Ch.680.00	Cum	1.00	60.00	2.88	0.10	17.28
	Ch.810.000 to Ch.840.00	Cum	1.00	30.00	0.18	0.10	0.54
	Ch.850.000 to Ch.875.00	Cum	1.00	25.00	0.92	0.10	2.30
	Ch.900.000 to Ch.920.00	Cum	1.00	20.00	1.00	0.10	2.00
	8						
	LHS						
	Ch.150.000 to Ch.190.00	Cum	1.00	40.00	0.43	0.10	1.72
	Ch.190.000 to Ch.200.00	Cum	1.00	10.00	1.00	0.10	1.00
	Ch.210.000 to Ch.270.00	Cum	1.00	60.00	0.87	0.10	5.22
	Ch.270.000 to Ch.510.00	Cum	1.00	240.00	0.75	0.10	18.00
	RHS						
	Ch.150.000 to Ch.200.00	Cum	1.00	50.00	0.60	0.10	3.00
	Ch.220.000 to Ch.300.00	Cum	1.00	80.00	1.29	0.10	10.32
	Ch.310.000 to Ch.320.00	Cum	1.00	10.00	1.20	0.10	1.20
	Ch.330.000 to Ch.350.00	Cum	1.00	20.00	1.20	0.10	2.40
	Ch.360.000 to Ch.400.00	Cum	1.00	40.00	1.38	0.10	5.52
	Ch.410.000 to Ch.510.00	Cum	1.00	100.00	0.85	0.10	8.50
	10						
	LHS						
	Ch.150.000 to Ch.180.00	Cum	1.00	30.00	1.03	0.10	3.09
	19						
	LHS						
	Ch.625.000 to Ch.700.00	Cum	1.00	75.00	0.71	0.10	5.33
	Ch.850.000 to Ch.920.00	Cum	1.00	70.00	0.76	0.10	5.32
	RHS						
	Ch.625.000 to Ch.700.00	Cum	1.00	75.00	0.87	0.10	6.53
	Ch.800.000 to Ch.830.00	Cum	1.00	30.00	1.96	0.10	5.88
	Ch.850.000 to Ch.920.00	Cum	1.00	70.00	0.86	0.10	6.02
	15b LHS						
	Ch.00.000 to Ch.80.00	Cum	1.00	80.00	1.24	0.10	0.02
	Ch.90.000 to Ch.200.00	Cum	1.00	110.00	0.95	0.10	9.92 10.45
	Ch.210.000 to Ch.200.00	Cum	1.00	110.00	0.93	0.10	7.48
	Ch.320.000 to Ch.420.00	Cum	1.00	100.00	0.60	0.10	6.00
	Ch.430.000 to Ch.500.00	Cum	1.00	70.00	0.63	0.10	4.41
	Ch.510.000 to Ch.530.00	Cum	1.00	20.00	0.60	0.10	1.20
	Ch.510.000 to Ch.580.00	Cum	1.00	70.00	0.37	0.10	2.59
	Ch.590.000 to Ch.720.00	Cum	1.00	30.00	3.73	0.10	11.19
	Ch.750.000 to Ch.920.00	Cum	1.00	170.00	1.75	0.10	29.75
	RHS				0	00	
	Ch.00.000 to Ch.80.00	Cum	1.00	80.00	1.76	0.10	14.08
	Ch.80.000 to Ch.210.00	Cum	1.00	130.00	0.85	0.10	11.05
	Ch.210.000 to Ch.270.00	Cum	1.00	60.00	0.83	0.10	4.98
	Ch.270.000 to Ch.280.00	Cum	1.00	10.00	0.60	0.10	0.60
	Ch.280.000 to Ch.320.00	Cum	1.00	40.00	0.83	0.10	3.32
	Ch.330.000 to Ch.470.00	Cum	1.00	140.00	0.43	0.10	6.02
	Ch.480.000 to Ch.500.00	Cum	1.00	20.00	0.77	0.10	1.54
	Ch.510.000 to Ch.680.00	Cum	1.00	170.00	0.98	0.10	16.66
	Ch.690.000 to Ch.750.00	Cum	1.00	60.00	0.73	0.10	4.38
	Ch.750.000 to Ch.800.00	Cum	1.00	50.00	1.24	0.10	6.20
	Ch.800.000 to Ch.910.00	Cum	1.00	90.00	2.13	0.10	19.17
	20						
	LHS						
	Ch.150.000 to Ch.180.00	Cum	1.00	30.00	0.80	0.10	2.40
	Ch.530.000 to Ch.550.00	Cum	1.00	20.00	1.30	0.10	2.60
	Ch.560.000 to Ch.750.00	Cum	1.00	190.00	1.55	0.10	29.45
	Ch.760.000 to Ch.900.00	Cum	1.00	140.00	2.39	0.10	33.46
	Ch.920.000 to Ch.940.00	Cum	1.00	20.00	3.10	0.10	6.20
	Ch.950.000 to Ch.1100.00	Cum	1.00	150.00	3.55	0.10	53.25
	RHS						
	Ch.45.000 to Ch.80.00	Cum	1.00	35.00	0.71	0.10	2.49
	Ch.150.000 to Ch.180.00	Cum	1.00	30.00	1.10	0.10	3.30
	LCB 200 000 to CB 260 00	Cum	1.00	60.00	2.30	0.10	13.80
	Ch.200.000 to Ch.260.00						
	Ch.685.000 to Ch.705.00	Cum	1.00	20.00	0.75	0.10	1.50

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Road 7c						
	LHS Ch.530.000 to Ch.590.000	Cum	1	60	2.5	0.10	15.00
	RHS	Cuiii	'	00	2.0	0.10	13.00
	Ch.530.000 to Ch.590.000	Cum	1	71.13	2.5	0.10	17.78
	Road 8 LHS						
	Ch.50.000 to Ch.80.000	Cum	1	25.32	2	0.10	5.06
	RHS						
	Ch.50.000 to Ch.80.000	Cum	1	24.92	2	0.10	4.98
	Road 19b RHS						
	Ch.90.000 to Ch.250.000	Cum	1	129.7	2.5	0.10	32.43
	Road 19a						
	LHS Ch.760.000 to Ch.830.000	Cum	1	53.83	2.5	0.10	13.46
	RHS	Odili		00.00	2.0	0.10	10.40
	Ch.760.000 to Ch.830.000	Cum	1	24.1	2.5	0.10	6.03
						Total	548.19
23	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 em thick layers and well compacted including vibrating curing etc., for all super structure works with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) Note: The RMC should be obtained only from the plants certified by Quality Council of India as per CE, C&B letter, AE2, 2015-16, Dt. 12-09-2015 Ready mixed Cement concrete M-25 (KPWD,4.49.2)						
	7a-Milagres Cross Road						
	RHS						
	Ch.10.000 to Ch.160.00	Cum	1.00	150.00	2.17	0.10	32.49
	7c-Attavar-Nandiguda Road						
	LHS						
	Ch.10.000 to Ch.130.00 Ch.150.000 to Ch.410.00	Cum Cum	1.00	120.00 260.00	3.33	0.10 0.10	39.96 82.68
	Ch.420.000 to Ch.480.00	Cum	1.00 1.00	250.00	3.18 3.42	0.10	85.50
	Ch.480.000 to Ch.670.00	Cum	1.00		1.95		
	Ch.680.000 to Ch.720.00	Cum	1.00	40.00	2.29	0.10	9.16
	Ch.730.000 to Ch.800.00 Ch.810.000 to Ch.850.00	Cum Cum	1.00 1.00	70.00 40.00	2.23 2.10		15.61 8.40
	Ch.880.000 to Ch.950.00	Cum	1.00	70.00	2.10	0.10	15.68
	Ch.960.000 to Ch.1004.00	Cum	1.00	44.00	2.43	0.10	10.69
	RHS	0	4.00	120.00	0.00	0.40	00.04
	Ch.10.000 to Ch.130.00 Ch.140.000 to Ch.350.00	Cum Cum	1.00 1.00	210.00	3.02 3.00	0.10 0.10	36.24 63.00
	Ch.360.000 to Ch.430.00	Cum	1.00	70.00	5.21	0.10	36.47
	Ch.440.000 to Ch.610.00	Cum	1.00	170.00	5.02	0.10	85.34
	Ch.610.000 to Ch.730.00	Cum	1.00	120.00 100.00	3.59 2.43	0.10	43.08
	Ch.740.000 to Ch.840.00 Ch.870.000 to Ch.950.00	Cum Cum	1.00 1.00	80.00	2.43		24.30 21.12
	Ch.960.000 to Ch.1004.00	Cum	1.00	44.00	5.30	0.10	23.32
	8-New Balmatta Road LHS						
	Ch.30.000 to Ch.150.00	Cum	1.00	120.00	3.10	0.10	37.20
	Ch.520.000 to Ch.580.00	Cum	1.00	60.00	3.73	0.10	22.38
	RHS	O :	1.00	E0.00	4 4 *	0.16	00.00
	Ch.30.000 to Ch.80.00 Ch.90.000 to Ch.150.00	Cum Cum	1.00 1.00	50.00 60.00	4.44 3.05	0.10 0.10	22.20 18.30
	Ch.515.000 to Ch.560.00	Cum	1.00	45.00	2.67	0.10	12.02
							•
	10-Kudumbi Garden (DBS)Road LHS						
	Ch.10.000 to Ch.90.00	Cum	1.00	80.00	2.28	0.10	18.24
<u> </u>	Ch.90.000 to Ch.135.00	Cum	1.00	45.00	2.27	0.10	10.22
	Ch.140.000 to Ch.250.00	Cum	1.00	110.00	1.51	0.10	16.61
	Ch.140.000 to Ch.340.00	Cum	1.00	200.00	0.74	0.10	14.80
	RHS Ch.10.000 to Ch.140.00	Cum	1.00	130.00	2.55	0.10	33.15
	Ch.190.000 to Ch.210.00	Cum	1.00	20.00	1.70	0.10	3.40

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.220.000 to Ch.360.00	Cum	1.00	140.00	2.36	0.10	33.04
	19b-Balmatta Road						
	LHS						
	Ch.30.000 to Ch.300.00	Cum	1.00	270.00	4.43	0.10	119.61
	19a						
	LHS Ch.340.000 to Ch.350.00	Cum	1.00	10.00	10.00	0.10	10.00
	Ch.370.000 to Ch.390.00	Cum	1.00	20.00	2.05	0.10	4.10
	Ch.390.000 to Ch.570.00	Cum	1.00	180.00	2.04	0.10	36.72
	Ch.590.000 to Ch.620.00	Cum	1.00	30.00	2.20	0.10	6.60
	Ch.650.000 to Ch.660.00 Ch.700.000 to Ch.840.00	Cum Cum	1.00	10.00 140.00	1.13 3.24	0.10 0.10	1.13 45.36
	RHS	Cuiti	1.00	140.00	5.24	0.10	40.00
	Ch.30.000 to Ch.300.00	Cum	1.00	270.00	4.55	0.10	122.85
	Ch.340.000 to Ch.630.00	Cum	1.00	290.00	2.14	0.10	62.06
	Ch.650.000 to Ch.660.00 Ch.700.000 to Ch.845.00	Cum Cum	1.00 1.00	10.00 145.00	2.05 2.94	0.10 0.10	2.05 42.63
	G11.7 00.000 to C11.043.00	Cuiii	1.00	145.00	2.94	0.10	42.03
	15a-Azizuddin Road						
	LHS						
	Ch.00.000 to Ch.90.00 Ch.100.000 to Ch.220.00	Cum Cum	1.00	90.00	2.19 2.15	0.10 0.10	19.71 25.80
	Ch.220.000 to Ch.300.00	Cum	1.00	80.00	2.13	0.10	17.84
	Ch.310.000 to Ch.420.00	Cum	1.00	110.00	1.69	0.10	18.59
	Ch.420.000 to Ch.490.00	Cum	1.00	70.00	2.46	0.10	17.22
	Ch.490.000 to Ch.570.00	Cum	1.00	80.00	1.86	0.10	14.88
	Ch.580.000 to Ch.640.00 Ch.650.000 to Ch.710.00	Cum Cum	1.00	60.00 60.00	1.83 1.60	0.10 0.10	10.98 9.60
	RHS	Odili	1.00	00.00	1.00	0.10	3.00
	Ch.00.000 to Ch.90.00	Cum	1.00	90.00	1.82	0.10	16.38
	Ch.100.000 to Ch.220.00	Cum	1.00	220.00	1.27	0.10	27.94
	Ch.220.000 to Ch.320.00 Ch.330.000 to Ch.410.00	Cum Cum	1.00 1.00	100.00 80.00	1.67 2.23	0.10 0.10	16.70 17.84
	Ch.420.000 to Ch.470.00	Cum	1.00	150.00	2.24	0.10	33.60
	Ch.580.000 to Ch.710.00	Cum	1.00	130.00	1.78	0.10	23.14
	451						
	15b-Jumma Masjid-Old Port Road LHS						
	Ch.00.000 to Ch.90.00	Cum	1.00	90.00	2.19	0.10	19.71
	Ch.100.000 to Ch.220.00	Cum	1.00	120.00	2.15	0.10	
	Ch.220.000 to Ch.300.00	Cum	1.00	80.00	2.23	0.10	17.84
	Ch.310.000 to Ch.420.00 Ch.420.000 to Ch.490.00	Cum Cum	1.00	110.00 70.00	1.69 2.46	0.10 0.10	18.59 17.22
	Ch.490.000 to Ch.570.00	Cum	1.00	80.00	1.86	0.10	14.88
	Ch.580.000 to Ch.640.00	Cum	1.00	60.00	1.83	0.10	10.98
	Ch.650.000 to Ch.710.00	Cum	1.00	60.00	1.60	0.10	9.60
	RHS Ch.00.000 to Ch.90.00	Cum	1.00	90.00	1.82	0.10	16.38
	Ch.100.000 to Ch.220.00	Cum	1.00	120.00	2.33	0.10	27.96
	Ch.220.000 to Ch.320.00	Cum	1.00	100.00	1.67	0.10	16.70
	Ch.330.000 to Ch.410.00	Cum	1.00	80.00	2.23	0.10	17.84
	Ch.420.000 to Ch.570.00 Ch.580.000 to Ch.710.00	Cum Cum	1.00	150.00 130.00	2.24 1.78	0.10 0.10	33.60 23.14
	G11.380.000 to C11.7 10.00	Cuiii	1.00	130.00	1.70	0.10	23.14
	20-Bendre Ferry Road						
	LHS		4.00	00.00	4.04	0.40	40.40
	Ch.00.000 to Ch.80.00 Ch.80.000 to Ch.140.00	Cum Cum	1.00	80.00 60.00	1.64 1.77	0.10 0.10	13.12 10.62
	Ch.180.000 to Ch.220.00	Cum	1.00	40.00	2.35	0.10	9.40
	Ch.230.000 to Ch.250.00	Cum	1.00	20.00	3.40	0.10	6.80
	Ch.250.000 to Ch.530.00	Cum	1.00	280.00	2.31	0.10	64.68
	RHS Ch.530.000 to Ch.580.00	Cum	1.00	50.00	5.60	0.10	28.00
	Ch.705.000 to Ch.1040.00	Cum	1.00	335.00	2.29	0.10	76.72
		00.11	1.00	230.00		Total	2126.25

SSRRB M609-2 Construction of unreinforced cover joint centers connect in connection spenders of the an appeared shall be see with 25mm and down size graded grants metal coarse aggregate with superplications of control in the superplication of control on an approval, construction and indeptional point, superplication of control on an approval, construction and indeptional point, superplication of control on an approval, construction and indeptional point, superplications of control on an approval, configuration memberane, sealers grainer, superplications of control on an approval, configuration of control on an approval, configuration on approval, configuration on approval, configuration of the superplications of classes 602-with MAM 69/4206 per cure Centers CA 667 cure F.A.O.H.C.U. (St. No. 12.2.2 of KPW) 18-19) 7a Milagres Cross Road Ch. 8.100 to Ch. 185.000 Cure 1 1 580 5.30 0.25 242.4.8 18-New Baltistitis Road Cure 1 580 6.53.0 0.25 788.38 18-New Baltistitis Road Ch. 8.100 to Ch. 270.0 Cure 1 1 580 6.53.0 0.25 788.38 18-New Baltistitis Road Cure 1 280 Ch. 8.100 to Ch. 270.0 Cure 1 290 Ch. 8.100 to Ch. 270.0 Cure 1 290 Ch. 8.100 to Ch. 270.0 Cure 1 290 Ch. 8.100 to Ch. 270.0 Cure 1 1 290 Ch. 8.100 to Ch. 270.0 Cure 1 1 290 Ch. 8.100 to Ch. 270.0 Cure 1 1 180 Cure 1 1 170 Cure 1 1 180 Cure 1 1 170 Cure 1 1 180 Cure 1 1 170 Cure 1 1 180 Cure 1	Sr. No.	Description	Unit	No's	L	В	Н	Qty.
Ch 6,000 to Ch 165,000 Cum 1 183 5.30 0.25 242,48	24	cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per MORTH specifications Clause 602.with M40 @420Kg per cum Cement,C.A,0.67 cum F.A.044Cum						
Ch 6,000 to Ch 165,000 Cum 1 183 5.30 0.25 242,48		7a-Milagres Cross Road						
Ch.0.00 to 580 0.0 Cum 1 580 5.30 0.25 788.50		Ch.6.000 to Ch.165.000	Cum	1	183	5.30	0.25	242.48
19h-Arys Samaj Road			Cum	1	580	5.30	0.25	768 50
15b-Jumma Masjid Road			Odiii		000	0.00	0.20	700.00
Ch670.0 to Ch.970.0 Cum			Cum	1	595	5.30	0.25	788.38
20-Bendre Ferry Road			Cum	1	300	4.60	0.25	345.00
19a-Balmatta Road		20-Bendre Ferry Road						
Ch.0.00 to Ch.320.00			Cum	1	260	4.60	0.25	299.00
LHS								
20-Bendre Ferry Road		RHS						
RHS Ch.0.000 to Ch.170.0 Cum 1 170 1.00 0.25 42.50 Ch.188.0 to Ch.218.0 Cum 1 30 0.93 0.25 6.98 Ch.220 to Ch.270.0 Cum 1 50 2.00 0.25 25.00 Ch.570.0 to Ch.705.0 Cum 1 185 1.10 0.25 37.13 Ch.770.0 to Ch.870.0 Cum 1 100 1.27 0.25 37.13 Ch.770.0 to Ch.870.0 Cum 1 100 1.27 0.25 31.75 Ch.870.0 to Ch.925.0 Cum 1 140 0.88 0.25 31.75 Ch.870.0 to Ch.925.0 Cum 1 140 0.88 0.25 30.10 Cum 1 140 0.88 0.25 30.10 Cum 1 1 20 0.56 0.25 2.80 Ch.3930.0 to Ch.1070.0 Ch.125.0 to Ch.145.0 Cum 1 1 20 0.56 0.25 2.80 Ch.120.0 to Ch.445.0 Cum 1 1 20 0.56 0.25 2.80 Ch.120.0 to Ch.470.0 Cum 1 1 21 0.75 0.25 1.25 Ch.590.0 to Ch.545.0 Cum 1 1 15 1.27 0.25 1.65 Ch.590.0 to Ch.545.0 Cum 1 1 15 1.27 0.25 4.76 Ch.590.0 to Ch.590.0 Cum 1 1 15 1.27 0.25 4.76 Ch.590.0 to Ch.940.0 Cum 1 1 15 1.27 0.25 4.76 Ch.980.0 to Ch.940.0 Cum 1 1 125 1.61 0.25 50.31 Ch.180.0 to Ch.905.0 Cum 1 1 125 1.61 0.25 50.31 Ch.180.0 to Ch.905.0 Cum 1 1 150 1.63 0.25 72.45 Ch.950.0 to Ch.145.0 Cum 1 1 150 1.63 0.25 72.45 Ch.950.0 to Ch.300.0 Cum 1 1 125 1.61 0.25 50.31 Ch.915.0 to Ch.942.0 Cum 1 1 150 1.63 0.25 61.13 Ch.980.0 to Ch.350.0 Cum 1 1 25 0.07 0.25 12.89 Ch.950.0 to Ch.1100.0 Cum 1 1 20 0.26 1.80 Ch.980.0 to Ch.350.0 Cum 1 1 20 0.26 1.80 Ch.980.0 to Ch.350.0 Cum 1 1 20 0.26 1.80 Ch.980.0 to Ch.350.0 Cum 1 1 20 0.26 1.80 Ch.980.0 to Ch.350.0 Cum 1 1 20 0.22 0.25 1.10 Ch.980.0 to Ch.980.0 Cum 1 1 20 0.22 0.25 1.50 Ch.980.0 to Ch.980.0 Cum 1 1 50 0.26 0.25 0.35 Ch.980.0 to Ch.980.0 Cum 1 1 50 0.26 0.35 Ch.980.0 to Ch.980.0 Cum 1 1 50 0.26 0.35 Ch.980.0 to Ch.980.0 Cum 1 1 50 0.25 0.35 Ch.980.0 to Ch.980.0 Cum 1 1 50 0.25 0.35 Ch.980.0 to Ch.980.0 Cum 1 1 50 0.25 0.35 Ch.980.0 to Ch.980.0 Cum 1 1 50 0.25 0.35 Ch.980.0 to Ch.980.0 Cum 1 50 0.35 0.25 1.75 Ch.980.0 to Ch.980.0 Cum 1 50 0.35 0.25 1.75 Ch.980.0 to Ch.980.0 Cum 1 50 0.35 0.25 1.75 Ch.980.0 to Ch.980.0 Cum 1 50 0.35 0.25 1.75 Ch.980.0 to Ch.980.0 Cum 1 50 0.35 0.25 1.75 Ch.980.0 to Ch.980.0 Cum 1 50 0.35 0.25 1.75 Ch.980.0 to Ch.980.0 Cum 1 50 0.35 0.25 1.75 Ch.980.0 to Ch.980.0 Cum 1 50 0.35 0.25 1.75 Ch.		-	Cum	1	250	0.50	0.25	31.25
Ch.188.0 to Ch.218.0 Cum		RHS						
Ch.220.0 to Ch.270.0 Cum								
Ch.570.0 to Ch.705.0 Cum								
Ch.870.0 to Ch.925.0 Cum								
Ch.930.0 to Ch.1070.0 Cum								
LHS				· ·				
Ch.180.0 to Ch.200.00		LHS				0.00	0.20	0.00
Ch.260.0 to Ch.470.0 Cum 1 210 1.38 0.25 72.45 Ch.530.0 to Ch.545.0 Cum 1 15 1.27 0.25 4.76 Ch.590.0 to Ch.750.0 Cum 1 160 0.82 0.25 32.80 Ch.780.0 to Ch.905.0 Cum 1 125 1.61 0.25 50.31 Ch.915.0 to Ch.942.0 Cum 1 27 1.91 0.25 50.31 Ch.950.0 to Ch.1100.0 Cum 1 150 1.63 0.25 61.13 Road 7C LHS Image: Ch.000 to Ch.45.0 Cum 1 45 0.70 0.25 7.88 Ch.80.0 to Ch.205.0 Cum 1 125 0.07 0.25 7.88 Ch.80.0 to Ch.335.0 Cum 1 20 0.22 0.25 1.10 Ch.305.0 to Ch.335.0 Cum 1 20 0.22 0.25 1.50 Ch.410.0 Ch.660.0 Cum 1 5 1.20 0								
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Ch.780.0 to Ch.905.0 Cum		Ch.530.0 to Ch.545.0				1.27		4.76
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Ch.80.0 to Ch.90.0 Cum 1 10 0.15 0.25 0.38 Ch.95.0 to Ch.110.0 Cum 1 15 0.13 0.25 0.49 Ch.180.0 to Ch.210.0 Cum 1 30 0.23 0.25 1.73	<u> </u>							
Ch.95.0 to Ch.110.0 Cum 1 15 0.13 0.25 0.49 Ch.180.0 to Ch.210.0 Cum 1 30 0.23 0.25 1.73			Cum	1	10	0.15	0.25	0.38
		Ch.95.0 to Ch.110.0			15	0.13		0.49
	-	Ch.180.0 to Ch.210.0 Ch.280.0 to Ch.300.0	Cum Cum	1		0.23 0.13	0.25 0.25	1.73 0.65

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.350.0 to Ch.375.0	Cum	1	25	0.34		2.13
	Ch.410.0	Cum	1	5	0.53		0.66
	Ch.420.0	Cum	1	5	2.24		2.80
	Ch.570.0 RHS	Cum	1	5	0.62	0.25	0.78
	Ch.45.0 to Ch.75.0	Cum	1	30	0.34	0.25	2.55
	Ch.395.0 to ch.410.0	Cum	1	15	0.61		2.29
	Ch.485.0 to Ch.510.0	Cum	1	25	0.46		2.88
	Ch.545.0 to Ch.570.0	Cum	1	25	0.36		2.25
	Ch.630.0 to Ch.640.0	Cum	1	10	0.24	0.25	0.60
	Consider Panel Repairing for Existing CC Road @ 5%						
	7c-Attavar -Nandigudda Road	Cum	0.05	1021	7.00	0.30	107.21
	10-Kudumbi Garden (DBS) Road	Cum	0.05	375	6.20		34.88
	19a-Balmatta Road	Cum	0.05	330	15.00	0.30	74.25
	15a-Azzizuddin Road	Cum	0.05	717	6.00		64.53
	15b-Jumma Masjid Road	Cum	0.2	700	5.50		231.00
	20-Bendre Ferry Road Road Crossing for Utility RCC Ducts	Cum	0.2	800	10.00	0.30	480.00
1	7a-Milagres Cross Road	Cum	4	11	1.182	0	0.00
2	7c-Nandigudda Road	Cum	11	16	1.182	0.3	62.41
3	8-New Balmatta Road	Cum	12	12	1.182	0	0.00
4	10-Kudumbi Garden (DBS) Road	Cum	8	12	1.182		34.04
5	19a-Arya Samaj Road	Cum	6	10	1.182	0	0.00
6	19bBalmatta Road	Cum	4	26	1.182	0.3	36.88
7 8	15a-Azizuddin Road 15b-Jumma Masjid-Old Port Road	Cum Cum	8 16	11 6	1.182 1.182		31.20 34.04
9	20-Bendre Ferry Road	Cum	18.4	12	1.182	0.3	78.30
	20 20 miles i only i toda	Cum				Total	4302.34
25	Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealant manufacturer recommends and pouring the sealant all complete including material, manpower and as shown on drawing and as per MORTH specifications clause 602. (Non SOR Item)						
	7a-Milagres Cross Road Ch.6.000 to Ch.165.000	Dmt	1	41	5.3		217.30
	8-New Balmatta Road	Rmt Rmt	1	41	5.3		217.30
	Ch.0.00 to 580.00	Rmt	1	129	5.3		683.70
	19b-Arya Samaj Road	Rmt			0.0		000.70
	Ch.0.00 to 330.00	Rmt	1	132	5.3		699.60
	15b-Jumma Masjid Road	Rmt					
	Ch.720.0 to Ch.970.0	Rmt	1	67	4.6		308.20
	20-Bendre Ferry Road Ch.0.00 to Ch.260.00	Rmt Rmt	1	58	4.6		266.80
	19a-Balmatta Road	ixiiit		50	4.0		200.00
	Ch.0.00 to Ch.320.00						
	RHS	Rmt	1	65	0.50		32.50
	LHS	Rmt	1	56	0.50		28.00
<u> </u>	20-Bendre Ferry Road						
	RHS Ch.0.000 to Ch.170.0	Rmt	1	38	4		38.00
	Ch.188.0 to Ch.218.0	Rmt	1	- 38 7	0.93		6.51
	Ch.220.0 to Ch.270.0	Rmt	1	11	2		22.00
	Ch.570.0 to Ch.705.0	Rmt	1	30	1.1		33.00
	Ch.770.0 to Ch.870.0	Rmt	1	22	1.27		27.94
	Ch.870.0 to Ch.925.0	Rmt	1	12	1.2		14.40
	Ch.930.0 to Ch.1070.0	Rmt	1	31	0.86		26.66
	LHS Ch.125.0 to Ch.145.0	Rmt	1	4	0.56		2.24
	Ch.125.0 to Ch.145.0 Ch.180.0 to Ch.200.00	Rmt	1	3	0.56		2.24
	Ch.260.0 to Ch.470.0	Rmt	1	47	1.38		64.86
	Ch.530.0 to Ch.545.0	Rmt	1	3	1.27		3.81
	Ch.590.0 to Ch.750.0	Rmt	1	36	3.64		131.04
	Ch.780.0 to Ch.905.0	Rmt	1	28	1.61		45.08
	Ch.915.0 to Ch.942.0 Ch.950.0 to Ch.1100.0	Rmt Rmt	1	6 33	1.91 1.63		11.46 53.79

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Road 7C						
	LHS						
	Ch.0.00 to Ch.45.0	Rmt	1	10	0.7		7.00
	Ch.80.0 to Ch. 205.0 Ch.280.0 to Ch.300.0	Rmt Rmt	1	28 4	0.068 0.22		1.90 0.88
	Ch.305.0 to Ch.335.0	Rmt	1	7	0.22		5.88
	Ch.410.0	Rmt	1	1	1.2		1.20
	Ch.500.0 to Ch.660.0	Rmt	1	36	0.68		24.48
	Ch.680.0 to Ch.745.0	Rmt	1	14	0.26		3.64
	Ch.835.0 to Ch.880.0	Rmt	1	10	0.74		7.40
	Ch.910.0 to Ch.930.0	Rmt Rmt	1	4	0.07 0.68		0.28
	Ch.940.0 to Ch.950.0 Ch.960.0	Rmt	1	2	0.86		1.36 0.31
	RHS	IXIII	ı		0.51		0.51
	Ch.215.0 to Ch.230.0	Rmt	1	3	0.24		0.72
	Ch.350.0 to Ch.355.0	Rmt	1	1	0.75		0.75
	Ch.385.0 to Ch.430.0	Rmt	1	10	0.1		1.00
	Ch.460.0 to Ch.480.0	Rmt	1	4	0.35		1.40
	Ch.765.0 to Ch.820.0	Rmt	1	12	0.35		4.20
	Ch.980.0 to Ch.1004.0 Road 15a	Rmt	1	5	0.42		2.10
	LHS						
	Ch.80.0 to Ch.90.0	Rmt	1	2	0.15		0.30
	Ch.95.0 to Ch.110.0	Rmt	1	3	0.13		0.39
	Ch.180.0 to Ch.210.0	Rmt	1	7	0.23		1.61
	Ch.280.0 to Ch.300.0	Rmt	1		0.13		0.52
	Ch.350.0 to Ch.375.0	Rmt	1	6	0.34		2.04
	Ch.410.0	Rmt	1	1	0.53		0.53
	Ch.420.0 Ch.570.0	Rmt Rmt	1	1	2.24 0.62		2.24 0.62
	RHS	KIIIL	I	I	0.02		0.02
	Ch.45.0 to Ch.75.0	Rmt	1	7	0.34		2.38
	Ch.395.0 to ch.410.0	Rmt	1	3	0.61		1.83
	Ch.485.0 to Ch.510.0	Rmt	1	6	0.46		2.76
	Ch.545.0 to Ch.570.0	Rmt	1	6	0.36		2.16
	Ch.630.0 to Ch.640.0	Rmt	1	2	0.24		0.48
	Consider Panel Repairing for Existing CC Road @ 5%	Rmt	0.05	227	7		70.45
	7c-Attavar -Nandigudda Road 10-Kudumbi Garden (DBS) Road	Rmt Rmt	0.05 0.05	227 83	6.2		79.45 25.73
	19b-Balmatta Road	Rmt	0.05	73	15		54.75
	15a-Azzizuddin Road	Rmt	0.05				47.70
	15b-Jumma Masjid Road	Rmt	0.2	156	5.5		171.60
	20-Bendre Ferry Road	Rmt	0.2	178	10		356.00
					Total Qty.		3536.73
		Rmt		Consider 10	% Qty of To	otal	353.67
26	KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints longitudinal joints and expansion joints in concrete pavement using epoxy mortar concrete complete as per specifications.Morth specification No.3005.1 (SI No: 35.8 of KPWD 18-19)						
	Consider Same Qty of Joint Filling@5% of Joint Filler	Rmt			Total Qty.		17.68
27	Providing and laying at or near ground level factory made Median kerb stone of M-20 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per drawing. (Precast C.C. kerb stone shall be approved by Engineer-incharge). (RA Attached)						
	Consider Provisional Qty.	Rmt	20				20.00
	Consider Freezign Strategy.	Rmt	20			Sub Total	20.00
		No's		Total Qty.			50
	Vol of one kerb stone=0.102cum,Total vol of kerb=	Cum			-		5

Sr. No.	Description	Unit	No's	L	В	н	Qty.
28	Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of CC M20 and Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete						
	(SI No : 5.3 of KPWD 18-19)						
	7a-Milagres Cross Road RHS					1	
	Ch.10.000 to Ch.160.00	Rm	1	150			150.00
	7c-Attavar-Nandiguda Road						
	LHS						
	Ch.10.000 to Ch.130.00	Rm	1	120			120.00
	Ch.150.000 to Ch.410.00	Rm	1	260			260.00
	Ch.420.000 to Ch.480.00 Ch.480.000 to Ch.670.00	Rm Rm	1	250 250		+	250.00 250.00
	Ch.680.000 to Ch.720.00	Rm	1	250 40			40.00
	Ch.730.000 to Ch.800.00	Rm	1	70			70.00
	Ch.810.000 to Ch.850.00	Rm	1	40			40.00
	Ch.880.000 to Ch.950.00	Rm	1	70			70.00
	Ch.960.000 to Ch.1004.00	Rm	1	44	•		44.00
	RHS						
	Ch.10.000 to Ch.130.00	Rm	1	120		1	120.00
	Ch.140.000 to Ch.350.00	Rm	1	210			210.00
	Ch.360.000 to Ch.430.00 Ch.440.000 to Ch.610.00	Rm Rm	1	70 170			70.00 170.00
	Ch.610.000 to Ch.610.00	Rm	1	120		+	120.00
	Ch.740.000 to Ch.840.00	Rm	1	100			100.00
	Ch.870.000 to Ch.950.00	Rm	1	80		1	80.00
	Ch.960.000 to Ch.1004.00	Rm	1	44			44.00
	8-New Balmatta Road						
	LHS						
	Ch.30.000 to Ch.150.00	Rm	1	120			120.00
	Ch.520.000 to Ch.580.00	Rm	1	60			60.00
	RHS						
	Ch.30.000 to Ch.80.00	Rm	1	50			50.00
	Ch.90.000 to Ch.150.00 Ch.515.000 to Ch.560.00	Rm Rm	1	60 45			60.00 45.00
	10-Kudumbi Garden (DBS)Road						
	LHS						
	Ch.10.000 to Ch.90.00	Rm	1	80			80.00
	Ch.90.000 to Ch.135.00 Ch.140.000 to Ch.250.00	Rm Rm	1	45 110			45.00 110.00
	Ch.140.000 to Ch.340.00	Rm	1	200			200.00
	RHS	IXIII	'	200		1	200.00
	Ch.10.000 to Ch.140.00	Rm	1	130			130.00
	Ch.190.000 to Ch.210.00	Rm	1	20			20.00
	Ch.220.000 to Ch.360.00	Rm	1	140			140.00
	19b-Balmatta Road						
	LHS						
	Ch.30.000 to Ch.300.00	Rm	1	270		1	270.00
	19a						
	LHS Ch.340.000 to Ch.350.00	Rm	1	10		1	10.00
	Ch.370.000 to Ch.390.00	Rm	1	20			20.00
	Ch.390.000 to Ch.570.00	Rm	1	180			180.00
	Ch.590.000 to Ch.620.00	Rm	1	30			30.00
	Ch.700.000 to Ch.840.00	Rm	1	140			140.00
	RHS						
	Ch.30.000 to Ch.300.00	Rm	1	270			270.00
	Ch.340.000 to Ch.630.00 Ch.700.000 to Ch.845.00	Rm Rm	1	290 145			290.00 145.00
	G11.7 00.000 to G11.043.00	KIII	1	145			145.00
	15a-Azizuddin Road LHS						
	Ch.00.000 to Ch.90.00	Rm	1	90		1	90.00
	Ch.100.000 to Ch.220.00	Rm	1	120		1	120.00
	Ch.220.000 to Ch.300.00	Rm	1	80			80.00
	Ch.310.000 to Ch.420.00	Rm	1	110			110.00
	Ch.420.000 to Ch.490.00	Rm	1	70			70.00
	Ch.490.000 to Ch.570.00	Rm	1	80			80.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.580.000 to Ch.640.00	Rm	1	60			60.00
	Ch.650.000 to Ch.710.00	Rm	1	60			60.00
	RHS Ch.00.000 to Ch.90.00	Rm	1	90			90.00
	Ch.100.000 to Ch.220.00	Rm	1	220			220.00
	Ch.220.000 to Ch.320.00	Rm	1	100			100.00
	Ch.330.000 to Ch.410.00	Rm	1	80			80.00
	Ch.420.000 to Ch.570.00	Rm	1	150			150.00
	Ch.580.000 to Ch.710.00	Rm	1	130			130.00
	45h harras Masiid Old Bard Baad						
	15b-Jumma Masjid-Old Port Road						
	Ch.00.000 to Ch.90.00	Rm	1	90			90.00
	Ch.100.000 to Ch.220.00	Rm	1	120			120.00
	Ch.220.000 to Ch.300.00	Rm	1	80			80.00
	Ch.310.000 to Ch.420.00	Rm	1	110			110.00
	Ch.420.000 to Ch.490.00	Rm	1	70			70.00
	Ch.490.000 to Ch.570.00	Rm	1	80			80.00
	Ch.580.000 to Ch.640.00 Ch.650.000 to Ch.710.00	Rm Rm	1	60 60			60.00 60.00
	RHS	KIII	I	60			60.00
	Ch.00.000 to Ch.90.00	Rm	1	90			90.00
	Ch.100.000 to Ch.220.00	Rm	1	120			120.00
	Ch.220.000 to Ch.320.00	Rm	1	100			100.00
	Ch.330.000 to Ch.410.00	Rm	1	80			80.00
	Ch.420.000 to Ch.570.00	Rm	1				150.00
	Ch.580.000 to Ch.710.00	Rm	1	130			130.00
	20 Pandra Farmi Pand						
	20-Bendre Ferry Road LHS						
	Ch.00.000 to Ch.80.00	Rm	1	80			80.00
	Ch.80.000 to Ch.140.00	Rm	1	60			60.00
	Ch.180.000 to Ch.220.00	Rm	1				40.00
	Ch.230.000 to Ch.250.00	Rm	1	20			20.00
	Ch.250.000 to Ch.530.00	Rm	1	280			280.00
	RHS						
	Ch.530.000 to Ch.580.00 Ch.705.000 to Ch.1040.00	Rm Rm	1	50 335			50.00 335.00
	C11.703.000 to C11.1040.00	KIII	I	333		Total=	8268.00
	Deduct Resuse Kerb Stone Qty.	Rm	-1	2234.50		i otai=	-2234.50
							6033.50
	C= A+B/0.45m(length of one Kerb Stone)	Nos				Total(C)	13408.00
	Raised Kerb at Level Footpath (Discontinuos Kerb)	_					
	Total Length Kerb Stone = Total length of Level Footpath / 2	Cum	1	1825	0.15	0.35	95.81
	Vol of 1 Kerb=0.028 cum, Total Vol.=	Cum					471.24
29	Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,made out of CC M20 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (SI No: 5.3 of KPWD 18-19)						
	7a-Milagres Cross Road						
	RHS	_					
	Ch.10.000 to Ch.160.00	Rm	1	150			150.00
-	7c-Attavar-Nandiguda Road						
	LHS						
	Ch.10.000 to Ch.130.00	Rm	1	120	-		120.00
	Ch.150.000 to Ch.410.00	Rm	1	260			260.00
	Ch.420.000 to Ch.480.00	Rm	1	250			250.00
	Ch.480.000 to Ch.670.00 Ch.680.000 to Ch.720.00	Rm Pm	1	250 40			250.00 40.00
	Ch.730.000 to Ch.800.00	Rm Rm	1	70			70.00
	Ch.810.000 to Ch.850.00	Rm	1	40			40.00
	Ch.880.000 to Ch.950.00	Rm	1	70			70.00
	Ch.960.000 to Ch.1004.00	Rm	1	44			44.00
	RHS						
	Ch.10.000 to Ch.130.00	Rm	1	120			120.00
	Ch.140.000 to Ch.350.00	Rm	1	210			210.00
<u> </u>	Ch.360.000 to Ch.430.00	Rm	1	70			70.00
	Ch.440.000 to Ch.610.00	Rm	1	170		L	170.00

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.610.000 to Ch.730.00	Rm	1	120			120.00
	Ch.740.000 to Ch.840.00	Rm	1	100			100.00
	Ch.870.000 to Ch.950.00	Rm	1	80			80.00
	Ch.960.000 to Ch.1004.00	Rm	1	44			44.00
	8-New Balmatta Road						
	LHS						
	Ch.30.000 to Ch.150.00	Rm	1	120			120.00
	Ch.520.000 to Ch.580.00	Rm	1	60			60.00
	RHS						
	Ch.30.000 to Ch.80.00	Rm	1	50			50.00
	Ch.90.000 to Ch.150.00	Rm	1	60			60.00
	Ch.515.000 to Ch.560.00	Rm	1	45			45.00
	10-Kudumbi Garden (DBS)Road						
	LHS						
	Ch.10.000 to Ch.90.00	Rm	1	80			80.00
	Ch.90.000 to Ch.135.00	Rm	1	45			45.00
	Ch.140.000 to Ch.250.00	Rm	1	110			110.00
	Ch.140.000 to Ch.340.00	Rm	1	200			200.00
	RHS						
	Ch.10.000 to Ch.140.00	Rm	1	130		1	130.00
	Ch.190.000 to Ch.210.00	Rm	1	20			20.00
	Ch.220.000 to Ch.360.00	Rm	1	140		1	140.00
	3.1.223.000 to 311.000.00	13(1)	 	170		 	140.00
	19b-Balmatta Road					<u> </u>	1
	LHS	+				 	1
	Ch.30.000 to Ch.300.00	Rm	1	270			270.00
	19a	KIII	'	270			270.00
	LHS						
		D	1	40			40.00
	Ch.340.000 to Ch.350.00	Rm	1	10			10.00
	Ch.370.000 to Ch.390.00	Rm	1	20			20.00
	Ch.390.000 to Ch.570.00	Rm	1	180			180.00
	Ch.590.000 to Ch.620.00	Rm	1	30			30.00
	Ch.700.000 to Ch.840.00	Rm	1	140			140.00
	RHS						
	Ch.30.000 to Ch.300.00	Rm	1	270			270.00
	Ch.340.000 to Ch.630.00	Rm	1	290			290.00
	Ch.700.000 to Ch.845.00	Rm	1	145			145.00
	15a-Azizuddin Road						
	LHS						
	Ch.00.000 to Ch.90.00	Rm	1	90			90.00
	Ch.100.000 to Ch.220.00	Rm	1	120			120.00
	Ch.220.000 to Ch.300.00	Rm	1	80			80.00
	Ch.310.000 to Ch.420.00	Rm	1	110			110.00
	Ch.420.000 to Ch.490.00	Rm	1	70			70.00
	Ch.490.000 to Ch.570.00	Rm	1	80			80.00
	Ch.580.000 to Ch.640.00	Rm	1	60			60.00
	Ch.650.000 to Ch.710.00	Rm	1	60			60.00
	RHS						
	Ch.00.000 to Ch.90.00	Rm	1	90			90.00
	Ch.100.000 to Ch.220.00	Rm	1	220			220.00
	Ch.220.000 to Ch.320.00	Rm	1	100			100.00
	Ch.330.000 to Ch.410.00	Rm	1	80			80.00
	Ch.420.000 to Ch.570.00	Rm	1	150			150.00
	Ch.580.000 to Ch.710.00	Rm	1	130			130.00
	15b-Jumma Masjid-Old Port Road						
	LHS						
	Ch.00.000 to Ch.90.00	Rm	1	90			90.00
	Ch.100.000 to Ch.220.00	Rm	1	120			120.00
	Ch.220.000 to Ch.300.00	Rm	1	80			80.00
	Ch.310.000 to Ch.420.00	Rm	1	110			110.00
	Ch.420.000 to Ch.490.00	Rm	1	70			70.00
	Ch.490.000 to Ch.570.00	Rm	1	80		1	80.00
	Ch.580.000 to Ch.640.00	Rm	1	60			60.00
	Ch.650.000 to Ch.710.00	Rm	1	60		 	60.00
	RHS	13111		00		 	30.00
	Ch.00.000 to Ch.90.00	D.m.	4	90		 	00.00
	Ch.100.000 to Ch.90.00 Ch.100.000 to Ch.220.00	Rm Rm	1	120		 	90.00
				120		 	
	Ch.220.000 to Ch.320.00	Rm	1			 	100.00
	Ch.330.000 to Ch.410.00	Rm	1	80		 	80.00
1	Ch.420.000 to Ch.570.00	Rm	1	150			150.00

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.580.000 to Ch.710.00	Rm	1	130			130.00
	20-Bendre Ferry Road						
	LHS						
	Ch.00.000 to Ch.80.00	Rm	1	80			80.00
	Ch.80.000 to Ch.140.00	Rm	1	60 40			60.00
	Ch.180.000 to Ch.220.00 Ch.230.000 to Ch.250.00	Rm Rm	1	20			40.00 20.00
	Ch.250.000 to Ch.530.00	Rm	1	280			280.00
	RHS						200.00
	Ch.530.000 to Ch.580.00	Rm	1	50			50.00
	Ch.705.000 to Ch.1040.00	Rm	1	335			335.00
	Total Qty.	Rm Nos.					8268 18373
	C= A+B/0.45m(length of one Kerb Stone) Total Vol.= 0.0118	Cum					217
	1000 700-00110						
	Reusing existing kerb stone obtained from dismantaling of existing						
	footpath or by other dismantaling work and laying at or near						
	ground level in position to the required line, level and curvature, jointed with						
	cement mortar 1:3 (1 cement: 3 coarse sand), including making						
	joints with or without						
	grooves (thickness of joints except at sharp curve shall not to						
30	more than 5mm),						
	including transportation to site from stack yard, making drainage						
	opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be						
	measured for payment).						
	(Precast C.C. kerb stone shall be approved by Engineer-in-						
	charge).						
	Consider 50% Qty. Of Existing Dismantaled Kerb available on Site	Dunt	50%	4469.00			2224.50
		Rmt	50%	4469.00			2234.50
	KSRRB 800-1. Painting two coats after filling the surface with						
	synthetic enamel paint in approved shades on new plastered						
31	concrete surfaces, with materials, labour complete as per						
	MORTH specifications section 8.						
	(SI No : 24.1 of KPWD 18-19)						
	7a-Milagres Cross Road						
	RHS Ch.10.000 to Ch.160.00	Sqm	1	150		0.27	39.75
	G1.10.000 to G1.100.00	Oqiii		100		0.21	33.13
	7c-Attavar-Nandiguda Road						
	LHS						
	Ch.10.000 to Ch.130.00	Sqm	1	120		0.27	31.80
	Ch.150.000 to Ch.410.00 Ch.420.000 to Ch.480.00	Sqm Sqm	1	260 250		0.27 0.27	68.90 66.25
	Ch.480.000 to Ch.670.00	Sqm	1	250		0.27	66.25
	Ch.680.000 to Ch.720.00	Sqm	1	40		0.27	10.60
	Ch.730.000 to Ch.800.00	Sqm	1	70		0.27	18.55
	Ch.810.000 to Ch.850.00	Sqm	1	40		0.27	10.60
	Ch.880.000 to Ch.950.00	Sqm	1	70 44		0.27 0.27	18.55
	Ch.960.000 to Ch.1004.00	Sqm	1	44		0.27	11.66
	Ch.10.000 to Ch.130.00	Sqm	1	120		0.27	31.80
	Ch.140.000 to Ch.350.00	Sqm	1	210		0.27	55.65
	Ch.360.000 to Ch.430.00	Sqm	1	70	-	0.27	18.55
	Ch.440.000 to Ch.610.00	Sqm	1	170		0.27	45.05
	Ch.610.000 to Ch.730.00 Ch.740.000 to Ch.840.00	Sqm Sqm	1	120 100		0.27 0.27	31.80 26.50
	Ch.870.000 to Ch.840.00 Ch.870.000 to Ch.950.00	Sqm	1	80		0.27	26.50
	Ch.960.000 to Ch.1904.00	Sqm	1	44		0.27	11.66
	8-New Balmatta Road	<u> </u>					
	LHS	C		100		0.07	04.00
	Ch.30.000 to Ch.150.00 Ch.520.000 to Ch.580.00	Sqm Sqm	1	120 60		0.27 0.27	31.80 15.90
	RHS	Sqiii	0	0		0.27	0.00
	Ch.30.000 to Ch.80.00	Sqm	1	50		0.27	13.25
	Ch.90.000 to Ch.150.00	Sqm	1	60		0.27	15.90
	Ch.515.000 to Ch.560.00	Sqm	1	45		0.27	11.93
	10 K 110 1 (DEC)						
	10-Kudumbi Garden (DBS)Road						

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	LHS						
	Ch.10.000 to Ch.90.00	Sqm	1	80		0.27	21.20
	Ch.90.000 to Ch.135.00	Sqm	1	45		0.27	11.93
	Ch.140.000 to Ch.250.00	Sqm	1	110		0.27	29.15
	Ch.140.000 to Ch.340.00	Sqm	1	200		0.27	53.00
	RHS	Cam	1	130		0.27	24.45
	Ch.10.000 to Ch.140.00 Ch.190.000 to Ch.210.00	Sqm	1	20		0.27 0.27	34.45 5.30
	Ch.220.000 to Ch.210.00	Sqm Sqm	1	140		0.27	37.10
	C1.220.000 to C1.360.00	Sqiii	1	140		0.27	37.10
	19b-Balmatta Road						
	LHS						
	Ch.30.000 to Ch.300.00	Sqm	1	270		0.27	71.55
	19a	- Oq		2.0		0.27	7 1.00
	LHS						
	Ch.340.000 to Ch.350.00	Sqm	1	10		0.27	2.65
	Ch.370.000 to Ch.390.00	Sqm	1	20		0.27	5.30
	Ch.390.000 to Ch.570.00	Sqm	1	180		0.27	47.70
	Ch.590.000 to Ch.620.00	Sqm	1	30		0.27	7.95
	Ch.700.000 to Ch.840.00	Sqm	1	140		0.27	37.10
	RHS						-
	Ch.30.000 to Ch.300.00	Sqm	1	270		0.27	71.55
	Ch.340.000 to Ch.630.00	Sqm	1	290		0.27	76.85
	Ch.700.000 to Ch.845.00	Sqm	1	145		0.27	38.43
							-
	15a-Azizuddin Road					<u> </u>	
	LHS						
	Ch.00.000 to Ch.90.00	Sqm	1	90		0.27	23.85
	Ch.100.000 to Ch.220.00	Sqm	1	120		0.27	31.80
	Ch.220.000 to Ch.300.00	Sqm	1	80		0.27	21.20
	Ch.310.000 to Ch.420.00	Sqm	1	110		0.27	29.15
	Ch.420.000 to Ch.490.00	Sqm	1	70		0.27	18.55
	Ch.490.000 to Ch.570.00	Sqm	1	80		0.27	21.20
	Ch.580.000 to Ch.640.00	Sqm	1	60		0.27	15.90
	Ch.650.000 to Ch.710.00	Sqm	1	60		0.27	15.90
	RHS						
	Ch.00.000 to Ch.90.00	Sqm	1	90		0.27	23.85
	Ch.100.000 to Ch.220.00	Sqm	1	220		0.27	58.30
	Ch.220.000 to Ch.320.00	Sqm	1	100		0.27	26.50
	Ch.330.000 to Ch.410.00	Sqm	1	80		0.27	21.20
	Ch.420.000 to Ch.570.00	Sqm	1			0.27	39.75
	Ch.580.000 to Ch.710.00	Sqm	1	130		0.27	34.45
	15b-Jumma Masjid-Old Port Road						
	LHS						
	Ch.00.000 to Ch.90.00	Sqm	1	90		0.27	23.85
	Ch.100.000 to Ch.220.00	Sqm	1	120		0.27	31.80
	Ch.220.000 to Ch.300.00	Sqm	1	80		0.27	21.20
	Ch.310.000 to Ch.420.00	Sqm	1	110		0.27	29.15
	Ch.420.000 to Ch.490.00	Sqm	1	70		0.27	18.55
	Ch.490.000 to Ch.570.00	Sqm	1	80		0.27	21.20
	Ch.580.000 to Ch.640.00	Sqm	1	60		0.27	15.90
	Ch.650.000 to Ch.710.00	Sqm	1	60		0.27	15.90
	RHS	0		00		0.07	22.05
	Ch.00.000 to Ch.90.00	Sqm	1	90		0.27	23.85
	Ch.100.000 to Ch.220.00	Sqm	1	120		0.27	31.80
	Ch.220.000 to Ch.320.00	Sqm	1	100 80		0.27	26.50
	Ch.330.000 to Ch.410.00	Sqm Sqm	1	150		0.27 0.27	21.20
	Ch.420.000 to Ch.570.00		1	130		0.27	39.75 34.45
	Ch.580.000 to Ch.710.00	Sqm	1	130		0.27	34.45
	20-Bendre Ferry Road						
	LHS						
	Ch.00.000 to Ch.80.00	Sqm	1	80		0.27	21.20
	Ch.80.000 to Ch.140.00	Sqm	1	60		0.27	15.90
	Ch.180.000 to Ch.140.00 Ch.180.000 to Ch.220.00	Sqm	1	40		0.27	10.60
	Ch.230.000 to Ch.220.00 Ch.230.000 to Ch.250.00	Sqm	1	20		0.27	5.30
-	Ch.250.000 to Ch.250.00 Ch.250.000 to Ch.530.00	Sqm	1	280		0.27	74.20
	RHS	Sqiii	0			0.27	0.00
	_						13.25
	Ch 530 000 to Ch 590 00	C~~				(1, 1) /	
	Ch.530.000 to Ch.580.00	Sqm	1	50 335		0.27	
	Ch.530.000 to Ch.580.00 Ch.705.000 to Ch.1040.00	Sqm Sqm Sqm	1	335	Total Qty.	0.27	88.78 2191.02

32	P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting. (Rate analysis attached) Power Duct Chambers	Nos.				
33				l		
33	D/F FDD D		2	391		782.00
33	D/E EDD D	Nos.			Total Qty.	782.00
	P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached)					
	SWD Road 7a			Cidoo	2.00	
	Node-CO-504			Sides	2.00	
	Base	Rm	1	26.4		26.40
	Node-CO-505 Base	Rm	1	137.5		137.50
	Dase	IXIII	1	137.3		137.30
	Road 7c			Sides	2.00	
	Node-CO-64 Base	Rm	2	127.7		255.40
	Node-CO-65	TVIII		127.7		
	Base	Rm	2	125.6		251.20
	Node-CO-66 Base	Rm	2	67.9		135.80
	Node-CO-67					
	Base Node-CO-68	Rm	2	34.8		69.60
	Base	Rm	2	29.4		58.80
	Node-CO-69	_		20.0		70.00
	Base Node-CO-70	Rm	2	39.8		79.60
	Base	Rm	2	36.5		73.00
	Node-CO-80 Base	Rm	2	73.8		147.60
	Node-CO-81	KIII		13.0		147.00
	Base	Rm	2	40.5		81.00
	Node-CO-82 Base	Rm	2	31.7		63.40
	Node-CO-78	TUIT				00.40
	Base	Rm	2	22.3		44.60
	Node-CO-77 Base	Rm	2	23.6		47.20
	Node-CO-79					
	Base	Rm	2	33.6		67.20
	Road 8			Sides	1.00	
	Node-CO-35	D	4	75.0		75.00
	Base Node-CO-36	Rm	1	75.6		75.60
	Base	Rm	1	33.5		33.50
	Node-CO-37 Base	Rm	1	31		31.00
	Node-CO-38	13111				 31.00
	Base	Rm	1	48.9		48.90
	Node-CO-39 Base	Rm	1	99.9		99.90
	Node-CO-40					
	Base Node-CO-41	Rm	1	95.4		95.40
	Base	Rm	1	28		28.00
	Node-CO-42					
	Base Node-CO-43	Rm	1	46.1		46.10
	Base	Rm	1	17		17.00
	Node-CO-44	Dm	4	247		24.70
	Base Node-CO-45	Rm	1	34.7		34.70
	Base	Rm	1	34.8		34.80
	Node-CO-46 Base	Rm	1	9.3		 9.30
	Node-CO-47	73111		9.3		 3.30
	Base	Rm	1	14.2		 14.20
	Road 19			Sides	2.00	+
	Node-CO-163			3.000	2.00	1

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Base	Rm	2	24.3			48.60
	Node-CO-164 Base	Rm	2	29.9			59.80
	Node-CO-165						
	Base Node-CO-166	Rm	2	43.4			86.80
	Base	Rm	2	20.9			41.80
	Node-CO-167	Des	2	22.5			67.00
	Base Node-CO-168	Rm	2	33.5			67.00
	Base	Rm	2	47.3			94.60
	Node-CO-169 Base	Rm	2	68.4			136.80
	Node-CO-170						
	Base Node-CO-171	Rm	2	120.2			240.40
	Base	Rm	2	70.8			141.60
	Node-CO-172 Base	Rm	2	103.2			206.40
	Dase	KIII					200.40
	Road-15a			Sides	2.00		
	Node-CO-182 Base	Rm	1	27.2			27.20
	Node-CO-192						
	Base Node-CO-481	Rm	1	59.8			59.80
	Base	Rm	1	28.1			28.10
	Node-CO-482 Base	Rm	1	58.7			58.70
	Node-CO-190	IXIII					30.70
	Base Node-CO-184	Rm	1	62.8			62.80
	Base	Rm	1	151.1			151.10
	Node-CO-195	Rm	1	170			470.00
	Base Node-CO-187	KIII	'	170			170.00
	Base	Rm	1	80.5			80.50
	Node-CO-188 Base	Rm	1	43.1			43.10
	Node-CO-189			27.4			
	Base Node-CO-483	Rm	1	97.4			97.40
	Base	Rm	1	64.4			64.40
	Node-CO-484 Base	Rm	1	120.6			120.60
	Node-CO-485						
	Base Node-CO-486	Rm	1	30.5			30.50
	Base	Rm	1	169.2			169.20
	45- New Prein			4			
1	15a-New Drain MH-524		 	1			+
	Base	Rm	1	27.7			27.70
2	MH-525		 				+
	Base	Rm	1	59.4			59.40
3	MH-527		-				+
	Base	Rm	1	62.8			62.80
4	MH-528						
7	Base	Rm	1	120.5			120.50
5	MH-529						<u> </u>
	Base	Rm	1	29.7			29.70
-	MH 520						
6	MH-530 Base	Rm	1	170.8			170.80
				1 2 3 6			1
7	MH-532 Base	Rm	1	80.5			80.50
		13111	<u> </u>	00.0			30.00
8	MH-533 Base	Rm	1	43.1			43.10
<u> </u>	μασο	IXIII	<u> </u>	43.1			1 4 3.10

Sr. No.	Description	Unit	No's	L	В	н	Qty.
9	MH-534						
	Base	Rm	1	97.4			97.40
	Road 15b			Sides	1.00		
	Node-CO-467	Des	1				70.00
	Base Node-CO-469	Rm	1	79.8			79.80
	Base	Rm	1	23.8			23.80
	Node-CO-470 Base	Rm	1	62.6			62.60
	Node-CO-473 Base	Rm	1	30.4			30.40
	Node-CO-474	KIII	1	30.4			30.40
	Base Node-CO-472	Rm	1	62			62.00
	Base	Rm	1	32			32.00
	Node-CO-468 Base	Rm	1	28.4			28.40
	Node-CO-495	KIII	'	20.4			20.40
	Base	Rm	1	88.4			88.40
	Node-CO-496 Base	Rm	1	76.4			76.40
	Node-CO-499	Rm	1	4.2			
	Base Node-CO-497	KIII					4.20
	Base	Rm	1	87.6			87.60
	Node-CO-498 Base	Rm	1	75.9			75.90
	Node-CO-494	Des	1	77.0			77.00
	Base Node-CO-503	Rm	1	77.3			77.30
	Base	Rm	1	76.6			76.60
	Node-CO-501 Base	Rm	1	32.5			32.50
	Node-CO-502	_					50.00
	Base Node-CO-492	Rm	1	56.2			56.20
	Base	Rm	1	30.9			30.90
	Node-CO-493 Base	Rm	1	56.5			56.50
	Node-CO-500	D	4				
	Base Node-CO-491	Rm	1	32.4			32.40
	Base	Rm	1	32			32.00
	Node-CO-490 Base	Rm	1	24.8			24.80
	Node-CO-488	Des	1	20			00.00
	Base Node-CO-489	Rm	1	39			39.00
	Base	Rm	1	44.3			44.30
	Node-CO-487 Base	Rm	1	23.2			23.20
	Node-CO-221	Des	1	404.2			404.00
	Base	Rm	1	101.3			101.30
	Road 20			Sides	2.00		
	Node-CO-455 Base	Rm	2	87			174.00
	Node-CO-456	D		05.0			
	Base Node-CO-457	Rm	2	95.8			191.60
	Base	Rm	2	82.7			165.40
	Node-CO-458 Base	Rm	2	105.2			210.40
	Node-CO-459	D					
	Base Node-CO-460	Rm	2	62.5			125.00
	Base	Rm	2	48.1			96.20
	Node-CO-461 Base	Rm	2	47.8			95.60
	Node-CO-462						
	Base Node-CO-463	Rm	2	18.3			36.60

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Base	Rm	2	19.9			39.80
	Node-CO-464 Base	Rm	2	15.8			31.60
	Node-CO-479	KIII		13.0			31.00
	Base	Rm	2	244.3			488.60
	Node-CO-480						
	Base	Rm	2	170.7			341.40
	Node-CO-477						
	Base	Rm	2	74.2			148.40
	Node-CO-348 Base	Rm	2	15.4			30.80
	Node-CO-349	KIII		15.4			30.60
	Base	Rm	2	75.2			150.40
		Rm	_				8690.10
	Consider Chamber @10m C/C distance	Nos.				•	869.00
	Total no. Of covers	Nos.		Total Qty.			869.00
34	KSRRB M300- Wrought iron and mild steel welded work KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, gratings with grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications.(KPWD,18-19,SI.No.19.97)						
	Flush Footpath with Carriageway						
	7a						
	LHS Ch.20.000 to Ch.70.00	Rm	1	50			F0.00
	Ch.75.000 to Ch.160.00	Rm	1	85			50.00 85.00
	7c	13111		00			00.00
	LHS						
	Ch.850.000 to Ch.875.00	Rm	1	25			25.00
	RHS						
	Ch.260.000 to Ch.280.00	Rm	1	20			20.00
	Ch.320.000 to Ch.350.00	Rm	1				30.00
	Ch.620.000 to Ch.680.00 Ch.810.000 to Ch.840.00	Rm Rm	1				60.00 30.00
	Ch.850.000 to Ch.840.00 Ch.850.000 to Ch.875.00	Rm	1				25.00
	Ch.900.000 to Ch.920.00	Rm	1				20.00
	8						
	LHS						
	Ch.150.000 to Ch.190.00	Rm	1				40.00
	Ch.190.000 to Ch.200.00	Rm	1	_			10.00
	Ch.210.000 to Ch.270.00	Rm	1				60.00
	Ch.270.000 to Ch.510.00	Rm	1	240			240.00
	RHS Ch.150.000 to Ch.200.00	Rm	1	50			50.00
	Ch.220.000 to Ch.300.00	Rm	1				80.00
	Ch.310.000 to Ch.320.00	Rm	1				10.00
	Ch.330.000 to Ch.350.00	Rm	1				20.00
	Ch.360.000 to Ch.400.00	Rm	1				40.00
	Ch.410.000 to Ch.510.00	Rm	1	100			100.00
	10						
	LHS	-	4	00			00.00
	Ch.150.000 to Ch.180.00	Rm	1	30			30.00
	LHS						
	Ch.625.000 to Ch.700.00	Rm	1	75			75.00
	Ch.850.000 to Ch.920.00	Rm	1	70			70.00
	RHS		·	. 0			2.30
	Ch.625.000 to Ch.700.00	Rm	1	75			75.00
	Ch.800.000 to Ch.830.00	Rm	1				30.00
	Ch.850.000 to Ch.920.00	Rm	1	70			70.00
	15b						
	LHS	D~	4	00			00.00
	Ch.00.000 to Ch.80.00 Ch.90.000 to Ch.200.00	Rm Rm	1				80.00 110.00
	Ch.210.000 to Ch.200.00 Ch.210.000 to Ch.320.00	Rm	1				110.00
	Ch.320.000 to Ch.420.00	Rm	1				100.00
	Ch.430.000 to Ch.500.00	Rm	1				70.00
	Ch.510.000 to Ch.530.00	Rm	1	20			20.00
	Ch.510.000 to Ch.580.00	Rm	1	70			70.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.590.000 to Ch.720.00	Rm	1	30			30.00
	Ch.750.000 to Ch.720.00 Ch.750.000 to Ch.920.00	Rm	1	170			170.00
	RHS	1 (111		170			170.00
	Ch.00.000 to Ch.80.00	Rm	1	80			80.00
	Ch.80.000 to Ch.210.00	Rm	1	130			130.00
	Ch.210.000 to Ch.270.00	Rm	1	60			60.00
	Ch.270.000 to Ch.280.00	Rm	1	10			10.00
	Ch.280.000 to Ch.320.00	Rm	1	40			40.00
	Ch.330.000 to Ch.470.00	Rm	1	140			140.00
	Ch.480.000 to Ch.500.00	Rm	1	20			20.00
	Ch.510.000 to Ch.680.00	Rm	1	170			170.00
	Ch.690.000 to Ch.750.00	Rm	1	60			60.00
	Ch.750.000 to Ch.800.00 Ch.800.000 to Ch.910.00	Rm	1	50 90			50.00 90.00
	20	Rm	1	90			90.00
	LHS						
	Ch.150.000 to Ch.180.00	Rm	1	30			30.00
	Ch.530.000 to Ch.550.00	Rm	1	20			20.00
	Ch.560.000 to Ch.750.00	Rm	1	190			190.00
	Ch.760.000 to Ch.900.00	Rm	1	140			140.00
	Ch.920.000 to Ch.940.00	Rm	1	20			20.00
	Ch.950.000 to Ch.1100.00	Rm	1	150			150.00
	RHS						
	Ch.45.000 to Ch.80.00	Rm	1	35			35.00
	Ch.150.000 to Ch.180.00	Rm	1	30			30.00
	Ch.200.000 to Ch.260.00	Rm	1				60.00
	Ch.685.000 to Ch.705.00	Rm	1	20			20.00
	Total No. Of Gratings	Nos.					730.00
		Nos.		_	Total Qty.		
			Nos.	Kg/No.	Kg		Quintal
	Consider 5% of Qty		37.00	150	5550		55.5
35	level footpath. (Rate analysis attached) Flush Footpath with Carriageway						
	7a						
	LHS						
	Ch.20.000 to Ch.70.00	Rm	1				50.00
	Ch.75.000 to Ch.160.00	Rm	1	85			85.00
	7c						
	LHS		4	0.5			07.00
	Ch.850.000 to Ch.875.00	Rm	1	25			25.00
	RHS	Dm	1	20			20.00
	Ch.260.000 to Ch.280.00 Ch.320.000 to Ch.350.00	Rm Rm	1	20 30			20.00 30.00
	Ch.620.000 to Ch.680.00	Rm	1				60.00
	Ch.810.000 to Ch.840.00	Rm	1	30			30.00
	Ch.850.000 to Ch.875.00	Rm	1	25			25.00
	Ch.900.000 to Ch.920.00	Rm	1				20.00
	8						
	LHS						
	Ch.150.000 to Ch.190.00	Rm	1	40			40.00
	Ch.190.000 to Ch.200.00	Rm	1				10.00
	Ch.210.000 to Ch.270.00	Rm	1				60.00
	Ch.270.000 to Ch.510.00	Rm	1	240			240.00
	RHS						
	Ch.150.000 to Ch.200.00	Rm	1	50			50.00
	Ch.220.000 to Ch.300.00	Rm	1	80			80.00
	Ch.310.000 to Ch.320.00	Rm	1	10			10.00
<u> </u>	Ch.330.000 to Ch.350.00	Rm	1	20			20.00
	Ch.360.000 to Ch.400.00	Rm	1	40 100			40.00
-	Ch.410.000 to Ch.510.00	Rm	1	100			100.00
	LHS						1
	Ch.150.000 to Ch.180.00	Rm	1	30			30.00
	19	IXIII		30			30.00
	LHS						
	Ch.625.000 to Ch.700.00	Rm	1	75			75.00
	Ch.850.000 to Ch.920.00	Rm	1	70			70.00
	RHS						
	Ch.625.000 to Ch.700.00	Rm	1	75			75.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.800.000 to Ch.830.00	Rm	1	30			30.00
	Ch.850.000 to Ch.920.00	Rm	1	70			70.00
	15b						
	LHS						
	Ch.00.000 to Ch.80.00	Rm	1	80			80.00
	Ch.90.000 to Ch.200.00	Rm	1	110			110.00
	Ch.210.000 to Ch.320.00	Rm	1	110			110.00
	Ch.320.000 to Ch.420.00	Rm	1	100		1	100.00
	Ch.430.000 to Ch.500.00	Rm	1	70			70.00
	Ch.510.000 to Ch.530.00	Rm Rm	1	20 70			20.00
	Ch.510.000 to Ch.580.00 Ch.590.000 to Ch.720.00	Rm	1	30			70.00 30.00
	Ch.750.000 to Ch.720.00 Ch.750.000 to Ch.920.00	Rm	1	170		+	170.00
	RHS	IXIII		170			170.00
	Ch.00.000 to Ch.80.00	Rm	1	80			80.00
	Ch.80.000 to Ch.210.00	Rm	1	130			130.00
	Ch.210.000 to Ch.270.00	Rm	1	60			60.00
	Ch.270.000 to Ch.280.00	Rm	1	10			10.00
	Ch.280.000 to Ch.320.00	Rm	1	40			40.00
	Ch.330.000 to Ch.470.00	Rm	1	140			140.00
	Ch.480.000 to Ch.500.00	Rm	1	20			20.00
	Ch.510.000 to Ch.680.00	Rm	1	170			170.00
	Ch.690.000 to Ch.750.00	Rm	1	60			60.00
	Ch.750.000 to Ch.800.00	Rm	1	50		1	50.00
	Ch.800.000 to Ch.910.00	Rm	1	90			90.00
	20						
	LHS						
	Ch.150.000 to Ch.180.00	Rm	1	30			30.00
	Ch.530.000 to Ch.550.00	Rm	1	20			20.00
	Ch.560.000 to Ch.750.00	Rm	1	190			190.00
	Ch.760.000 to Ch.900.00	Rm	1	140			140.00
	Ch.920.000 to Ch.940.00	Rm	1	20			20.00
	Ch.950.000 to Ch.1100.00	Rm	1	150			150.00
	RHS						
	Ch.45.000 to Ch.80.00	Rm	1	35			35.00
	Ch.150.000 to Ch.180.00	Rm	1	30			30.00
	Ch.200.000 to Ch.260.00	Rm	1	60			60.00
	Ch.685.000 to Ch.705.00	Rm	1	20			20.00
	0 :1 @40 0/0 !: (NI					3650.00
	Consider @10m C/C distance of M.H.Cover	Nos.					365.00
	KSRB 12-8.2 : Constructing brick masonry inspection chamber						
	500x700mm, and 450mm depth, (clear inside dimension) for						
	pipeline with one or two inlets, using table moulded non-modular						
	bricks of class designation 50 in cement mortar 1:5, C.I cover with						
	frame (light duty) 455x610mm internal dimensions, total weight of						
	cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete						
26	M 15 with 20mm and downsize granite metal, foundation concrete						
36	M 5 with 40mm and downsize granite metal inside plastering						
	12mm thick with cement mortar 1:3, finished smooth with a floating						
	coat of cement on walls and bed concrete complete as per						
	standard design including cost of materials, labour charges, curing						
	complete as per specifications. Specification No. KBS						
	(P.No. 74/ I.No.11.52 of PWD SR 2018-19)						
	(1 110.1 1						
-	Water Pine and OFC Pine					1	1
	Water Pipe and OFC Pipe 7a-Milagres Cross Road	Nos.	5			+	5.00
	7a-Milagles Closs Road 7c-Nandigudda Road	Nos.	22			1	22.00
	8-New Balmatta Road	Nos.	7			+	7.00
	10-New Baimatta Road 10-Kudumbi Garden (DBS) Road	Nos.	9				9.00
<u> </u>	19a-Arya Samaj Road	Nos.	13				13.00
 	19bBalmatta Road	Nos.	8				8.00
-	15a-Azizuddin Road	Nos.	16			+	16.00
<u> </u>	15b-Jumma Masjid-Old Port Road	Nos.	21				21.00
	20-Bendre Ferry Road	Nos.	24			1	24.00
	25 Solidio Folly Rodu	1103.	24			1	125.00
						_	
	Consider 10% qty of Total	Nos.					13

Sr. No.	Description	Unit	No's	L	В	н	Qty.
37	Providing gully pipe lowering,laying of PVC 100 mm dia pipes to the required alignments including specials and grade as indicated in drawings/design and hydraulically testing of the pipe line. The rate shall include all jointing materials, testing apparatus and water for testi g etc as directed by the Engineer in charge (page No.41, Item No.7, KUWSDB SOR 2016-17)						
	7a-Milagres Cross Road						
	RHS						
	Ch.10.000 to Ch.160.00	Rmt	1	150			150.00
	7. Attayor Nandiguda Bood						
	7c-Attavar-Nandiguda Road LHS						
	Ch.10.000 to Ch.130.00	Rmt	1	120			120.00
	Ch.150.000 to Ch.410.00	Rmt	1	260			260.00
	Ch.420.000 to Ch.480.00	Rmt	1	250			250.00
	Ch.480.000 to Ch.670.00	Rmt	1	250			250.00
	Ch.680.000 to Ch.720.00	Rmt	1	40			40.00
	Ch.730.000 to Ch.800.00	Rmt	1	70			70.00
	Ch.810.000 to Ch.850.00	Rmt	1	40			40.00
	Ch.880.000 to Ch.950.00 Ch.960.000 to Ch.1004.00	Rmt Rmt	1	70 44			70.00 44.00
	RHS	KIIII	1	44			44.00
	Ch.10.000 to Ch.130.00	Rmt	1	120			120.00
	Ch.140.000 to Ch.350.00	Rmt	1	210			210.00
	Ch.360.000 to Ch.430.00	Rmt	1	70			70.00
	Ch.440.000 to Ch.610.00	Rmt	1	170			170.00
	Ch.610.000 to Ch.730.00	Rmt	1	120			120.00
	Ch.740.000 to Ch.840.00	Rmt	1	100			100.00
	Ch.870.000 to Ch.950.00	Rmt	1	80			80.00
	Ch.960.000 to Ch.1004.00	Rmt	1	44			44.00
	8-New Balmatta Road						
	LHS Ch.30.000 to Ch.150.00	Rmt	- 1	120			120.00
	Ch.520.000 to Ch.580.00	Rmt	1	120 60			60.00
	RHS	IXIII	- '	00			00.00
	Ch.30.000 to Ch.80.00	Rmt	1	50			50.00
	Ch.90.000 to Ch.150.00	Rmt	1	60			60.00
	Ch.515.000 to Ch.560.00	Rmt	1	45			45.00
	10-Kudumbi Garden (DBS)Road						
	LHS	Б .		00			00.00
	Ch.10.000 to Ch.90.00	Rmt	1	80 45			80.00 45.00
	Ch.90.000 to Ch.135.00 Ch.140.000 to Ch.250.00	Rmt Rmt	1	110			110.00
	Ch.140.000 to Ch.250.00 Ch.140.000 to Ch.340.00	Rmt	1	200			200.00
	RHS	IXIII		200			200.00
	Ch.10.000 to Ch.140.00	Rmt	1	130			130.00
	Ch.190.000 to Ch.210.00	Rmt	1	20			20.00
	Ch.220.000 to Ch.360.00	Rmt	1	140			140.00
	19b-Balmatta Road						
	LHS	Б .	4	070			272.22
	Ch.30.000 to Ch.300.00	Rmt	1	270			270.00
	19a LHS						
	Ch.340.000 to Ch.350.00	Rmt	1	10			10.00
	Ch.370.000 to Ch.390.00	Rmt	1	20			20.00
	Ch.390.000 to Ch.570.00	Rmt	1	180			180.00
	Ch.590.000 to Ch.620.00	Rmt	1	30			30.00
	Ch.700.000 to Ch.840.00	Rmt	1	140			140.00
	RHS						
	Ch.30.000 to Ch.300.00	Rmt	1	270			270.00
	Ch.340.000 to Ch.630.00	Rmt	1	290			290.00
	Ch.700.000 to Ch.845.00	Rmt	1	145			145.00
-	15a-Azizuddin Road						
	LHS						
	Ch.00.000 to Ch.90.00	Rmt	1	90			90.00
	Ch.100.000 to Ch.20.00	Rmt	1	120			120.00
	Ch.220.000 to Ch.300.00	Rmt	1	80			80.00
	Ch.310.000 to Ch.420.00	Rmt	1	110			110.00
	Ch.420.000 to Ch.490.00	Rmt	1	70			70.00
	Ch.490.000 to Ch.570.00	Rmt	1	80			80.00

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.580.000 to Ch.640.00	Rmt	1	60			60.00
	Ch.650.000 to Ch.710.00	Rmt	1	60			60.00
	RHS						
	Ch.00.000 to Ch.90.00	Rmt	1	90			90.00
	Ch.100.000 to Ch.220.00	Rmt	1	220			220.00
	Ch.220.000 to Ch.320.00	Rmt	1	100			100.00
	Ch.330.000 to Ch.410.00	Rmt	1	80			80.00
	Ch.420.000 to Ch.570.00	Rmt	1	150			150.00
	Ch.580.000 to Ch.710.00	Rmt	1	130			130.00
	45h Ivenera Masiid Old Dart Bood						
	15b-Jumma Masjid-Old Port Road LHS						
	Ch.00.000 to Ch.90.00	Rmt	1	90			90.00
	Ch.100.000 to Ch.220.00	Rmt	1	120			120.00
	Ch.220.000 to Ch.300.00	Rmt	1	80			80.00
	Ch.310.000 to Ch.420.00	Rmt	1	110			110.00
	Ch.420.000 to Ch.490.00	Rmt	1	70			70.00
	Ch.490.000 to Ch.570.00	Rmt	1	80			80.00
	Ch.580.000 to Ch.640.00	Rmt	1	60			60.00
	Ch.650.000 to Ch.710.00	Rmt	1	60			60.00
	RHS						
	Ch.00.000 to Ch.90.00	Rmt	1	90			90.00
	Ch.100.000 to Ch.220.00	Rmt	1	120			120.00
	Ch.220.000 to Ch.320.00	Rmt	1	100			100.00
	Ch.330.000 to Ch.410.00	Rmt	1	80			80.00
	Ch.420.000 to Ch.570.00	Rmt	1	150			150.00
	Ch.580.000 to Ch.710.00	Rmt	1	130			130.00
	20-Bendre Ferry Road						
	LHS Ch.00.000 to Ch.80.00	Rmt	1	80			80.00
	Ch.80.000 to Ch.140.00	Rmt	1	60			60.00
	Ch.180.000 to Ch.220.00	Rmt	1	40			40.00
	Ch.230.000 to Ch.250.00	Rmt	1				20.00
	Ch.250.000 to Ch.530.00	Rmt	1	280			280.00
	RHS						
	Ch.530.000 to Ch.580.00	Rmt	1	50			50.00
	Ch.705.000 to Ch.1040.00	Rmt	1	335			335.00
						Total	8268.00
			Nos.	Rm			
	Nos. Of Pipes		827	1.2			992.40
	Total length of pipe=	Rmt		Total Qty.		T	992.40
	KSRB 11-18-17.1 : Providing and fixing sand cast iron trap of						
20	100mm dia, of self cleaning design with screwed down or hinged grating with or without vent arm including cutting and making good						
38	the walls and floors, cost of materials, labour, testing, complete as						
	per specifications Specification No. KBS 11.1.10.						
	SWD						
—	Same qty as pipe	Nos.	827.00				827.00
	Same 413 at hipe	Nos.	027.00		Total Qty	<u>'</u> .	827.00
							3200
	KSRRB M2200- Providing Weep Holes KSRRB M2200-8.						
	Providing weep holes in Brick masonry / Plain / Reinforced						
	concrete abutment, wing wall / return wall with 100 mm dia AC						
00	pipe, extending through the full width of the structure with slope of						
39	1V :20H towards drawing foce. Complete as per drawing and						
	Technical Specifications complete as per specifications MORTH						
	Specification No.2706 & 2200						
	(PWD SR 2018-19, SI.No.28.10)						
	Total Length of SWD	Rm	1	8690.1			8690.10
	Weep Holes at 1m c/c	Nos/Rm					8690.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
40	KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings complete as per specifications. Case-III: Triple row for three utility services. (PWD SR 2018-19,SI.No.24.36)						
1	7a-Milagres Cross Road	Rmt	4	11			44
	7c-Nandigudda Road	Rmt	11	16			176
	8-New Balmatta Road	Rmt	12				144
5	10-Kudumbi Garden (DBS) Road	Rmt Rmt	8				96 60
6	19a-Arya Samaj Road 19bBalmatta Road	Rmt	4				104
7	15a-Azizuddin Road	Rmt	8				88
8	15b-Jumma Masjid-Old Port Road	Rmt	20	6			120
9	20-Bendre Ferry Road	Rmt	23	12		-	276
		Rmt			Total Qty.		1108.00
41	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5, Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7. The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years. (Market Rate)		Nos.	RHS	Nos.	LHS	
	7a-Milagres Cross Road	Rmt	1		1	183	366
	7c-Nandigudda Road	Rmt	2		2	1021	4084
	8-New Balmatta Road	Rmt	0		2	577	1154
5	10-Kudumbi Garden (DBS) Road 19a-Arya Samaj Road	Rmt Rmt	2		<u>4</u> 0	375 595	2250 1190
6	19bBalmatta Road	Rmt	2		0	330	
7	15a-Azizuddin Road	Rmt	2		2	717	2868
8	15b-Jumma Masjid-Old Port Road	Rmt	1		1	966	
9	20-Bendre Ferry Road	Rmt	2	1103	2	1103	4412
	Deduction of Chambers length		No. Of Pipes	No. Of Chambers	No. Of Pipes	No. Of Chambers	
			A	В	C	D	E=(A*B+C* D)*2m chamber length
1	7a-Milagres Cross Road	Rmt	1		1	7	
	7c-Nandigudda Road	Rmt	2		2	35	
3	8-New Balmatta Road 10-Kudumbi Garden (DBS) Road	Rmt Rmt	0 2		2 4	20 13	-80 -156
5	19a-Arya Samaj Road	Rmt	2		0	20	-130
6	19bBalmatta Road	Rmt	2	11	0	11	-44
7	15a-Azizuddin Road	Rmt	2	24	2	24	
8	15b-Jumma Masjid-Old Port Road	Rmt	1		1	33	
9	20-Bendre Ferry Road	Rmt Rmt	2	37 Total Qty.	2	37	-296 17628.00
	Providing and laying Dia 160mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5,Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7.The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years.(Market Rate)		Nos.	RHS	Nos.	LHS	
1	7a-Milagres Cross Road	Rmt	2		NOS.	183	366
		131111		100	U	100	

Sr. No.	Description	Unit	No's	L	В	н	Qty.
3	8-New Balmatta Road	Rmt	0	577	4	577	2308
4	10-Kudumbi Garden (DBS) Road	Rmt	4	375	4	375	3000
5	19a-Arya Samaj Road	Rmt	4	595	2	595	3570
<u>6</u> 7	19bBalmatta Road 15a-Azizuddin Road	Rmt Rmt	2	330 717	2	330 717	1980 2868
8	15b-Jumma Masjid-Old Port Road	Rmt	2		0		1932
9	20-Bendre Ferry Road	Rmt	2		2	1103	4412
	Deduction of Chambers length		No. Of	No. Of	No. Of	No. Of	
			Pipes	Chambers	Pipes	Chambers	
			А	В	С	D	E=(A*B+C* D)*2m chamber length
1	7a-Milagres Cross Road	Rmt	2		0	7	-28
2	7c-Nandigudda Road	Rmt	4		0	35	-280
3	8-New Balmatta Road	Rmt	0		4	20	-160
5	10-Kudumbi Garden (DBS) Road 19a-Arya Samaj Road	Rmt Rmt	4	13 20	2	13 20	-208 -240
6	19bBalmatta Road	Rmt	4	11	2	11	-132
7	15a-Azizuddin Road	Rmt	2		2	24	-192
8	15b-Jumma Masjid-Old Port Road	Rmt	2		0	33	-132
9	20-Bendre Ferry Road	Rmt	2	37	2	37	-296
		Rmt			Total Qty.	Τ	22852.00
43	Providing and Fixing Spacers for Power Ducts of size 200 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)			RHS	LHS		
1	7a-Milagres Cross Road	Rmt	1	183	183		366
2	7c-Nandigudda Road	Rmt	1	1021	1021		2042
3	8-New Balmatta Road	Rmt	1	0	577		577
4	10-Kudumbi Garden (DBS) Road	Rmt	1	375	375		750
5 6	19a-Arya Samaj Road 19bBalmatta Road	Rmt Rmt	1	595 330	0		595 330
7	15a-Azizuddin Road	Rmt	1	717	717		1434
8	15b-Jumma Masjid-Old Port Road	Rmt	1	966	966		1932
9	20-Bendre Ferry Road	Rmt	1	1103	1103		2206
							10232.00
	No. of Spacer=Total Length of Pipe / 1.5m	Nos.			Total Qty.	I	6821.00
44	Providing and Fixing Spacers for Power Ducts of size 160 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)			RHS	LHS		
1	7a-Milagres Cross Road	Rmt	1	183	0		183
2	7c-Nandigudda Road	Rmt	1	1021	0		1021
3	8-New Balmatta Road	Rmt	1	0	577		577
4	10-Kudumbi Garden (DBS) Road	Rmt	1	375	375		750
5 6	19a-Arya Samaj Road 19bBalmatta Road	Rmt Rmt	1	595 330	595 330		1190 660
7	15a-Azizuddin Road	Rmt	1	717	717		1434
8	15b-Jumma Masjid-Old Port Road	Rmt	1		0		966
9	20-Bendre Ferry Road	Rmt	1	1103	1103		2206
							8987.00
	No. of Spacer=Total Length of Pipe / 1.5m	Nos.		Total Qty.			5991.00
45	Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lubricant inner layer for ICT fibre cables comforming to ASTMF 2160 and /or equivalent indian standard and conveying to work site including loading and unloading at both destination and rolling,lowering into trenches,laying true to line and jointing of pipe etc.Complete. (Market Rate)			RHS	LHS		
1	7a-Milagres Cross Road	Rmt	1	183	183		366
2	7c-Nandigudda Road	Rmt	1	1021	1021		2042
3	8-New Balmatta Road	Rmt	1	577			577
5	10-Kudumbi Garden (DBS) Road	Rmt Rmt	1	375 595	375 595		750 1190
6	19a-Arya Samaj Road 19bBalmatta Road	Rmt	1	330	330		660
7	15a-Azizuddin Road	Rmt	1	717	717		1434
8	15b-Jumma Masjid-Old Port Road	Rmt	1	966			1932
9	20-Bendre Ferry Road	Rmt	1	1103	1103		2206

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Deduction of Chambers length		No. Of Pipes	No. Of Chambers	No. Of Pipes	No. Of Chambers	
			A	В	С	D	E=(A*B+C* D)*0.6m chamber length
1	7a-Milagres Cross Road	Rmt	1	7	1	183	-114
3	7c-Nandigudda Road 8-New Balmatta Road	Rmt Rmt	1	35 20	1	1021	-633.6
4	10-Kudumbi Garden (DBS) Road	Rmt	1	13	1	375	-12 -232.8
5	19a-Arya Samaj Road	Rmt	1	20	1	595	-369
6	19bBalmatta Road	Rmt	1	11	1	330	-204.6
7	15a-Azizuddin Road	Rmt	1	24	1	717	-444.6
8	15b-Jumma Masjid-Old Port Road	Rmt	1	33	1	966	-599.4
9	20-Bendre Ferry Road	Rmt Rmt	1	37	Total Qty.	1103	-684 7863.00
46	Supplying and Application charges required for stamping the freshly laid new concrete (Concrete rate is not included in this item) including finishing and colouring the top surface accurately to the required level, shape and size using approved colour shade and staping it using approved stamp pattern and antiquitting it on top with approved colour. Sealing entire area with concrete sealer.						
	7a-Milagres Cross Road						
	RHS						
	Ch.10.000 to Ch.160.00	Sqm	1	150.00	2.17		324.9
	7c-Attavar-Nandiguda Road						
	LHS						
	Ch.10.000 to Ch.130.00	Sqm	1	120.00	3.33		399.6
	Ch.150.000 to Ch.410.00	Sqm	1	260.00			826.8
	Ch.420.000 to Ch.670.00	Sqm	1	250.00			855
	Ch.510.000 to Ch.660.00	Sqm	1	250.00			487.5
	Ch.680.000 to Ch.720.00 Ch.730.000 to Ch.800.00	Sqm Sqm	1	40.00 70.00			91.6
	Ch.810.000 to Ch.850.00	Sqm	1	40.00			156.1 84.00
	Ch.880.000 to Ch.950.00	Sqm	1	70.00			156.8
	Ch.960.000 to Ch.1004.00	Sqm	1				106.92
	Ch.10.000 to Ch.130.00	Sqm	1	120.00	3.02		362.4
	Ch.140.000 to Ch.350.00	Sqm	1	210.00	3		630
	Ch.360.000 to Ch.430.00	Sqm	1	70.00			364.7
	Ch.440.000 to Ch.610.00	Sqm	1				853.4
	Ch.610.000 to Ch.730.00	Sqm	1	120.00			430.8
	Ch.740.000 to Ch.840.00	Sqm	1	100.00			243
	Ch.870.000 to Ch.950.00	Sqm	1	80.00			211.2
	Ch.960.000 to Ch.1004.00	Sqm	1	44	5.3		233.2
	8-New Balmatta Road LHS						
	Ch.30.000 to Ch.150.00	Sqm	1	120	3.1		372
	Ch.520.000 to Ch.580.00	Sqm	1	60.00			223.8
	RHS						
	Ch.30.000 to Ch.80.00	Sqm	1	50.00	4.44		222
	Ch.90.000 to Ch.150.00	Sqm	1	60			183
	Ch.515.000 to Ch.560.00	Sqm	1	45	2.67		120.15
	10-Kudumbi Garden (DBS)Road LHS						
	Ch.10.000 to Ch.90.00	Sqm	1	80.00	2.28		182.4
	Ch.90.000 to Ch.35.00	Sqm	1	45.00			102.4
	Ch.140.000 to Ch.250.00	Sqm	1	110.00			166.1
	Ch.140.000 to Ch.340.00	Sqm	1	200.00			148
	RHS						
	Ch.10.000 to Ch.140.00	Sqm	1	130.00			331.5
	Ch.190.000 to Ch.210.00	Sqm	1	20.00			34
	Ch.220.000 to Ch.360.00	Sqm	1	140.00	2.36		330.4
	19b-Balmatta Road						
	LHS					-	-
	Ch.30.000 to Ch.300.00	Sqm	1	270	4.43		1196.1

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	19a						
	LHS	Causa	1	40	40		100
	Ch.340.000 to Ch.350.00 Ch.370.000 to Ch.390.00	Sqm Sqm	1	10 20	10 2.05		100
	Ch.390.000 to Ch.570.00	Sqm	1	180	2.03		367.2
	Ch.590.000 to Ch.620.00	Sqm	1	30	2.2		66
	Ch.650.000 to Ch.660.00	Sqm	1	10	1.134		11.34
	Ch.700.000 to Ch.840.00	Sqm	1	140	3.24		453.6
	RHS	Oqiii		140	5.24		400.0
	Ch.30.000 to Ch.300.00	Sqm	1	270	4.55		1228.5
	Ch.340.000 to Ch.630.00	Sqm	1	290	2.14		620.6
	Ch.650.000 to Ch.660.00	Sqm	1	10	2.052		20.52
	Ch.700.000 to Ch.845.00	Sam	1	145	2.032		426.3
	C11.7 00.000 to C11.043.00	Oqiii	'	143	2.34		420.0
	15a-Azizuddin Road						
	LHS						
	Ch.00.000 to Ch.90.00	Sqm	1	90	2.19		197.1
	Ch.100.000 to Ch.220.00	Sqm	1	120	2.15		258
	Ch.220.000 to Ch.300.00	Sqm	1	80	2.13		178.4
	Ch.310.000 to Ch.420.00	Sqm	1	110	1.69		185.9
				_			
	Ch.420.000 to Ch.490.00	Sqm	1	70	2.46		172.2
	Ch.490.000 to Ch.570.00	Sqm	1	80	1.86		148.8
	Ch.580.000 to Ch.640.00	Sqm	1	60	1.83		109.8
	Ch.650.000 to Ch.710.00	Sqm	1	60	1.6		96
	RHS						
	Ch.00.000 to Ch.90.00	Sqm	1	90	1.82		163.8
	Ch.100.000 to Ch.220.00	Sqm	1	220	1.27		279.4
	Ch.220.000 to Ch.320.00	Sqm	1	100	1.67		167
	Ch.330.000 to Ch.410.00	Sqm	1	80	2.23		178.4
	Ch.420.000 to Ch.570.00	Sqm	1	150	2.24		336
	Ch.580.000 to Ch.710.00	Sqm	1	130	1.78		231.4
	15b-Jumma Masjid-Old Port Road						
	LHS						
	Ch.00.000 to Ch.90.00	Sqm	1	90	2.19		197.1
	Ch.100.000 to Ch.220.00	Sqm	1	120	2.15		258
	Ch.220.000 to Ch.300.00	Sqm	1	80	2.23		178.4
	Ch.310.000 to Ch.420.00	Sqm	1	110	1.69		185.9
	Ch.420.000 to Ch.490.00	Sqm	1	70	2.46		172.2
	Ch.490.000 to Ch.570.00	Sqm	1	80	1.86		148.8
	Ch.580.000 to Ch.640.00	Sqm	1				109.8
	Ch.650.000 to Ch.710.00	Sqm	1	60			96
	RHS	Oqiii	'	00	1.0		30
	Ch.00.000 to Ch.90.00	Sqm	1	90	1.82		163.8
	Ch.100.000 to Ch.220.00	Sqm	1	120	2.33		279.6
	Ch.220.000 to Ch.320.00	Sqm	1	100	1.67		167
	Ch.330.000 to Ch.410.00						_
		Sqm	1		2.23		178.4
	Ch.420.000 to Ch.570.00	Sqm	1	150	2.24		336
	Ch.580.000 to Ch.710.00	Sqm	1	130	1.78		231.4
	20-Bendre Ferry Road						
	LHS						1
	Ch.00.000 to Ch.80.00	Sqm	1	80	1.64		131.2
	Ch.80.000 to Ch.140.00	Sqm	1	60	1.77		106.2
	Ch.180.000 to Ch.220.00	Sqm	1	40	2.35		94
	Ch.230.000 to Ch.250.00	Sqm	1	20	3.4		68
	Ch.250.000 to Ch.530.00	Sqm	1	280	2.31		646.8
	RHS						
	Ch.530.000 to Ch.580.00	Sqm	1	50	5.6		280
	Ch.705.000 to Ch.1040.00	Sqm	1	335	2.29		767.15
		Sqm			Total Qty.		21262.53
47.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles.						
	7a-Milagres Cross Road						+
	RHS		<u> </u>				1
	Ch.10.000 to Ch.160.00	Rm	43		2.17		93.14
	On. 10.000 to On. 100.00	IXIII	43		۷.۱۱		93.12
	7 A(4 - N - P - 1 - D - 1						+
			İ	1			
	7c-Attavar-Nandiguda Road		ĺ		l l		
	LHS	D	2.1		0.00		440.00
	LHS Ch.10.000 to Ch.130.00	Rm	34		3.33		
	LHS	Rm Rm Rm	34 74 71		3.33 3.18 3.42		113.22 235.32 242.82

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.680.000 to Ch.720.00	Rm	11		2.29		25.19
	Ch.730.000 to Ch.800.00	Rm	20		2.23		44.6
	Ch.810.000 to Ch.850.00	Rm	11		2.10		23.1
	Ch.880.000 to Ch.950.00	Rm	20		2.24		44.8
	Ch.960.000 to Ch.1004.00	Rm	13		2.43		31.59
	RHS Ch.10.000 to Ch.130.00	Des	24		2.02		100.00
	Ch.140.000 to Ch.130.00 Ch.140.000 to Ch.350.00	Rm Rm	34 60		3.02		102.68 180
	Ch.360.000 to Ch.430.00	Rm	20		5.21		104.2
	Ch.440.000 to Ch.610.00	Rm	49		5.02		245.98
	Ch.610.000 to Ch.730.00	Rm	34		3.59		122.06
	Ch.740.000 to Ch.840.00	Rm	29		2.43		70.47
	Ch.870.000 to Ch.950.00	Rm	23		2.64		60.72
	Ch.960.000 to Ch.1004.00	Rm	13		5.30		68.9
		1311			0.00		00.0
	8-New Balmatta Road						
	LHS						
	Ch.30.000 to Ch.150.00	Rm	34		3.10		105.4
	Ch.520.000 to Ch.580.00	Rm	17		3.73		63.41
	RHS						
	Ch.30.000 to Ch.80.00	Rm	14		4.44		62.16
	Ch.90.000 to Ch.150.00	Rm	17		3.05		51.85
	Ch.515.000 to Ch.560.00	Rm	13		2.67		34.71
	10-Kudumbi Garden (DBS)Road						
	LHS						
	Ch.10.000 to Ch.90.00	Rm	23		2.28		52.44
	Ch.90.000 to Ch.135.00	Rm	13		2.27		29.51
	Ch.140.000 to Ch.250.00	Rm	31		1.51		46.81
	Ch.140.000 to Ch.340.00	Rm	57		0.74		42.18
	RHS						
	Ch.10.000 to Ch.140.00	Rm	37		2.55		94.35
	Ch.190.000 to Ch.210.00	Rm	6		1.70		10.2
	Ch.220.000 to Ch.360.00	Rm	40		2.36		94.4
	19b-Balmatta Road						
	LHS	D	77		4.40		044.44
	Ch.30.000 to Ch.300.00	Rm	77		4.43		341.11
	19a LHS						
	Ch.340.000 to Ch.350.00	Dm	3		10.00		30
	Ch.370.000 to Ch.390.00	Rm Rm	6		2.05		12.3
	Ch.390.000 to Ch.570.00	Rm	51		2.03		104.04
	Ch.590.000 to Ch.620.00	Rm	9		2.20		19.8
	Ch.650.000 to Ch.660.00	Sqm	3		1.13		3.402
	Ch.700.000 to Ch.840.00	Rm	40		3.24		129.6
	RHS	TAIII	10		0.24		120.0
	Ch.30.000 to Ch.300.00	Rm	77		4.55		350.35
	Ch.340.000 to Ch.630.00	Rm	83		2.14		177.62
	Ch.650.000 to Ch.660.00	Sqm	3		2.05		6.156
	Ch.700.000 to Ch.845.00	Rm	41		2.94		120.54
	15a-Azizuddin Road						
	LHS						
	Ch.00.000 to Ch.90.00	Rm	26		2.19		56.94
	Ch.100.000 to Ch.220.00	Rm	34		2.15		73.1
	Ch.220.000 to Ch.300.00	Rm	23		2.23		51.29
	Ch.310.000 to Ch.420.00	Rm	31		1.69		52.39
	Ch.420.000 to Ch.490.00	Rm	20		2.46		49.2
	Ch.490.000 to Ch.570.00	Rm	23		1.86		42.78
	Ch.580.000 to Ch.640.00	Rm	17		1.83		31.11
	Ch.650.000 to Ch.710.00	Rm	17		1.60		27.2
	RHS						
	Ch.00.000 to Ch.90.00	Rm	26		1.82		47.32
	Ch.100.000 to Ch.220.00	Rm	63		1.27		80.01
	Ch.220.000 to Ch.320.00	Rm	29		1.67		48.43
	Ch.330.000 to Ch.410.00	Rm	23		2.23		51.29
	Ch.420.000 to Ch.570.00	Rm	43		2.24		96.32
	Ch.580.000 to Ch.710.00	Rm	37		1.78		65.86
							1
	15b-Jumma Masjid-Old Port Road						1
	LHS						
	Ch.00.000 to Ch.90.00	Rm	26		2.19		56.94
	Ch.100.000 to Ch.220.00	Rm	34		2.15		73.1

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.220.000 to Ch.300.00	Rm	23		2.23		51.29
	Ch.310.000 to Ch.420.00	Rm	31		1.69		52.39
	Ch.420.000 to Ch.490.00	Rm	20		2.46		49.2
	Ch.490.000 to Ch.570.00	Rm	23		1.86		42.78
	Ch.580.000 to Ch.640.00	Rm	17		1.83		31.11
	Ch.650.000 to Ch.710.00	Rm	17		1.60		27.2
	RHS	D	00		4.00		47.00
	Ch.00.000 to Ch.90.00	Rm	26 34		1.82 2.33		47.32
	Ch.100.000 to Ch.220.00 Ch.220.000 to Ch.320.00	Rm Rm	29		1.67		79.22 48.43
	Ch.330.000 to Ch.410.00	Rm	29		2.23		51.29
	Ch.420.000 to Ch.410.00	Rm	43		2.23		96.32
	Ch.580.000 to Ch.710.00	Rm	37		1.78		65.86
	C11.380.000 to C11.7 to.00	IXIII	31		1.70		03.80
	20-Bendre Ferry Road						
	LHS						
	Ch.00.000 to Ch.80.00	Rm	23		1.64		37.72
	Ch.80.000 to Ch.140.00	Rm	17		1.77		30.09
	Ch.180.000 to Ch.220.00	Rm	11		2.35		25.85
	Ch.230.000 to Ch.250.00	Rm	6		3.40		20.4
	Ch.250.000 to Ch.530.00	Rm	80		2.31		184.8
	RHS						
	Ch.530.000 to Ch.580.00	Rm	14		5.60		78.4
	Ch.705.000 to Ch.1040.00	Rm	96		2.29		219.84
						Total	6072.37
48	Providing and laying heavy duty cobble stones 75mm thick, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 30mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. (KPWD SR 2018-19,SI No : 14.7)						
	Flush Footpath with Carriageway 7a						
	LHS						
	Ch.20.000 to Ch.70.00	Sqm	1				101.50
	Ch.75.000 to Ch.160.00	Sqm	1	85	0.47		39.95
	7c						
	LHS		4		0.00		45.00
	Ch.850.000 to Ch.875.00	Sqm	1	25	0.60		15.00
	RHS	0	4	00	0.50		40.00
	Ch.260.000 to Ch.280.00	Sqm	1	20	0.50		10.00
	Ch.320.000 to Ch.350.00 Ch.620.000 to Ch.680.00	Sqm	<u>1</u>	30 60	2.07 2.88		62.10 172.80
		Sqm	1		0.18		
	Ch.810.000 to Ch.840.00 Ch.850.000 to Ch.875.00	Sqm Sqm	1	30 25	0.18		5.40 23.00
	Ch.900.000 to Ch.920.00	Sqm	1	20	1.00		20.00
	8	Oqiii	'	20	1.00		20.00
	LHS						
	Ch.150.000 to Ch.190.00	Sqm	1	40	0.43		17.20
	Ch.190.000 to Ch.200.00	Sqm	1		1.00		10.00
	Ch.210.000 to Ch.270.00	Sqm	1	60	0.87		52.20
	Ch.270.000 to Ch.510.00	Sqm	1	240	0.75		180.00
	RHS						100100
	Ch.150.000 to Ch.200.00	Sqm	1	50	0.60		30.00
	Ch.220.000 to Ch.300.00	Sqm	1		1.29		103.20
	Ch.310.000 to Ch.320.00	Sqm	1	10	1.20		12.00
	Ch.330.000 to Ch.350.00	Sqm	1	20	1.20		24.00
	Ch.360.000 to Ch.400.00	Sqm	1	40	1.38		55.20
	Ch.410.000 to Ch.510.00	Sqm	1	100	0.85		85.00
	10						
	LHS						
	Ch.150.000 to Ch.180.00	Sqm	1	30	1.03		30.90
	19						
	LHS						
	Ch.625.000 to Ch.700.00	Sqm	1				53.25
	Ch.850.000 to Ch.920.00	Sqm	1	70	0.76		53.20
	RHS						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.625.000 to Ch.700.00	Sqm	1	75	0.87		65.25
	Ch.800.000 to Ch.830.00	Sqm	1	30	1.96		58.80
	Ch.850.000 to Ch.920.00	Sqm	1	70.00	0.86		60.20
	15b LHS						
	Ch.00.000 to Ch.80.00	Sqm	1	80.00	1.24		99.20
	Ch.90.000 to Ch.200.00	Sqm	1	110.00	0.95		104.50
	Ch.210.000 to Ch.320.00	Sqm	1	110.00	0.68		74.80
	Ch.320.000 to Ch.420.00	Sqm	1	100.00	0.60		60.00
	Ch.430.000 to Ch.500.00	Sqm	1	70.00	0.63		44.10
	Ch.510.000 to Ch.530.00	Sqm	1	20.00	0.60		12.00
	Ch.510.000 to Ch.580.00	Sqm	1	70.00	0.37		25.90
	Ch.590.000 to Ch.720.00	Sqm	1	30.00	3.73		111.90
	Ch.750.000 to Ch.920.00 RHS	Sqm	1	170.00	1.75		297.50
	Ch.00.000 to Ch.80.00	Sqm	1	80.00	1.76		140.80
	Ch.80.000 to Ch.210.00	Sqm	1	130.00	0.85		110.50
	Ch.210.000 to Ch.270.00	Sqm	1	60.00	0.83		49.80
	Ch.270.000 to Ch.280.00	Sqm	1	10.00	0.60		6.00
	Ch.280.000 to Ch.320.00	Sqm	1	40.00	0.83		33.20
	Ch.330.000 to Ch.470.00	Sqm	1	140.00	0.43		60.20
	Ch.480.000 to Ch.500.00	Sqm	1	20.00	0.77		15.40
	Ch.510.000 to Ch.680.00	Sqm	1	170.00	0.98		166.60
	Ch.690.000 to Ch.750.00	Sqm	1	60.00	0.73		43.80
	Ch.750.000 to Ch.800.00	Sqm	1	50.00 90.00	1.24 2.13		62.00
	Ch.800.000 to Ch.910.00	Sqm	1	90.00	2.13		191.70
	LHS						
	Ch.150.000 to Ch.180.00	Sqm	1	30.00	0.80		24.00
	Ch.530.000 to Ch.550.00	Sqm	1	20.00	1.30		26.00
	Ch.560.000 to Ch.750.00	Sqm	1	190.00	1.55		294.50
	Ch.760.000 to Ch.900.00	Sqm	1	140.00	2.39		334.60
	Ch.920.000 to Ch.940.00	Sqm	1	20.00	3.10		62.00
	Ch.950.000 to Ch.1100.00	Sqm	1	150.00	3.55		532.50
	RHS	Cours	1	25.00	0.74		24.05
	Ch.45.000 to Ch.80.00 Ch.150.000 to Ch.180.00	Sqm Sqm	1 1	35.00 30	0.71 1.10		24.85 33.00
	Ch.200.000 to Ch.260.00	Sqm	1	60	2.30		138.00
	Ch.685.000 to Ch.705.00	Sqm	1	20	0.75		15.00
							10.00
	Parking Area						
	Road 7c						
	LHS						
	Ch.530.000 to Ch.590.000	Sqm	1	60	2.50		150.00
	RHS Ch.530.000 to Ch.590.000	Cam	1	71.13	2.50		177.83
	Road 8	Sqm	1	/ 1.13	2.50		177.03
	LHS						
	Ch.50.000 to Ch.80.000	Sqm	1	25.32	2.00		50.64
	RHS						
	Ch.50.000 to Ch.80.000	Sqm	1	24.92	2.00		49.84
	Road 19b						
	RHS						
	Ch.90.000 to Ch.250.000	Sqm	1	129.7	2.50		324.25
	Road 19a LHS						
	Ch.760.000 to Ch.830.000	Sqm	1	53.83	2.50		134.58
	RHS	Oqiii		00.00	2.00		104.00
	Ch.760.000 to Ch.830.000	Sqm	1	24.1	2.50		60.25
	Table Top paver Block			_			
1	7a-Milagres Cross Road	Sqm	1	6.20	3.00		18.60
	7c-Nandigudda Road	Sqm	1	7.00	3.00		21.00
	8-New Balmatta Road	Sqm	1	5.50	3.00		16.50
4	10-Kudumbi Garden (DBS) Road	Sqm	1	6.00	3.00		18.00
5 6	19a-Arya Samaj Road 19bBalmatta Road	Sqm Sqm	3	15.00 5.50	3.00 3.00		135.00 16.50
7	15a-Azizuddin Road	Sqm	1	6.00			18.00
8	15b-Jumma Masjid-Old Port Road	Sqm	1	5.50	3.00		16.50
	20-Bendre Ferry Road	Sqm	1	10.00	3.00		30.00
		Sqm			Total Qty.		5771.99

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
49	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No. 507 -using 100/120 TPH capacity H.M.P. with sensor paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 16-17,S.I.No.21.17.1,Page No.163)						
	Table Top paver Block						
1	7a-Milagres Cross Road	Cum	1	6.20	7.50	0.15	6.98
2	7c-Nandigudda Road	Cum	1	7.00	7.50	0.15	7.88
3	8-New Balmatta Road	Cum Cum	1	5.50 6.00	7.50 7.50	0.15 0.15	6.19 6.75
5	10-Kudumbi Garden (DBS) Road 19a-Arya Samai Road	Cum	3	15.00	7.50	0.15	50.63
6	19bBalmatta Road	Cum	1	5.50	7.50	0.15	6.19
7	15a-Azizuddin Road	Cum	1	6.00		0.15	6.75
8	15b-Jumma Masjid-Old Port Road	Cum	1	5.50	7.50	0.15	6.19
9	20-Bendre Ferry Road	Cum	1	10.00		0.15	11.25
		Cum			Total Qty.		108.79
50	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-40 Bitumen(KPWD 18-19,S.I.No.21.22.6)						
	Table Top paver Block						
1	7a-Milagres Cross Road	Cum	1	6.20	7.50	0.04	1.86
2	7c-Nandigudda Road	Cum	1	7.00	7.50	0.04	2.10
3	8-New Balmatta Road	Cum	1	5.50	7.50	0.04	1.65
5	10-Kudumbi Garden (DBS) Road 19a-Arya Samai Road	Cum Cum	3	6.00 15.00	7.50 7.50	0.04 0.04	1.80 13.50
6	19bBalmatta Road	Cum	1	5.50			1.65
7	15a-Azizuddin Road	Cum	1	6.00	7.50	0.04	1.80
8	15b-Jumma Masjid-Old Port Road	Cum	1	5.50		0.04	1.65
9	20-Bendre Ferry Road	Cum	1	10.00		0.04	3.00
		Cum			Total Qty.		29.01
51	Sinages KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, Supply and Installation of retro-reflective cautionary, mandatory & Informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC:67:2012 specifications & fixed over 4mm thick aluminium composite panel sheet having minimum 0.30 mm thick aluminium skin on both sides & fixed over a support frame of 25X25X3mm MS angle and mounted on 75 mm dia OR 75X75X6mm mild steel angle to Total height 2.70 m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60mm below ground level. the sign post should be painted with be coat of red oxide paint and two coats of synthetic enamel paint of black and white colour with bands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45cmX45cmX60cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the works as directed be engineer in-charge. 10 years warranty for Retro Reflective Sheeting from the original sheeting manufactures as per clause 6.9 in IRC: 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. 900MM Equilateral Triangle-TYPE XI (KPWD 18-19,SI No: 24.2.1)						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
1	7a-Milagres Cross Road	Nos.	4				4.00
2	7c-Nandigudda Road	Nos.	25				25.00
3	8-New Balmatta Road	Nos.	1				1.00
5	10-Kudumbi Garden (DBS) Road	Nos.	9				9.00
6	19a-Arya Samaj Road 19bBalmatta Road	Nos.	8				8.00 6.00
7	15a-Azizuddin Road	Nos.	38				38.00
8	15b-Jumma Masjid-Old Port Road	Nos.	39				39.00
9	20-Bendre Ferry Road	Nos.	24				24.00
		Nos.			Total Qty.		154.00
52	KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, Supply and Installation of retro-reflective cautionary, mandatory & Informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC:67:2012 specifications & fixed over 4mm thick aluminium composite panel sheet having minimum 0.30 mm thick aluminium skin on both sides & fixed over a support frame of 25X25X3mm MS angle and mounted on 75 mm dia OR 75X75X6mm mild steel angle to Total height 2.70 m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60mm below ground level, the sign post should be painted with be coat of red oxide paint and two coats of synthetic enamel paint of black and white colour with bands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45cmX45cmX60cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the works as directed be engineer in-charge.						
1	10 years warranty for Retro Reflective Sheeting from the original sheeting manufactures as per clause 6.9 in IRC: 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. 900MM Octagon Stop Board-TYPE XI (KPWD 18-19,SI No : 24.2.6) 7a-Milagres Cross Road	Nos.	1				1.00
2	7c-Nandigudda Road	Nos.	9				9.00
3	8-New Balmatta Road	Nos.	1				1.00
4	10-Kudumbi Garden (DBS) Road	Nos.	1				1.00
5	19a-Arya Samaj Road	Nos.	2				2.00
6	19bBalmatta Road	Nos.	2				2.00
7	15a-Azizuddin Road	Nos.	4				4.00
<u>8</u> 9	15b-Jumma Masjid-Old Port Road 20-Bendre Ferry Road	Nos.	<u>1</u> 5				1.00 5.00
	25 Solidio Folly Nodu	Nos.		Total Qty.	L	<u>I</u>	26.00
53	KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, Supply and Installation of retro-reflective cautionary, mandatory & Informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC:67:2012 specifications & fixed over 4mm thick aluminium composite panel sheet having minimum 0.30 mm thick aluminium skin on both sides & fixed over a support frame of 25X25X3mm MS angle and mounted on 75 mm dia OR 75X75X6mm mild steel angle to Total height 2.70 m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60mm below ground level. the sign post should be painted with be coat of red oxide paint and two coats of synthetic enamel paint of black and white colour with bands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45cmX45cmX60cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the works as directed be engineer in-charge.						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	10 years warranty for Retro Reflective Sheeting from the original sheeting manufactures as per clause 6.9 in IRC: 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. 600MM Circle-TYPE XI (KPWD 18-19,SI No: 24.2.3)						
	7a-Milagres Cross Road	Nos.	5				5.00
	7c-Nandigudda Road 8-New Balmatta Road	Nos. Nos.	1 9				1.00 9.00
	10-Kudumbi Garden (DBS) Road	Nos.	3				3.00
	19a-Arya Samaj Road	Nos.	3				3.00
	19bBalmatta Road	Nos.	8				8.00
	15a-Azizuddin Road	Nos.	10				10.00
	15b-Jumma Masjid-Old Port Road	Nos.	22				22.00
9	20-Bendre Ferry Road	Nos.	14		T-t-LOt-		14.00
		Nos.			Total Qty		75.00
54.00	KSRRB M800-3. Direction and Place Identification Signs upto 0.9 sqm Size Board:-Manufacturing, supply and installation of retroreflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45 cm x45 cm x 60 cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by engineer in charge. 10 years warranty for retro reflective sheeting from the original sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified copy of three years outdoor			Δroa			
	7a-Milagres Cross Road	Sqm	1	Area 0.9			0.90
	7c-Nandigudda Road	Sqm	5	0.9			4.50
	8-New Balmatta Road	Sqm	1	0.9			0.90
	10-Kudumbi Garden (DBS) Road	Sqm	1	0.9			0.90
	19a-Arya Samaj Road	Sqm	1	0.9			0.90
	19bBalmatta Road 15a-Azizuddin Road	Sqm Sqm	2	0.9 0.9			1.80 0.90
	15b-Jumma Masjid-Old Port Road	Sqm	3	0.9			2.70
	20-Bendre Ferry Road	Sqm	1	0.9			0.90
	,	Sqm			Total Qty		14.40
55	Direction and Place Identification Signs with size more than 0.9 sqm Size Board: Providing and erecting direction and place identification retroreflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing.			Area			
	7a-Milagres Cross Road	Sqm	2	2			4.00
	7c-Nandigudda Road	Sqm	2	2			4.00
	8-New Balmatta Road	Sqm	2	2			4.00
	10-Kudumbi Garden (DBS) Road 19a-Arya Samaj Road	Sqm Sqm	1	2			2.00
	19bBalmatta Road	Sqm	2	2			4.00
	15a-Azizuddin Road	Sqm	2	2			4.00
	15b-Jumma Masjid-Old Port Road	Sqm	3	2			6.00
						1	
	20-Bendre Ferry Road	Sqm Sqm	7	2	Total Qty		14.00

3 8-New Balmatta Road	Sr. No.	Description	Unit	No's	L	В	н	Qty.
2	56	sqm Size Board:-Manufacturing, supply and installation of retro- reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45 cm x45 cm x 60 cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by engineer in charge. 10 years warranty for retro reflective sheeting from the original sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified copy of three years outdoor						
3 8-New Balmatta Road Nos. 2 2.00			Nos.					2.00
4 10-Kudumbi Garden (DBS) Road		8						
5 198-Aya Samaj Road								
6 19bBalmatta Road								
15a-Azizuddin Road								
8 15b-Jumma Masjid-Old Port Road								
9 20-Bendre Ferry Road								
Nos. Total Qty. 22.00								
KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bittuminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications (KPWD 18-19,SI No: 2.4.41)		20 2011.010 1 011) 1100.0		_		Total Qtv.		
Providing and fixing of road stud 100x 100 mm, diseast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications (KPWD 18-19,81 No: 24.41) 1								
2 7c-Nandigudda Road		aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications (KPWD 18-19,SI No : 24.41)						
3 8-New Balmatta Road	-		Nos	36				36.00
4								200.00
5								
6								
7								
8								
9 20-Bendre Ferry Road								361.00
Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface:Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area,thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be level, uniform and free from streak and holes complete as per specifications.MORTH specification No.803 (KPWD 18-19,SI No : 24.15) 1 7a- Milagres Cross Road a Continuos Line-at Edge Sqm 2 183 0.1 36.60 b Continuos Line-at Median Sqm 0 0.1 0.00 c Dash Lines Sqm 0 109.8 0.1 0.00 d Arrow Sqm 18 0.76 Area/Rm 13.68 e Pedstrian Crossing Sqm 3 6.2 1.4 26.04 f Table Top Crossing Sqm 0 16.82 0.00 2 7c-Nandigudda Road a Continuos Line-at Edge Sqm 2 1021 0.1 204.20 b Continuos Line-at Edge Sqm 0 0.1 0.00 c Dash Lines Sqm 0 0 16.82 0.00 2 7c-Nandigudda Road a Continuos Line-at Edge Sqm 2 1021 0.1 204.20 b Continuos Line-at Median Sqm 0 612.6 0.1 0.00 c Dash Lines Sqm 0 612.6 0.1 0.00 d Arrow Sqm 74 0.76 Area/Rm 56.24								298.00
Reflectrising Glass Beads on Concrete Surface:Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area,thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be level,uniform and free from streak and holes complete as per specifications.MORTH specification No.803 (KPWD 18-19,SI No : 24.15) 1 7a- Milagres Cross Road a Continuos Line-at Edge Sqm 2 183 0.1 36.60 b Continuos Line-at Median Sqm 0 0.1 0.00 c Dash Lines Sqm 0 109.8 0.1 0.00 d Arrow Sqm 18 0.76 Area/Rm 13.68 e Pedstrian Crossing Sqm 3 6.2 1.4 26.04 f Table Top Crossing Sqm 0 0 16.82 0.00 2 7c-Nandigudda Road a Continuos Line-at Edge Sqm 2 1021 0.1 204.20 b Continuos Line-at Edge Sqm 0 612.6 0.1 0.00 d Arrow Sqm 0 612.6 0.1 0.00 d Arrow Sqm 0 612.6 0.1 0.00					Total Qty.			1385.00
a Continuos Line-at Edge Sqm 2 183 0.1 36.60 b Continuos Line-at Median Sqm 0 0.1 0.00 c Dash Lines Sqm 0 109.8 0.1 0.00 d Arrow Sqm 18 0.76 Area/Rm 13.68 e Pedstrian Crossing Sqm 3 6.2 1.4 26.04 f Table Top Crossing Sqm 0 0 16.82 0.00 2 7c-Nandigudda Road Sqm 0 0 16.82 0.00 b Continuos Line-at Edge Sqm 2 1021 0.1 204.20 b Continuos Line-at Median Sqm 0 0.1 0.00 c Dash Lines Sqm 0 612.6 0.1 0.00 d Arrow Sqm 74 0.76 Area/Rm 56.24		Reflectrising Glass Beads on Concrete Surface:Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area,thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be level,uniform and free from streak and holes complete as per specifications.MORTH specification No.803 (KPWD 18-19,SI No : 24.15)						
b Continuos Line-at Median Sqm 0 0.1 0.00 c Dash Lines Sqm 0 109.8 0.1 0.00 d Arrow Sqm 18 0.76 Area/Rm 13.68 e Pedstrian Crossing Sqm 3 6.2 1.4 26.04 f Table Top Crossing Sqm 0 0 16.82 0.00 2 7c-Nandigudda Road Sqm 2 1021 0.1 204.20 b Continuos Line-at Edge Sqm 2 1021 0.1 204.20 b Continuos Line-at Median Sqm 0 0.1 0.00 c Dash Lines Sqm 0 612.6 0.1 0.00 d Arrow Sqm 74 0.76 Area/Rm 56.24			Sam	2	100	0.4		36 60
c Dash Lines Sqm 0 109.8 0.1 0.00 d Arrow Sqm 18 0.76 Area/Rm 13.68 e Pedstrian Crossing Sqm 3 6.2 1.4 26.04 f Table Top Crossing Sqm 0 0 16.82 0.00 2 7c-Nandigudda Road Sqm 2 1021 0.1 204.20 b Continuos Line-at Edge Sqm 2 1021 0.1 204.20 b Continuos Line-at Median Sqm 0 0.1 0.00 c Dash Lines Sqm 0 612.6 0.1 0.00 d Arrow Sqm 74 0.76 Area/Rm 56.24								
d Arrow Sqm 18 0.76 Area/Rm 13.68 e Pedstrian Crossing Sqm 3 6.2 1.4 26.04 f Table Top Crossing Sqm 0 0 16.82 0.00 2 7c-Nandigudda Road Sqm 2 1021 0.1 204.20 b Continuos Line-at Edge Sqm 2 1021 0.1 204.20 b Continuos Line-at Median Sqm 0 0.1 0.00 c Dash Lines Sqm 0 612.6 0.1 0.00 d Arrow Sqm 74 0.76 Area/Rm 56.24								
e Pedstrian Crossing Sqm 3 6.2 1.4 26.04 f Table Top Crossing Sqm 0 0 16.82 0.00 2 7c-Nandigudda Road Sqm 2 1021 0.1 204.20 b Continuos Line-at Edge Sqm 2 1021 0.1 204.20 b Continuos Line-at Median Sqm 0 0.1 0.00 c Dash Lines Sqm 0 612.6 0.1 0.00 d Arrow Sqm 74 0.76 Area/Rm 56.24								13.68
2 7c-Nandigudda Road a Continuos Line-at Edge Sqm 2 1021 0.1 204.20 b Continuos Line-at Median Sqm 0 0.1 0.00 c Dash Lines Sqm 0 612.6 0.1 0.00 d Arrow Sqm 74 0.76 Area/Rm 56.24			Sqm	3	6.2			26.04
a Continuos Line-at Edge Sqm 2 1021 0.1 204.20 b Continuos Line-at Median Sqm 0 0.1 0.00 c Dash Lines Sqm 0 612.6 0.1 0.00 d Arrow Sqm 74 0.76 Area/Rm 56.24	f	Š		0	0	16.82		0.00
a Continuos Line-at Edge Sqm 2 1021 0.1 204.20 b Continuos Line-at Median Sqm 0 0.1 0.00 c Dash Lines Sqm 0 612.6 0.1 0.00 d Arrow Sqm 74 0.76 Area/Rm 56.24								
b Continuos Line-at Median Sqm 0 0.1 0.00 c Dash Lines Sqm 0 612.6 0.1 0.00 d Arrow Sqm 74 0.76 Area/Rm 56.24								00.00
c Dash Lines Sqm 0 612.6 0.1 0.00 d Arrow Sqm 74 0.76 Area/Rm 56.24								204.20
d Arrow Sqm 74 0.76 Area/Rm 56.24								
e Pedstrian Crossing Sqm 23 6.2 1.4 199.64								199.64

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
f	Table Top Crossing	Sqm	1	6.2	16.82		104.28
2	O Nove Balancetta Basad						
3 a	8-New Balmatta Road Continuos Line-at Edge	Sqm	2	577	0.1		115.40
<u>а</u> b	Continuos Line-at Edge Continuos Line-at Median	Sqm	0	90	0.1		0.00
C	Dash Lines	Sqm	0	346.2	0.1		0.00
d	Arrow	Sqm	42	0.76	Area/Rm		31.92
e	Pedstrian Crossing	Sqm	6	5.5	1.4		46.20
f	Table Top Crossing	Sqm	0	0.0	16.82		0.00
		5411		-			
4	10-Kudumbi Garden (DBS) Road						
a	Continuos Line-at Edge	Sqm	2	375	0.1		75.00
b	Continuos Line-at Median	Sqm	0		0.1		0.00
С	Dash Lines	Sqm	0	225	0.1		0.00
d	Dash Lines	Sqm	0	225	0.1		0.00
е	Arrow	Sqm	36	0.76	Area/Rm		27.36
f	Pedstrian Crossing	Sqm	6	6	1.4		50.40
g	Table Top Crossing	Sqm	0	0	16.82		0.00
5	19a-Arya Samaj Road		+				
	Continuos Line-at Edge	Sqm	2	595	0.1		119.00
	Continuos Line-at Median	Sqm	0	0	0.1		0.00
	Dash Lines	Sqm	0	0	0.1		0.00
	Arrow	Sqm	38	0.76	Area/Rm		28.88
	Pedstrian Crossing	Sqm	5	5.5	1.4		38.50
	Table Top Crossing	Sqm	0	0	16.82		0.00
6	19-b Balmatta Road	Cours	2	330	0.1		66.00
	Continuos Line at Madian	Sqm Sqm	2		0.1		66.00
	Continuos Line-at Median	Sqm	2	330 198	0.1		39.60
	Dash Lines Arrow		48	0.76			36.48
	Pedstrian Crossing	Sqm Sqm	6	12.5	1.4		105.00
	Table Top Crossing	Sqm	3	15.5	16.82		756.90
		94					7.00.00
8	15a-Azizuddin Road						
	Ch.0 to Ch.478.0						
	Continuos Line-at Edge	Sqm	2	717	0.1		143.40
	Continuos Line-at Median	Sqm	2	717	0.1		143.40
	Dash Lines	Sqm	0	430.2	0.1		0.00
	Arrow	Sqm	48		Area/Rm		36.48
	Pedstrian Crossing	Sqm	25	5.5	1.4		192.50
	Table Top Crossing	Sqm	2	5.5	16.82		185.02
9	15b-Jumma Masjid-Old Port Road						
	Continuos Line-at Edge	Sqm	2	966	0.1		193.20
	Continuos Line-at Median	Sqm	2	966	0.1		193.20
	Dash Lines	Sqm	2	579.6	0.1		115.92
	Arrow	Sqm	48	0.76	Area/Rm		36.48
	Pedstrian Crossing	Sqm	34	5.5	1.4		261.80
	Table Top Crossing	Sqm	0	14.5	16.82		0.00
10	20-Bondro Forry Boad						
10	20-Bendre Ferry Road Ch.0 to Ch.478.0			1			
	Continuos Line-at Edge	Sqm	2	1103	0.1		220.60
	Continuos Line at Lage Continuos Line-at Median	Sqm	0	1103	0.1		0.00
	Dash Lines	Sqm	0	661.8	0.1		0.00
	Arrow	Sqm	44	0.76	Area/Rm		33.44
	Pedstrian Crossing	Sqm	34	5.5	1.4		261.80
	Table Top Crossing	Sqm	0	14.5	16.82		0.00
		- Oqiii	† *		.0.02		426.06
		Sqm			Total Qty.		4686.62
		· ·					

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
59	Providing and Fixing of Bus shelter(on prepared foundation) made of SS 304 frame work with brush steel finish, Galvanised Aluminium powder coated roofing and electronic circuit to control its lighting. The seating shall be made of SS 304 tubular sections for seat and back rest.each unit size of 4500mm x 600mm with a minimum backrest support of 450mm. Bus shelter shall have the Side Display board to have 1100X400mm Electronic display. The electronic display board to be of LED Scrolling type with Oval, 4.3 x 5.1mm dia. Diffused. LED's having Amber colour. Dual bin system should be adopted one for recycle waste & other for dry waste. Each bin shall be with minimum capacity of 70Ltrs. Interactive Information Panel-display equipment with information area of 1400 x 1400 and touch screen LED display panel of area not less than 600-900mm with integrated 8mm toughened glass. Advertisement Area 2 nos of size 4500mm x 1650mm and 2100mm x 2000mm shall be integrated within the design of the Bus Shelter. This shall be backlit type with SS box framing sides and back complete. Provision for installing outdoor WiFi Router. The Foundation slab shall be made in min M25 concrete. The cast iron nuts, bolts shall be rust proof hot deep						
1	7a-Milagres Cross Road	Nos.	0				0.00
2	7c-Nandigudda Road	Nos.	0				0.00
3	8-New Balmatta Road	Nos.	0				0.00
4	10-Kudumbi Garden (DBS) Road	Nos.	0				0.00
5	19a-Arya Samaj Road	Nos.	0				0.00
<u>6</u> 7	19bBalmatta Road	Nos.	3				3.00
8	15a-Azizuddin Road 15b-Jumma Masjid-Old Port Road	Nos.	0				0.00
9	20-Bendre Ferry Road	Nos.	0				0.00
	20 Donard Forty Road	Nos.		Total Qty.	l .	I.	3.00
60	Providing & installing of E- toilet with Super structure of the electronic toilet to have asthetic ambience with inner room size 1.2 x 0.8 x 2.4 (LXWXH)meters and Size of electronic toilet overall size in meters 2.30x1.25x2.80 (LXWXH) Total area 35 Sft. with Built-acess controlled main door and side walls made of SS Grade 304,Toilet floor and closet are to be stainless steel of grade 304.E-Toilet shall have Built-in water tank with minimum 225 Lit capacity and Acess controll using coin validator for entering the unit based on automatic payment collection mechanism exit from the unit should be manual.Automatic lights inside the unit with gloves on opening the door.E-Toilet shall be Automatic flushing system which includes Automatic Pre flush cleaning before use,Automatic closet washing mechanism after use and Automatic platform cleaning mechanism programmed after specific numbers.In addition to these flush switch is to be provided for manual operation.Standard features should include heath faucet,exhaust fan and cloth hanger.	Nos.	3				3.00
	The E-Toilet shall have Alert to users-different indication on 'ready to use', busy are to be provided in the unit also with Voice guidence in the unit for users. Web enabled support-GPRS based Real time data to be provided from the unit through web for knowing the health status like number of users per day and coins collected. E-toilet shall have Modular and portable design enabling easy assembling and installation at site. Call ceneter and web portal facilities for registering complience and tracking usage, coin collection etc. Status display in LED, Printed instruction stickers are to be provided. For Advertisment purpose space for advertisement dispaly to be povided on the exterior of the unit for income generation and sustainability. Backup power facility like UPS is to be provided to supplement upto 30 Min Base of the unit to be placed on a suitable concrete structure with a ashthetic finish. (Non SOR Item)						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
61	KSRB 6-2.3: Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 5.0Newton per sqmm (table moulded) with cement mortar 1:6 for basement and superstructu/re including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2. (KPWD 18-19,SI.No.6.7)						
	7a-Milagres Cross Road		4.00	0.00	0.00	2.05	4.70
	Long Wall Short Wall	Cum Cum	4.00 4.00			0.65 0.65	1.79 0.36
	7c-Attavar-Nandigudda Road	Culli	4.00	0.60	0.23	0.65	0.30
	Long Wall	Cum	16.00	3.00	0.23	0.65	7.18
	Short Wall	Cum	16.00		0.23	0.65	1.44
	8-New Balmatta Road						
	Long Wall	Cum	4.00		0.23	0.65	1.79
	Short Wall	Cum	4.00	0.60	0.23	0.65	0.36
	10-Kudumbi Garden (DBS) Road	Cum	4.00	2.00	0.00	0.05	4.70
	Long Wall Short Wall	Cum Cum	4.00 4.00		0.23 0.23	0.65 0.65	1.79 0.36
	19a-Arya Samaj Road	Cuiii	4.00	0.00	0.23	0.05	0.50
	Long Wall	Cum	4.00	3.00	0.23	0.65	1.79
	Short Wall	Cum	4.00		0.23	0.65	0.36
	19b-Balmatta Road						-
	Long Wall	Cum	4.00		0.23	0.65	1.79
	Short Wall	Cum	4.00	0.60	0.23	0.65	0.36
	15a-Azizuddin Road	Cum	16.00	2.00	0.23	0.65	7.18
	Long Wall Short Wall	Cum	16.00 16.00		0.23	0.65	1.44
	15b-Jumma Masjid-Old Port Road	Cuiii	10.00	0.00	0.23	0.03	1.44
	Long Wall	Cum	16.00	3.00	0.23	0.65	7.18
	Short Wall	Cum	16.00			0.65	1.44
	20-Bendre Ferry Road						
	Long Wall	Cum	16.00			0.65	7.18
	Short Wall	Cum	16.00	0.60	0.23	0.65	1.44
		Cum			Total Qty.		45.21
62	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(KPWD 18-19,SI No.15.16)						
	7a-Milagres Cross Road						
	Long Wall	Sqm	4.00	3.00		0.45	5.40
	Short Wall	Sqm	4.00	0.60		0.45	1.08
	7c-Attavar-Nandigudda Road						
	Long Wall	Sqm	16.00			0.45	21.60
	Short Wall	Sqm	16.00	0.60		0.45	4.32
	8-New Balmatta Road Long Wall	Sqm	4.00	3.00		0.45	5.40
	Short Wall	Sqm	4.00			0.45	1.08
	10-Kudumbi Garden (DBS) Road						
	Long Wall	Sqm	4.00			0.45	5.40
	Short Wall	Sqm	4.00	0.60		0.45	1.08
	19a-Arya Samaj Road						
	Long Wall	Sqm	4.00			0.45	5.40
	Short Wall	Sqm	4.00	0.60		0.45	1.08
	19b-Balmatta Road Long Wall	Sqm	4.00	3.00		0.45	5.40
	Short Wall	Sqm	4.00			0.45	1.08
	15a-Azizuddin Road	~ Y.!!		5.50		55	
	Long Wall	Sqm	16.00			0.45	21.60
	Short Wall	Sqm	16.00	0.60		0.45	4.32
	15b-Jumma Masjid-Old Port Road		15.5				0
	Long Wall	Sqm	16.00			0.45	21.60
	Short Wall	Sqm	16.00	0.60		0.45	4.32
	20-Bendre Ferry Road Long Wall	Sqm	16.00	3.00		0.45	21.60
	Short Wall	Sqm	16.00			0.45	4.32
	**	Sqm	13.00	Total Qty.	i	55	136.08
				-			

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
63	Providing and fixing 450mm wide X 600mmX 20mm thk.RIVERWASHED BLACK GRANITE CLADDING on surface of seating as directed by architect (Non SOR Item)						
	7a-Milagres Cross Road						
	Bench 7c-Attavar-Nandigudda Road	Sqm	2.00	3.00		0.60	3.60
	Bench	Sqm	8.00	3.00		0.60	14.40
	8-New Balmatta Road	Oqiii	0.00	0.00		0.00	14.40
	Bench	Sqm	2.00	3.00		0.60	3.60
	10-Kudumbi Garden (DBS) Road		0.00			2.22	
	Bench 19a-Arya Samaj Road	Sqm	2.00	3.00		0.60	3.60
	Bench	Sqm	2.00	3.00		0.60	3.60
	19b-Balmatta Road					5.00	
	Bench	Sqm	2.00	3.00		0.60	3.60
	15a-Azizuddin Road	0	0.00	0.00		0.00	4.4.40
	Bench 15b-Jumma Masjid-Old Port Road	Sqm	8.00	3.00		0.60	14.40
	Bench	Sqm	8.00	3.00		0.60	14.40
	20-Bendre Ferry Road	~ 4 .11	5.00	0.00		0.00	10
	Bench	Sqm	8.00	3.00		0.60	14.40
		Sqm			Total Qty.	ı	75.60
64	Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)						
1	7a-Milagres Cross Road	Nos	4				4.00
2	7c-Nandigudda Road	Nos	4				4.00
3	8-New Balmatta Road	Nos Nos	4				4.00
5	10-Kudumbi Garden (DBS) Road 19a-Arya Samaj Road	Nos	25				4.00 25.00
6	19bBalmatta Road	Nos	20				20.00
7	15a-Azizuddin Road	Nos	4				4.00
8	15b-Jumma Masjid-Old Port Road	Nos	4				4.00
9	20-Bendre Ferry Road	Nos	4				4.00
							73.00
65	Providing and fixing of railing as detail design in MS HOLLOW SECTION and bars (shop drawing to be approved),with vertical support of 0.9m @2.2mc/c , all complete to the satisfaction of the Landscape architect.(Non SOR Item)						
	Handrail						
	Road						
	RHS	Rm	1	50			50.00
	LHS	Rm Rm	1	50		A=	50.00 100.00
		13111					100.00
	Hand Rail of length2.4 meter Steel Qty.					Wt/Rm	
	Horizontal Member-M.S.Box 25x25x3.2mm thk.	KG		3			32.66
	Vertical Member-M.S. Box 50x25x3.2mm thk.	KG		1			
	Verical Bar-Dia 16mm	KG		20	0.475 Area	0.7493296 Thk	7.12
	Logo Plate	KG		1			0.000071
		KG				Total Wight	49.91
	Railing per 1m Weight(A / 2.4 m)	KG				for 2.4 m B=	20.8
	realing per fill weight A / 2.4 III)	ΛĠ				D=	20.0
	Total Railing Weight (A x B)	MT					2.08
66	Providing and Fixing SS 304 Outdoor Dustbin(Pivoted Type and Mounted on SS Poles) of 55 liters capacity all complete to the satisfaction of the Engineer in charge. (NON SOR Item)						
1	7a-Milagres Cross Road	Nos.	4				4.00
2	7c-Nandigudda Road	Nos.	17				17.00
3	8-New Balmatta Road 10-Kudumbi Garden (DBS) Road	Nos. Nos.	4				4.00 4.00
5	19a-Arya Samaj Road	Nos.	4				4.00
6	19bBalmatta Road	Nos.	4				4.00
7	15a-Azizuddin Road	Nos.	8				8.00
8	15b-Jumma Masjid-Old Port Road	Nos.	10				10.00
9	20-Bendre Ferry Road	Nos.	10		T-(-1.51		10.00
		Nos.			Total Qty.		65.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
67	KSRRB M300-14. Half brick circular tree guard, in 2nd class brick, internal diametre 1.25 metres, and height 1.2 metres, above ground and 0.20 metre below ground, bottom two courses laid dry, and top three courses in cement mortar 1:6 (1 cement 6 sand) and the intermediate courses being in dry honey comb masonry, as per design complete, complete as per specifications.KSRRB M300-Edging with 2nd class bricks, laid dry lengthwise(KPWD 18-19,19.93)		5				5.00
68	Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km Item No 17.4 KSRRB M100-4.1-Earth	Cum	1.00	19520.78			19520.78
69	Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5km Item No 17.4 KSRRB M100-4.1-Debris	Cum	1.00	8875.86			8875.86

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 1.2 Rate Analysis of Road & Other Work for DPR 5

	Taking out existing CC interlocking paver blocks from footpath/ c	entral ve	rae includina re	moval of rubbish
	etc., disposal of unserviceable material to the dumping ground, for			
1	and stacking of serviceable material within 50 metre lead as			
	attached)		J	0 (
		1		T
	Basic rate		68.16	
	Add 10% For area weightage (Mangalore City)	Doto	6.82	
		Rate	74.98	Sqm
	KSRRB M200.Dismantling of cement concrete pavement by	v mechs	l anical means i	Ising nueumatic
	tools, breaking to pieces not exceeding 0.02 cum in volume and	•		• .
	disposal of dismantled material stacking serviceble and unservice			
2	specifications.MORTH specification No.202.(Including transporting	g charge	s,loading and ur	nloading for lead
	5km-Extra)			
	(SI No : 18.47)			
	Basic rate		899	
	Initial Lead of 5km		13	ł
	Add 10% For area weightage (Mangalore City)		91.2	
	3 3 \ 3 7/	Rate	1003.20	Cum
	KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M	1200-26. I	Dismantling Kerb	stone by
	Manual means and disposal of dismantled materials with all lifts ar	nd comple	ete as per specifi	cations.
3	MORTH Specification No.202.			
	(Page No.139,S.I.No.18.49)			
	Basic rate		12.00	
	Add 10% For area weightage (Mangalore City)		1.2	
		Rate	13.20	Rmt
	KSRRB M200-13.1. Dismantling of existing structures like culv		•	
	structure comprising of masonry, cement concrete, wood work, s			
4	wherever necessary, sorting the dismantled material, disposal of			
	serviceable material with all lifts complete as per specifications. Concrete Grade M-15 &M-20. MORTH Specification No. 202 (KPW			ans. A. Cement
	Concrete Grade W-13 &W-20. WONTH Specification No. 202 (N. V.	VD SOR	10-19,5.1.10.20)	
	Docio roto		200	
	Basic rate		390	
	Add 10% For area weightage (Mangalore City)		39	
		Rate	429.00	Cum
		L	1	<u> </u>
	KSRRB M200-17.2. Dismantling of existing structures like culv	•	0 /	
	structure comprising of masonry, cement concrete, wood work, s			
_	wherever necessary, sorting the dismantled material, disposal of serviceable material with all lifts complete as per specifications.			
5	Height of 5 m above plinth level excluding Cutting of Rivet–B. Exc			Sections upto a
	(KPWD SOR 18-19,18.33)	idding dic	Sincinibening.	
	(the true don't lo lo, lolos)			
	Pagia rata		1002	1
	Basic rate Add 10% For area weighted (Mangalara City)		1893 189.3	
	Add 10% For area weightage (Mangalore City)	Rate	2082.30	
		Nate	2002.30	IAI I
	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm	thick alo	ng with premix	carpet / surface
	dressing by road roller attached with scarifier without disturbing the			
6	cost of all labour charges, HOM of machineries complete as per sp			
	SI No.19.56)		_	•
	Basic rate		39	
-		1		
I	Add 10% For area weightage (Mangalore City)		3.9	

		Rate	42.90	Sqm	
7	KSRRB 300-46. Scarifying stone metal crust 50mm to 100mm thick 20mm premix carpet / surface dressing and stacking of old services charges, HOM of machinaries complete as per specifications. MOF	able mate	erials including c	ost of all labour	
	Basic rate		39		
	Add 10% For area weightage (Mangalore City)		3.9		
		Rate	42.90	Sqm	
	KSRRB M200-12.1. Dismantling of existing structures like culv	arte brid	daes retaining	 	
8	structure comprising of masonary, cement concrete, woodwork, s wherever necessary, sorting the dismantled material, disposal of serviceable material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar (SI No : 18.23)	teel work	k, including T&P ceable material a	and scaffolding	
	Basic rate		351		
	Add 10% For area weightage (Mangalore City)		35.1		
		Rate	386.10	Cum	
9	Removing B.S slab of drain and stackin as directed by engineer in	charge.(F	2WD 18-19,SI No	0 : 5.32)	
	Basic rate		98		
	Add 10% For area weightage (Mangalore City)		9.8		
		Rate	107.80	Sqm	
10	KSRRB M800-Permanent type barricade in construction zone KSRRB M800-44.1. Construction permanent type barricade made of steel components, 1.5 m high from road level, fitted with 3 horizon 200 mm wide and 4 m long on 50 x 50 x 5 mm angle iron vertical support, painted with yellow and strips, 150 mm in width at an angle of 45°, complete as per IRC:SP:55-2014 complete as per specifical A. With steel components (SI No : 24.45)				
	Basic rate		3829		
	Add 10% For area weightage (Mangalore City)	Data	382.9		
		Rate	4211.90	Eacn	
11	KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301 (SI No : 19.14)	slopes,in	accordance with a a lead of 5.00K	requirements of	
	Basic rate for 1KM Extra for corriege beyond 1km and unto 5km		41 10.24		
	Extra for carriage beyond 1km and upto 5km Add 10% For area weightage (Mangalore City)		5.12		
	Add 1070 For area weightage (mangalore Oity)	Rate	56.36		
			33.30		
12	KSRB 2-4: Refilling available earth around pipe lines, cables i compacting each deposited layer by ramming after watering w including cost of all labour complete as per specifications.(KPWD 1	ith lead	upto 50m. and		
	Basic rate		120		
	Add 10% For area weightage (Mangalore City)		12		
		Rate	132.00	Cum	
13	KSRRB 300-Compaction KSRRB 300-58. Compaction of original g 10 tonnes power roller including filling in depression occuring durin of machinery complete as per specifications. MORTH / Chapter 3		ncluding cost of	all labour, HOM	
	Basic rate		6		
	Add 10% For area weightage (Mangalore City)		0.6		
	Рае 87	Rate	6.60	Sqm	

		.		1		
14	KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 Grade with ce 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine age 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compared foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete specifications. Specification No. KBS 4.1, 4.2. (SI.No. 4.6 of KPWD 18-19)					
	Basic Rate		5900			
	Add 10% For area weightage (Mangalore City)		590			
	/ tau 10/01 of allow Holginago (mangaloto oxy)	Rate	6490.00			
			0.00.00			
15	KSRRB 400 Granular Sub-Base with Coarse Graded Material (table 400-1) KSRRB M400-7. Construction granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt mat speading in uniform layers with motor grader on prepared surface, mixing by mix in place method rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19)					
	Basic Rate		2166			
	Add 10% For area weightage (Mangalore City)		216.6			
		Rate	2382.60	Cum		
16	KSRRB M400-6.1. Construction of granular sub-base by providing of granite / trap / basalt material, mixing in a mechaical mix plant a site, spreading in uniform layers with motor grader on prepa compactor to achieve the desired density, complete as per spergraded granular sub-base material as per 400-1 For Grading- II Ma	t OMC, c red surfa cifications	arriage of mixed ace and compa s. A. Plant Mix	material to work cting with Plate		
	Basic Rate		2400			
	Add 10% For area weightage (Mangalore City)		240			
	That Toyou or allow trong-mago (mailiganoro enj)	Rate	2640.00			
		110100				
17	KSRB 4.2.1 : Providing and laying in position reiforcement cement concrete of design Mix M25 with OP cement @340Kgs,with 20mm and down size graded granite metal coarse aggregate @ 0.47 cum with superplasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 at machine mixed,concrete laid in layer not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, be blocks, anchor blocks & plinths etc., Including cost of labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. (SI No : 4.10 of KPWD 18-19)					
17	blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of cost of reinforcement as per specifications. (SI No : 4.10 of KPWD 18-19)	•	ery,curing,comple	ete but excluding		
	blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of cost of reinforcement as per specifications. (SI No : 4.10 of KPWD 18-19) Basic Rate	•	ery,curing,comple	ete but excluding		
17	blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of cost of reinforcement as per specifications. (SI No : 4.10 of KPWD 18-19)	f machine	ery,curing,comple 6198 619.8	ete but excluding		
	blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of cost of reinforcement as per specifications. (SI No : 4.10 of KPWD 18-19) Basic Rate	•	ery,curing,comple	ete but excluding		
18	blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of cost of reinforcement as per specifications. (SI No : 4.10 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) KSRB 4.6.1 Providing and removing centering, shuttering, struttin for foundations, footings, bases of columns for mass concrete incluses per specifications. Specification No. KSB 4.6.2 (SI No : 4.28 of KPWD 18-19)	Rate g, proppi	6198 619.8 617.80 ng etc.,and remo	Cum oval of formwork labour complete		
	blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of cost of reinforcement as per specifications. (SI No : 4.10 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) KSRB 4.6.1 Providing and removing centering, shuttering, struttin for foundations, footings, bases of columns for mass concrete incluses per specifications. Specification No. KSB 4.6.2 (SI No : 4.28 of KPWD 18-19) Basic Rate	Rate g, proppi	6198 619.8 619.8 6817.80 ng etc.,and remo	Cum oval of formwork labour complete		
	blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of cost of reinforcement as per specifications. (SI No : 4.10 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) KSRB 4.6.1 Providing and removing centering, shuttering, struttin for foundations, footings, bases of columns for mass concrete incluses per specifications. Specification No. KSB 4.6.2 (SI No : 4.28 of KPWD 18-19)	Rate g, proppi	6198 619.8 6817.80 ng etc.,and remote of all materials	Cum oval of formwork labour complete		
	blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of cost of reinforcement as per specifications. (SI No : 4.10 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) KSRB 4.6.1 Providing and removing centering, shuttering, struttin for foundations, footings, bases of columns for mass concrete incluses per specifications. Specification No. KSB 4.6.2 (SI No : 4.28 of KPWD 18-19) Basic Rate	Rate g, proppi	6198 619.8 619.8 6817.80 ng etc.,and remo	Cum oval of formwork labour complete		
	blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of cost of reinforcement as per specifications. (SI No : 4.10 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) KSRB 4.6.1 Providing and removing centering, shuttering, struttin for foundations, footings, bases of columns for mass concrete incluses per specifications. Specification No. KSB 4.6.2 (SI No : 4.28 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work incestraighting,cutting,bending,hooking,placing in position,lapping and/binding wire and anchoring to thr adjoing members wherever necessand wastage shall not be measured and paid) cost of materials,lab specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 (SI No : 4.46.2 of KPWD 18-19)	Rate g, proppi uding cos Rate luding or weldingsary con	6198 619.8 6817.80 ng etc.,and remote of all materials 263 26.3 289.30 g wherever request of machinary co	Cum Oval of formwork labour complete Sqm ired,tying with sign (laps,hooks mplete as per		
18	blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of cost of reinforcement as per specifications. (SI No : 4.10 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) KSRB 4.6.1 Providing and removing centering, shuttering, struttin for foundations, footings, bases of columns for mass concrete incluses per specifications. Specification No. KSB 4.6.2 (SI No : 4.28 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work incestraighting,cutting,bending,hooking,placing in position,lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials,lab specifications.Specification No. KBS4.6.3. do with TMT bars Fe500	Rate g, proppi uding cos Rate luding or weldingsary con	6198 619.8 6817.80 ng etc.,and remot of all materials 26.3 289.30 g wherever requapplete as per des	Cum Oval of formwork labour complete Sqm ired,tying with sign (laps,hooks mplete as per		

	Add 10% For area weightage (Mangalore City)		7078.2			
	Add 10 % For area weightage (Mangalore City)	Rate	77860.20			
		rtato	11000.20	1011		
20	KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction Gravel/Murrum with all lifts & leads, transporting to site, sprompacted to meet requirement of Table No. 300-2 complete as perwatering charges & compaction by vibratory rollercompaction by vibratory Specification No. 305IKPWD 18-19,19.62,17.1 and 17.4)	reading, er specific	grading to requir cations (including	ed slope and cost of earth,		
	Basic Rate		513			
	Add 20km lead (17.4 KSRRB M100-4.1-Cost of haulage excluding loading and unloading MORTH-100/Chapter 1-case 1-Surface Road)=2.0Rs/ Tkm x 1.28 T x 20km		51.2			
	Sub Total		564.2			
	Add 10% For area weightage (Mangalore City)		56.42			
		Rate	620.62	Cum		
21	10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electr sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as specifications.Morth specification No.601 (SI No : 22.1.1 of KPWD 18-19) Basic Rate 4048					
	Add 10% For area weightage (Mangalore City)	Rate	404.8			
		Rate				
22		5 with 1:5 gregate a define a after bleen, concre	404.8 4452.80 5:10 OPC cemer t 0.86cum and fi ggregate confire nding to be as pete strength not laid and compa	Cum nt @160Kgs,with ne aggregate @ ming to IS:383) per Table 600-1, to be less than		
22	Add 10% For area weightage (Mangalore City) KSRRB M600-1.Construction of dry lean cement concrete mix M1 25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse an aggregate cement ration not to excee 15:1. Aggregate gradation cement content to be determined during trail length construction 10Mpa at 7 days,mixed in a batching plant,transported to site,1 compactor,finishing and curing complete as per MORTH specificat (RA attached) Basic Rate	5 with 1:5 gregate a define a after bleen, concre	404.8 4452.80 5:10 OPC cemer t 0.86cum and fi ggregate confire nding to be as pete strength not laid and comparise 601.	Cum at @160Kgs,with ane aggregate @ aning to IS:383) are Table 600-1, are to be less than acting with palte		
22	Add 10% For area weightage (Mangalore City) KSRRB M600-1.Construction of dry lean cement concrete mix M1 25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse an aggregate cement ration not to excee 15:1. Aggregate gradation cement content to be determined during trail length construction 10Mpa at 7 days,mixed in a batching plant,transported to site,I compactor,finishing and curing complete as per MORTH specificat (RA attached)	5 with 1:t gregate at d fine a after ble n, concre Manually ions Clau	404.8 4452.80 5:10 OPC cemer t 0.86cum and fi ggregate confirm nding to be as pete strength not laid and comparise 601. 3680 368	Cum It @160Kgs,with The aggregate @ The ming to IS:383) The per Table 600-1, The be less than to be less than the acting with palte		
22	Add 10% For area weightage (Mangalore City) KSRRB M600-1.Construction of dry lean cement concrete mix M1 25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse an aggregate cement ration not to excee 15:1. Aggregate gradation cement content to be determined during trail length construction 10Mpa at 7 days,mixed in a batching plant,transported to site,1 compactor,finishing and curing complete as per MORTH specificat (RA attached) Basic Rate	5 with 1:5 gregate a define a after ble n, concre	404.8 4452.80 5:10 OPC cemer t 0.86cum and fi ggregate confire nding to be as pete strength not laid and comparise 601.	Cum at @160Kgs,with ane aggregate @ aning to IS:383) are Table 600-1, acting with palte		
22	Add 10% For area weightage (Mangalore City) KSRRB M600-1.Construction of dry lean cement concrete mix M1 25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse an aggregate cement ration not to excee 15:1. Aggregate gradation cement content to be determined during trail length construction 10Mpa at 7 days,mixed in a batching plant,transported to site,1 compactor,finishing and curing complete as per MORTH specificat (RA attached) Basic Rate	5 with 1:5 pregate at d fine a after ble n, concre Manually ions Clau Rate Rate size grar thick laye ad lift etc.	404.8 4452.80 5:10 OPC cemer t 0.86cum and fi ggregate confirm nding to be as pete strength not laid and comparise 601. 3680 368 4048.00 hite coarse aggress and well comparises and well comparises complete. (exception)	Cum Int @160Kgs,with The aggregate @ The ming to IS:383) The per Table 600-1, The be less than for the		
	Add 10% For area weightage (Mangalore City) KSRRB M600-1.Construction of dry lean cement concrete mix M1 25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse an aggregate cement ration not to excee 15:1. Aggregate gradation cement content to be determined during trail length construction 10Mpa at 7 days,mixed in a batching plant,transported to site,l compactor,finishing and curing complete as per MORTH specificat (RA attached) Basic Rate Add 10% For area weightage (Mangalore City) Providing and laying cement concrete using 20mm and down aggregates of ready mixed concrete for RCC works laid in 15 em vibrating curing etc., for all super structure works with all lead ar steel and fabrication charges) Note: The RMC should be obtained only from the plants ce CE, C&B letter, AE2, 2015-16, Dt. 12-09-2015 Ready mixed Cement concrete M-25	5 with 1:5 pregate at d fine a after ble n, concre Manually ions Clau Rate Rate size grar thick laye ad lift etc.	404.8 4452.80 5:10 OPC cemer t 0.86cum and fi ggregate confirm nding to be as pete strength not laid and comparise 601. 3680 368 4048.00 hite coarse aggress and well comparises and well comparises complete. (exception)	Cum Int @160Kgs,with The aggregate @ The ming to IS:383) The per Table 600-1, The be less than for the		
	Add 10% For area weightage (Mangalore City) KSRRB M600-1.Construction of dry lean cement concrete mix M1 25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse an aggregate cement ration not to excee 15:1. Aggregate gradation cement content to be determined during trail length construction 10Mpa at 7 days,mixed in a batching plant,transported to site,l compactor,finishing and curing complete as per MORTH specificat (RA attached) Basic Rate Add 10% For area weightage (Mangalore City) Providing and laying cement concrete using 20mm and down aggregates of ready mixed concrete for RCC works laid in 15 em vibrating curing etc., for all super structure works with all lead ar steel and fabrication charges) Note: The RMC should be obtained only from the plants ce CE, C&B letter, AE2, 2015-16, Dt. 12-09-2015 Ready mixed Cement concrete M-25 (KPWD,4.49.2)	5 with 1:5 pregate a d fine a after ble n, concre Manually ions Clau Rate Rate size grar thick laye ad lift etc.	404.8 4452.80 5:10 OPC cemer t 0.86cum and fi ggregate confirm nding to be as pete strength not laid and comparise 601. 3680 368 4048.00 nite coarse aggrers and well comparises and well comparises and comparises and comparises and comparises and comparises and comparises and comparises and comparises and comparison complete.	Cum It @160Kgs,with ne aggregate @ ming to IS:383) per Table 600-1, to be less than acting with palte Cum egates and fine pacted including culsive of cost of of India as per		
	KSRRB M600-1.Construction of dry lean cement concrete mix M1 25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse an aggregate cement ration not to excee 15:1. Aggregate gradation cement content to be determined during trail length construction 10Mpa at 7 days, mixed in a batching plant, transported to site, 1 compactor, finishing and curing complete as per MORTH specificat (RA attached) Basic Rate Add 10% For area weightage (Mangalore City) Providing and laying cement concrete using 20mm and down aggregates of ready mixed concrete for RCC works laid in 15 em vibrating curing etc., for all super structure works with all lead ar steel and fabrication charges) Note: The RMC should be obtained only from the plants cereaty mixed Cement concrete M-25 (KPWD,4.49.2) Basic Rate	5 with 1:5 pregate a d fine a after ble n, concre Manually ions Clau Rate Rate size grar thick laye ad lift etc.	404.8 4452.80 5:10 OPC cemer t 0.86cum and fi ggregate confirm nding to be as pete strength not laid and comparise 601. 3680 368 4048.00 hite coarse aggrers and well comparises and well comparises and comparises and comparises and comparises and comparises and comparison an	Cum It @160Kgs,with ne aggregate @ ming to IS:383) per Table 600-1, to be less than acting with palte Cum egates and fine pacted including culsive of cost of of India as per		

24	KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per MORTH specifications Clause 602.with M40 @420Kg per cum Cement,C.A,0.67 cum F.A.044Cum (SI No : 22.2.2 of KPWD 18-19) Basic Rate 5765					
	Add 10% For area weightage (Mangalore City)		576.5			
		Rate	6341.50	Cum		
25	Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealar manufacturer recommends and pouring the sealant all complete including material, manpower and a shown on drawing and as per MORTH specifications clause 602. (Non SOR Item)					
	Rate Approved as per EOI by MD MSCL Mangalore, Refer	D 4	445	D (
	Sr.No.2	Rate	115	Rmt		
26	KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints in concrete pavement using epoxy mortar concrete complete No.3005.1 (SI No : 35.8 of KPWD 18-19)	•	•	•		
	Basic Rate		331			
			33.1			
	Add 10% For area weightage (Mangalore City)	Data		Dest		
		Rate	364.10	KMt		
27	Providing and laying at or near ground level factory made Median kin position to the required line, level and curvature, jointed with sand), including making joints with or without grooves (thickness of more than 5mm), including making drainage opening wherever req (Precast C.C. kerb stone shall be approved by Engineer-in-charge) (RA Attached)	cement of joints e uired con	mortar 1:3 (1 ce except at sharp o	ement: 3 coarse curve shall not to		
	Rate Arrived as per Rate analysis					
	-		47700.00			
	Basic Rate		17708.82			
	Add 10% For area weightage (Mangalore City)		1770.88			
		Rate	19479.70	Cum		
28	Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comple(SI No : 5.3 of KPWD 18-19)	of all n ete	naterials,labour,h			
	Basic Rate of one kerb stone of M15 Grade =0.0279 cum	Rate	421			
	Rate for 1 cum of Kerb stone		15089.61			
	Add diferance in cement content of M15 to M20 Grade		392			
	Total Rate		15481.61			
	Add 10% For area weightage (Mangalore City)		1548.16			
	india 1070 for area meigriage (mangalere entr)	Rate	17029.77	Cum		
		ivare	11029.11	Juli		
	1			1		

29	Providin and fixing pre cast solid concrete water table(longitu CC M20 and jointed with CM 1:3 and finishing cutting, include			
29	machinery,loading,unloading,lead and lift,transportation etc.,co		iateriais,iabou	r, me charges
	(SI No : 5.3 of KPWD 18-19)			1
	Basic Rate of one kerb stone of M15 Grade =0.0279 cum	Rate	421	
	Rate for 1 cum of Water Table		15089.61	
	Add diferance in cement content of M15 to M20 Grade		392	
	Total Rate		15481.61	
	Add 10% For area weightage (Mangalore City)		1548.16	
		Rate	17029.77	Cum
30	Reusing existing kerb stone obtained from dismantaling of exist and laying at or near ground level in position to the required lin cement mortar 1:3 (1 cement: 3 coarse sand), including making grooves (thickness of joints except at sharp curve shall not to remark the same of the sa	e, level and cur g joints with or v nore than 5mm)	vature, jointed vithout),	with
30	including transportation to site from stack yard, making drainage as per direction of Engineer-in-charge (length of finished kerb engreest C.C. kerb stone shall be approved by Engineer-in-charge)	edging shall be		
	Basic Rate (RA Attached)		52.94	
	Add 10% For area weightage (Mangalore City)		5.29	
		Rate	58.23	Rmt
31	new plastered concrete surfaces, with materials, labour complet (SI No : 24.1 of KPWD 18-19) Basic Rate	l l	80	
	Add 10% For area weightage (Mangalore City)		8	
	That 10701 of area weightage (Mangalere etty)		U	
		Rate	88	Sqm
32	P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (Rate analysis attached)			-
32	(Rate analysis attached) Rate Arrived as per Rate analysis		ectrical ducting	j.
32	(Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate		ectrical ducting	j.
32	(Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30%		ectrical ducting 10764 -3229.2).
32	(Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate		ectrical ducting).
32	(Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total		10764 -3229.2 7534.8).
32	(Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total	Manhole for ele	10764 -3229.2 7534.8 376.74 7911.54).
	(Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total Fixing Charges @5% P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at r (Rate analysis attached) Basic Rate	Manhole for ele	10764 -3229.2 7534.8 376.74 7911.54	Nos.
	(Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total Fixing Charges @5% P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at r (Rate analysis attached) Basic Rate Discount 30%	Manhole for ele	10764 -3229.2 7534.8 376.74 7911.54 on SWD.	Nos.
	(Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total Fixing Charges @5% P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at r (Rate analysis attached) Basic Rate Discount 30% Sub Total	Manhole for ele	10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3	Nos.
	(Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total Fixing Charges @5% P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at r (Rate analysis attached) Basic Rate Discount 30%	Rate raised footpath of	10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3 251.265	Nos.
	(Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total Fixing Charges @5% P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at r (Rate analysis attached) Basic Rate Discount 30% Sub Total	Manhole for ele	10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3	Nos.
333	(Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total Fixing Charges @5% P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at r (Rate analysis attached) Basic Rate Discount 30% Sub Total	Rate raised footpath o	10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3 251.265 5276.565	Nos.
	(Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total Fixing Charges @5% P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at r (Rate analysis attached) Basic Rate Discount 30% Sub Total Fixing Charges @5% P/F FRP Water gully cover with frame (25T) 600mmx500 mm	Rate raised footpath o	10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3 251.265 5276.565	Nos.
333	Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total Fixing Charges @5% P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at r (Rate analysis attached) Basic Rate Discount 30% Sub Total Fixing Charges @5% P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached)	Rate raised footpath o	10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3 251.265 5276.565	Nos.
333	(Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total Fixing Charges @5% P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at r (Rate analysis attached) Basic Rate Discount 30% Sub Total Fixing Charges @5% P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) Basic Rate Discount 30% Sub Total Basic Rate Discount 30% Sub Total	Rate raised footpath o	10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3 251.265 5276.565 n.	Nos.
333	Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total Fixing Charges @5% P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at r (Rate analysis attached) Basic Rate Discount 30% Sub Total Fixing Charges @5% P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) Basic Rate Discount 30% Basic Rate Discount 30%	Rate raised footpath o	10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3 251.265 5276.565 n.	Nos.

34	KSRRB M300- Wrought iron and mild steel welded work KSRRB M300-18. Wrought iron and welded work (using angles, square bars, tees and channel grills, gratings with grating frames, gate guards of any size and design etc. including cost of screens and welding rods or bolts and nuts fixed in position but without the cost of excavation and concrete for fixing which will be paid scomplete as per specifications.(KPWD,18-19,SI.No.19.97)					
	Basic Rate		7187			
	Add 10% For area weightage (Mangalore City)		718.7			
	man 10701 of aroa moightage (mangalere eny)	Rate		Quintal		
		Nato	7 000.7	Quintai		
36	KSRB 12-8.2 : Constructing brick masonry inspection chamber inside dimension) for pipeline with one or two inlets, using tak designation 50 in cement mortar 1:5, C.I cover with frame (light duweight of cover with frame to be not less than 38 kg (weight of R.C.C. top slab with cement concrete M 15 with 20mm and downs 5 with 40mm and downsize granite metal inside plastering 12m smooth with a floating coat of cement on walls and bed concrete cost of materials, labour charges, curing complete as per specifical (P.No. 74/I.No.11.52 of PWD SR 2018-19)	ole mould uty) 455x0 cover 23 size gran m thick v complete	ded non-modulal 610mm internal of 3kg and weight of ite metal , found with cement mod as per standard	r bricks of class dimensions, total of frame 15 kg) ation concrete M rtar 1:3, finished design including		
	Basic Rate		8296			
	Add 10% For area weightage (Mangalore City)		829.6			
	Add 10 /8 For area weightage (Mangalore City)	Rate	9125.6			
37	jointing materials,testing apparatus and water for testi g etc as a No.41,Item No.7,KUWSDB SOR 2016-17) Basic Rate Add 10% on Labor Charges=Rs.47,For area weightage	directed b	297 297			
	(Mangalore City)	Rate	301.7	Rm		
38	KSRB 11-18-17.1 : Providing and fixing sand cast iron trap of 100n screwed down or hinged grating with or without vent arm including floors, cost of materials, labour, testing, complete as per specificati (PWD SR 2018-19, SI.No.12.89)	cutting a	nd making good	the walls and		
	Basic Rate		830			
	Add 10% For area weightage (Mangalore City)		83			
		Rate	913	Nos.		
38	KSRRB M2200- Providing Weep Holes KSRRB M2200-8. Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per specifications MORTH Specification No.2706 & 2200 (PWD SR 2018-19, SI.No.28.10)					
	Basic Rate		147	 		
	Add 10% For area weightage (Mangalore City)		147			
	That 1070 For area weightage (Mangalore City)	Rate	161.7			
		Nate	101.7	1103.		
	1	1	I .	1		

40	KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum minim				
	Basic Rate		5022		
	Add 10% For area weightage (Mangalore City)	Dete	502.2 5524.20		
		Rate	5524.20	KIII	
41	Providing and laying Dia 200mm HDPE Electrical pipe Conduits v dimensional ratio of 13.5, Deflection not greater than 5% when exp 90°C under the over burden soil presuure and other physical prop NEMA TC7. The expected service life of HDPE pipe conduits at years. (Market Rate)	oosed to t erties cor	the normal opera informing to AST	iting temparature MF 2160 and /or	
	Basic Rate		1794		
	Deduct GST @18%		-322.92		
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123)		78		
	Add 10% For area weightage (Mangalore City)		7.8		
42	Providing and laying Dia 160mm HDPE Electrical pipe Conduits v dimensional ratio of 13.5, Deflection not greater than 5% when exp 90°C under the over burden soil presuure and other physical prop NEMA TC7. The expected service life of HDPE pipe conduits an	oosed to t erties cor	the normal opera informing to AST	er layer with ribs, iting temparature MF 2160 and /or	
	vears.(Market Rate)		Solies shall flot	be less than 50	
	years.(Market Rate)		,		
	Basic Rate		1215		
	· · ·		,		
	Basic Rate Deduct GST @18% Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		1215 -218.7		
	Basic Rate Deduct GST @18% Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123)	Rate	1215 -218.7 66		
43	Basic Rate Deduct GST @18% Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123)	Rate	1215 -218.7 66 6.6 1068.90	Rm	
43	Basic Rate Deduct GST @18% Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Add 10% For area weightage (Mangalore City) Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material.	Rate to be pla	1215 -218.7 66 6.6 1068.90 acced at an interv	Rm val of 1.5 meter.	
43	Basic Rate Deduct GST @18% Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Add 10% For area weightage (Mangalore City) Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate)	Rate	1215 -218.7 66 6.6 1068.90 aced at an interv	Rm val of 1.5 meter.	
43	Basic Rate Deduct GST @18% Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Add 10% For area weightage (Mangalore City) Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate)	Rate to be pla	1215 -218.7 66 6.6 1068.90 aced at an interv	Rm val of 1.5 meter. Nos.	
	Basic Rate Deduct GST @18% Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Add 10% For area weightage (Mangalore City) Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate (without GST@18%) Providing and Fixing Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material.	Rate to be pla	1215 -218.7 66 6.6 1068.90 acced at an interval 1003 1003.00 acced at an interval 1947	Rm val of 1.5 meter. Nos. val of 1.5 meter.	
	Basic Rate Deduct GST @18% Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Add 10% For area weightage (Mangalore City) Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate (without GST@18%) Providing and Fixing Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate)	Rate to be pla	1215 -218.7 66 6.6 1068.90 aced at an interval 1003 1003.00 aced at an interval	Rm val of 1.5 meter. Nos. val of 1.5 meter.	
	Basic Rate Deduct GST @18% Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Add 10% For area weightage (Mangalore City) Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate (without GST@18%) Providing and Fixing Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate)	Rate to be pla Rate to be pla Rate ubricant ind convey	1215 -218.7 66 6.6 1068.90 acced at an interval 1003.00 acced at an interval 1947 1947.00 inner layer for I	Rm val of 1.5 meter. Nos. val of 1.5 meter. CT fibre cables including loading	
44	Basic Rate Deduct GST @18% Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Add 10% For area weightage (Mangalore City) Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate (without GST@18%) Providing and Fixing Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate (without GST@18%) Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Liccomforming to ASTMF 2160 and /or equivalent indian standard and unloading at both destination and rolling,lowering into trenchetc.Complete.	Rate to be pla Rate to be pla Rate ubricant ind convey	1215 -218.7 66 6.6 1068.90 acced at an interval 1003.00 acced at an interval 1947 1947.00 inner layer for I	Rm val of 1.5 meter. Nos. Nos. CT fibre cables including loading dijointing of pipe	

	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		36		
	No.50,Pg.No.123)				
	Add 10% For area weightage (Mangalore City)		3.6		
		Rate	601.30	Rm	
	Consulting and Application of agency are visual for atomic of the final life				
46	Supplying and Application charges required for stamping the freshlincluded in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer.	ce accura	ately to the requi	red level,shape	
	Basic rate		624.00		
		Rate	624.00	Sqm	
				•	
47	Cutting of Control joints panels(in Footpath) at suitable required lo	cations u	sing using tools	and tackles.	
	Basic rate		59.00		
		Rate	59.00	Sqm	
				•	
48	Providing and laying heavy duty cobble stones 75mm thick, using of blocks of approved size, shape and colour with a minimum com 30mm thick sand bed (average thickness) and compacting with force thereby forcing part of sand underneath to come up in b surface joints into its final level, including cost of materials, labour specifications. (KPWD SR 2018-19,SI No: 14.7)	npressive i plate vil etween j	strength of 281 orator having 3 oints, final comp	kg per sqm over tons compaction paction of paver	
	Basic rate		1114		
	Add 10% For area weightage (Mangalore City)		111.4		
		Rate	1225.40		
		710.00	1220110	94	
49	KSRRB M500-17. Providing and laying dense graded bituminous specified grading, premixed with VG30 grade bituminous binder a laying to the required grade, level and alignment, rolling with smo to achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TPI (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 16-17,S.I.No	and, trans oth whee complete H capacit	sporting the hot led, vibratory an in all respects by H.M.P. with se	mix to work site, d tandem rollers complete as per	
	Basic rate		7839		
	Add 10% For area weightage (Mangalore City)		783.9		
	, , , , , , , , , , , , , , , , , , ,	Rate	8622.90		
50	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, aggregates of specified grading, premixed with bituminous binder and filler, transporting the site, laying with a paver finisher to the required grade, level and alignment, rolling with so vibratory and tandem rollers to achieve the desired compaction as per MORTH specificated 500.9 complete in all respects complete as per specifications. MORTH Specification No. 50 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bituments				
	Decision to	1			
	Basic rate		8761		
	Add 10% For area weightage (Mangalore City)	Dut	876.1		
		Rate	9637.10	cum	

KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, Supply and Installation of retro-reflective cautionary, mandatory & Informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC:67:2012 specifications & fixed over 4mm thick aluminium composite panel sheet having minimum 0.30 mm thick aluminum skin on both sides & fixed over a support frame of 25X25X3mm MS angle and mounted on 75 mm dia OR 75X75X6mm mild steel angle to Total height 2.70 m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60mm below 51 ground level, the sign post should be painted with be coat of red oxide paint and two coats of synthetic enamel paint of black and white colour with bands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45cmX45cmX60cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the works as directed be engineer in-charge. 10 years warranty for Retro Reflective Sheeting from the original sheeting manufactures as per clause 6.9 in IRC: 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. 900MM Equilateral Triangle-TYPE XI (KPWD 18-19,SI No: 24.2.1) **Basic Rate** 3511 Add 10% For area weightage (Mangalore City) 351.1 Rate 3862.10 Nos KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, Supply and Installation of retro-reflective cautionary, mandatory & Informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC:67:2012 specifications & fixed over 4mm thick aluminium composite panel sheet having minimum 0.30 mm thick aluminum skin on both sides & fixed over a support frame of 25X25X3mm MS angle and mounted on 75 mm dia OR 75X75X6mm mild steel angle to Total height 2.70 m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60mm below 52 ground level, the sign post should be painted with be coat of red oxide paint and two coats of synthetic enamel paint of black and white colour with bands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45cmX45cmX60cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the works as directed be engineer in-charge. 10 years warranty for Retro Reflective Sheeting from the original sheeting manufactures as per clause 6.9 in IRC: 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. 900MM Octagon Stop Board-TYPE XI (KPWD 18-19,SI No: 24.2.6) **Basic Rate** 4958 Add 10% For area weightage (Mangalore City) 495.8 Rate 5453.80 Nos KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, Supply and Installation of retro-reflective cautionary, mandatory & Informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC:67:2012 specifications & fixed over 4mm thick aluminium composite panel sheet having minimum 0.30 mm thick aluminum skin on both sides & fixed over a support frame of 25X25X3mm MS angle and mounted on 75 mm dia OR 75X75X6mm mild steel angle to Total height 2.70 m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60mm below 53 ground level, the sign post should be painted with be coat of red oxide paint and two coats of synthetic enamel paint of black and white colour with bands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45cmX45cmX60cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the works as directed be engineer in-charge.

10 years warranty for Retro Reflective Sheeting from the original sheeting manufactures as per clause 6.9 in IRC: 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. (RPWD 18-19,SI No : 24.2.3) Basic Rate Add 10% For area weightage (Mangalore City) Rate 311.8 Add 10% For area weightage (Mangalore City) Rate 3429.80 (Nos KSRRB M800-3. Direction and Place Identification Signs upto 0.9 sgm Size Board-Manufacturing, supply and installation of retro- reflectorised cautionary, mandatory and information sign and to cube corner micro prismatic grade sheeting confirming to type XI standards of IRC: 67.2012 specifications & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild stell angle of total height 2.70m with claer height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively limit yieked to the ground by means of oundation with M20 grade cement concrete of 45 cm x45 cm x 60 cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by engineer in charge. 10 years warranty for retro reflective sheeting from the original sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. (KPWD 18-19,SI No : 24.3) Basic Rate Direction and Place Identification Signs with size more than 0.9 sgm Size Board: Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause Direction and Place Identification Signs with size more than 0.9 sgm Size Board: Providing and er					
KSRRB M800-3. Direction and Place Identification Signs upto 0.9 sqm Size Board-Manufacturing, supply and installation of retro-reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC :67:2012 specifications & Kive over 4 mm thick aluminium composite panel sheet having minimum 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mills steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45 cm x45 cm x 60 cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by engineer in charge. 10 years warranty for retro reflective sheeting from the original sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. (KPWD 18-19,SI No : 24.3) Basic Rate 692.7 Add 10% For area weightage (Mangalore City) 79.0 Sqm Size Board: Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 80.9 sgm supported on a mild steel single angle iron post 75 x 75 x 5 mm. 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Basic Rate 7926.60 Sqm KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, supply and installation of retro-reflectorised cautionary, mandatory and informato		IRC: 2012 & a certified copy of three years outdoor exposure repor product offered shall be obtained from the supplier. 600MM Circle-TYPE XI	_	·-	
KSRRB M800-3. Direction and Place Identification Signs upto 0.9 sqm Size Board-Manufacturing, supply and installation of retro-reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC :67:2012 specifications & Kive over 4 mm thick aluminium composite panel sheet having minimum 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mills steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45 cm x45 cm x 60 cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by engineer in charge. 10 years warranty for retro reflective sheeting from the original sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. (KPWD 18-19,SI No : 24.3) Basic Rate 692.7 Add 10% For area weightage (Mangalore City) 79.0 Sqm Size Board: Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 80.9 sgm supported on a mild steel single angle iron post 75 x 75 x 5 mm. 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Basic Rate 7926.60 Sqm KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, supply and installation of retro-reflectorised cautionary, mandatory and informato		Basic Rate		3118	
KSRRB M800-3. Direction and Place Identification Signs upto 0.9 sqm Size Board-Manufacturing, supply and installation of retro-reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC. 67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Milld steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign posts should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45 cm x45 cm x 60 cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by engineer in charge. 10 years warranty for retro reflective sheeting from the original sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified copy of three yeas outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. (KPWD 18-19,SI No : 24.3) Basic Rate Add 10% For area weightage (Mangalore City) Direction and Place Identification Signs with size more than 0.9 sqm Size Board: Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 9.0 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Basic Rate KSRRB M800-2. Retro-Reflectorise					
KSRRB M800-3. Direction and Place Identification Signs upto 0.9 sgm Size Board-Manufacturing, supply and installation of retro-reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC .677:2012 specifications & tixed over 4 mm thick aluminium composite panel sheet having minimum 0.30 thick aluminium skin on both sides & tixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Milid steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by weans of foundation with M20 grade cement concrete of 45 cm x45 cm x 60 cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by engineer in charge, 10 years warranty for retro reflective sheeting from the original sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. (KPWD 18-19,SI No : 24.3) Basic Rate 692.7 Add 10% For area weightage (Mangalore City) 692.7 Direction and Place Identification Signs with size more than 0.9 sgm Size Board: Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 30.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sgm supported on a mild steel single angle iron post 75 x 75 x 75 x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Basic Rate 7926.60 Sqm KSRRB M800		Add 10% For area weightage (Mangalore City)	D - 1 -		
and installation of retro- reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC -67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x5mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45 cm x45 cm x 60 cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by engineer in charge. 10 years warranty for retro reflective sheeting from the original sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. (KPWD 18-19.SI No : 24.3) Basic Rate 6927 Add 10% For area weightage (Mangalore City) 692.7 Direction and Place Identification Signs with size more than 0.9 sqm Size Board: Providing and erecting direction and place identification retror-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Basic Rate 7206 KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, supply and installation of retro-reflectorised cautio			Rate	3429.80	NOS
Add 10% For area weightage (Mangalore City) Rate 7619.70 Sqm Direction and Place Identification Signs with size more than 0.9 sqm Size Board: Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Basic Rate 7206 Add 10% For area weightage (Mangalore City) 720.6 Rate 7926.60 Sqm KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, supply and installation of retro-reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to 600x800 MM type XI standards of IRC: 67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with (KPWD18-19,24.2.4) Basic Rate 4049 Add 10% For area weightage (Mangalore City) Rate 4453.90 Nos KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fittled with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications	54	and installation of retro- reflectorised cautionary, mandatory and in corner micro prismatic grade sheeting confirming to type XI standatover 4 mm thick aluminium composite panel sheet having minimun & fixed over a support frame of 25x25x3 mm MS angle and mounted steel angle of total height 2.70m with clear height of not less than 2 of the sign board & 60 cm below ground level. The sign post should paint and white colour with brands of 30 cm height alternatively firm foundation with M20 grade cement concrete of 45 cm x45 cm x 60 materials, equipment, machinery & labour with all leads and lifts, lo completion of the work as directed by engineer in charge. 10 years the original sheeting manufacturer as per clause 6.9 in IRC 2012 & exposure report from an independent test lab for the product offere	formatory ards of IR 0.30 thiced on 75n 0.10 m fro d be paint ally fixed to cm inclu ading cha warranty a certifie	y signboards made C:67:2012 spectock aluminium skirum dia OR 75x75 m the ground level ted with one coaff the ground by a ding cost & converges necessary for retro reflectived copy of three years.	de out of cube ifications & fixed n on both sides 5x6mm Mild vel to the bottom to of red oxide means of eyance of all for satisfactory ve sheeting from vears outdoor
Add 10% For area weightage (Mangalore City) Rate 7619.70 Rate 7619.70 Sqm Direction and Place Identification Signs with size more than 0.9 sqm Size Board: Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Basic Rate 7206 Add 10% For area weightage (Mangalore City) 720.6 Rate 7926.60 Sqm KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, supply and installation of retro-reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to 600x800 MM type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x5mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with (KPWD18-19,24.2.4) Basic Rate 4049 Add 10% For area weightage (Mangalore City) Rate 4453.90 Nos KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fittled with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per spec		Basic Rate		6927	
Direction and Place Identification Signs with size more than 0.9 sqm Size Board: Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Basic Rate 7206 Add 10% For area weightage (Mangalore City) Rate 7926.60 Sqm KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, supply and installation of retro-reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to 600x800 MM type XI standards of IRC:67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with (KPWD18-19,24.2.4) Basic Rate 4049 Add 10% For area weightage (Mangalore City) Rate 4453.90 Nos KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications					
Direction and Place Identification Signs with size more than 0.9 sqm Size Board: Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Basic Rate 7206 Add 10% For area weightage (Mangalore City) 720.6 Rate 7926.60 Sqm KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, supply and installation of retro-reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to 600x800 MM type XI standards of IRC: 67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with (KPWD18-19,24.2.4) Basic Rate 4049 Add 10% For area weightage (Mangalore City) Rate 4453.90 Nos KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications		Add 10% For area weightage (Mangalore City)	D - 1 -		0
Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Basic Rate 7206 Add 10% For area weightage (Mangalore City) 720.6 KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, supply and installation of retro-reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to 600x800 MM type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with (KPWD18-19,24.2.4) Basic Rate 4049 Add 10% For area weightage (Mangalore City) Rate 4049 Add 10% For area weightage (Mangalore City) Rate 4049 Add 10% For area weightage of Salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications			Rate	7619.70	Sqm
Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Basic Rate 7206 Add 10% For area weightage (Mangalore City) 720.6 Rate 7926.60 Sqm KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, supply and installation of retro-reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to 600x800 MM type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with (KPWD18-19,24.2.4) Basic Rate 4049 Add 10% For area weightage (Mangalore City) Rate 4453.90 Nos KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications					
Add 10% For area weightage (Mangalore City) Rate 7926.60 Sqm KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, supply and installation of retro- reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to 600x800 MM type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with (KPWD18-19,24.2.4) Basic Rate 4049 Add 10% For area weightage (Mangalore City) Rate 4453.90 Nos KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications	55	intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceed 0.9 sqm supported on a mild steel single angle iron post 75 x 75 6 mm, 2 Nos. firmly fixed to the ground by means of properly design	ing x ned found	dation with M 15	
Add 10% For area weightage (Mangalore City) Rate 7926.60 Sqm KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, supply and installation of retro- reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to 600x800 MM type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with (KPWD18-19,24.2.4) Basic Rate 4049 Add 10% For area weightage (Mangalore City) Rate 4453.90 Nos KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications		Rasic Rate		7206	
KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, supply and installation of retro- reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to 600x800 MM type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with (KPWD18-19,24.2.4) Basic Rate 4049 Add 10% For area weightage (Mangalore City) Rate 4453.90 Nos KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications					
KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, supply and installation of retro- reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to 600x800 MM type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with (KPWD18-19,24.2.4) Basic Rate 4049 Add 10% For area weightage (Mangalore City) Rate 44453.90 Nos KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications		Add 10% For area weightage (Mangalore City)			
reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to 600x800 MM type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with (KPWD18-19,24.2.4) Basic Rate 4049 Add 10% For area weightage (Mangalore City) 404.9 KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications			Rate	7926.60	Sqm
reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to 600x800 MM type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with (KPWD18-19,24.2.4) Basic Rate 4049 Add 10% For area weightage (Mangalore City) 404.9 KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications					
Add 10% For area weightage (Mangalore City) Rate 404.9 Rate 4453.90 Nos KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications	56	reflectorised cautionary, mandatory and informatory signboards may grade sheeting confirming to 600x800 MM type XI standards of IRO mm thick aluminium composite panel sheet having minimun 0.30 the over a support frame of 25x25x3 mm MS angle and mounted on 75 of total height 2.70m with clear height of not less than 2.10 m from board & 60 cm below ground level. The sign post should be painted white colour with brands of 30 cm height alternatively firmly fixed to	nde out of C:67:201 hick alum of the grour dia (distribution)	cube corner mid 2 specifications inium skin on bo OR 75x75x6mm and level to the bo e coat of red oxid	cro prismatic & fixed over 4 th sides & fixed Mild steel angle ttom of the sign le paint and
Add 10% For area weightage (Mangalore City) Rate 404.9 Rate 4453.90 Nos KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications		Basic Rate		4049	
KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications					
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	57	diecast in aluminium, resistant to corrosive effect of salt and gri concrete or asphaltic surface by drilling hole 30 mm upto a de bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 co	it, fitted v	with lense reflect mm and bedd	tors, installed in ed in a suitable

Add 10% For area weightage (Mangalore City) Rate 317.90 Nos. Road Marking with hot applied Thermoplastic Compound with Reflectirsing Glass Beads on Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectoris glass beads at 250 gms and 2 ltr of primer per sqm area, thickness of 2.5mm is exclusive of surface appl glass beads as per RIC-35. The finished surface to be level, uniform and free from streak and holes completed as per specifications. MORTH specification No.803 (KPWD 1819.SI No : 24.15) Basic Rate Add 10% For area weightage (Mangalore City) Rate 42.9 Providing and Fixing of Bus shelter(on prepared foundation) made of SS 304 frame work with brush st finish, Calvanised Aluminium powder coated roofing and electronic circuit to control its lighting. The seate shall be made of SS 304 trubular sections for seat and back rest seath unit size of 450mm x 600mm with minimum backreat support of 450mm. Bus shelter shall have the Side Display board to have 1100x400 Electronic display. The electronic display bacrd to be of LED Scrolling bype with Oval, 4.3 x 5.1mm of ywaste. Each bin shall be with minimum capacity of 70Ltrs. Interactive Information Panel-display equipment with information area of 1400 x 1400 and touch screen LED display panel of area not less to 600-900mm with integrated 8mm toughened glass. Advertisement Area 2 nos of size 4500mm x 1600mm x 2000mm x		Basic Rate		289	
Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concording and laying of hot applied thermoplastic compound 2.5mm thick including reflectoris glass beads at 250 gms and 2 ltr of primer per sym area, thickness of 2.5mm thick including reflectoris glass beads at 250 gms and 2 ltr of primer per sym area, thickness of 2.5mm this is exclusive of surface appliass beads as per IRC:35.The finished surface to be level, uniform and free from streak and holes complete as per specifications. MRCPH specification No.803 (KPWD 18-19,SI No: 24.15) Basic Rate Add 10% For area weightage (Mangalore City) Providing and Fixing of Bus shelter(on prepared foundation) made of SS 304 frame work with brush stifnish, Galvanised Aluminium powder coated roofing and electronic circuit to control its lighting. The seal shall be made of SS 304 tubular sections for seat and back rest.each unit size of 4500mm x 600mm with minimum backrest support of 450mm. Bus shelter shall have the Side Display board to have 1100x400° Electronic display. The electronic display board to be of LED Scrolling type with Oval, 4.3 x 5.1mm of 1100x400° Electronic display. The electronic display board to be of LED Scrolling type with Oval, 4.3 x 5.1mm of yreaste. Each bin shall be with minimum capacity of 70Ltrs. Interactive Information Panel-disp equipment with information area of 1400 x 1400 and touch screen LED display panel of area not less to 600-900mm with integrated 8mm toughened glass. Advertisement Area 2 nos of size 4500mm x 1650r and 2100mm x 2000mm shall be integrated within the design of the Bus Shelter. This shall be backlit to with SS box framing sides and back complete. Provision for installing outdoor Wife Router. The Foundat slab shall be made in min M25 concrete. The cast iron nuts, bolts shall be rust proof hot deep galvani. powder coated etc. The materials used shall be Nonflammable (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Refer Rate Approved as per EOI by MD MSCL Mangalore, Refer R					
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61	KSRB 6-2.3: Providing and constructing burnt brick masonry with standard size of class designation 5.0Newton per sqmm (tabl basement and superstructu/re including cost of materials, labour per specifications. Specification No. KBS 6.2. (KPWD 18-19,SI.No.6.7)	e moulde	ed) with cemen	t mortar 1:6 for
	Basic rate		7797	
	Add 10% For area wightage		779.7	
		Rate	8576.70	Cum
62	KSRB15-3.8: Providing 18mm thick cement plaster in single coat including rounding off corners wherever required smooth rendering including cost of materials, labour, curing complete as per specification.	ng, : Pro	viding and remo	ving scaffolding,
	Basic rate		262	
	Add 10% For area wightage		26.2	
	- tale 10,010 on an ear iniginal go	Rate	288.2	
		110.00		
61	Providing and fixing 450mm wide X 600mmX 20mm thk.RIVERWA surface of seating as directed by architect (Non SOR Item)	ASHED B		
	Basic Rate	Data	3527	
	Rate Approved as per EOI by MD MSCL Mangalore,Refer	Rate	3527.00	oqm
64	Providing and fixing of S.S. Bollards(SS304) on footpath as specific (NON SOR Item)	ed and d	irected by Engin	l eer -in-charge
	Basic Rate		4500	
	Rate Approved as per EOI by MD MSCL Mangalore, Refer			
	Sr.No.13 Providing and fixing of railing as detail design in MS HOLLOW SEC	Rate CTION ar	4500.00 and bars (shop dr	
65		CTION ar	nd bars (shop dr	rawing to be _andscape
65	Providing and fixing of railing as detail design in MS HOLLOW SEC approved),with vertical support of 0.9m @2.2mc/c , all complete tarchitect.(Non SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.26	CTION are to the sat	nd bars (shop dr isfaction of the L 100000.00	awing to be _andscape
65	Providing and fixing of railing as detail design in MS HOLLOW SEC approved),with vertical support of 0.9m @2.2mc/c , all complete tarchitect.(Non SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore,Refer	CTION are to the sat	nd bars (shop dr isfaction of the L 100000.00	awing to be _andscape
	Providing and fixing of railing as detail design in MS HOLLOW SEC approved),with vertical support of 0.9m @2.2mc/c , all complete tarchitect.(Non SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.26 Providing and Fixing SS 304 Outdoor Dustbin(Pivoted Type and Mall complete to the satisfaction of the Engineer in charge.	CTION are to the sat	nd bars (shop dr isfaction of the L 100000.00	awing to be andscape MT 5 liters capacity
	Providing and fixing of railing as detail design in MS HOLLOW SEC approved),with vertical support of 0.9m @2.2mc/c , all complete to architect.(Non SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.26 Providing and Fixing SS 304 Outdoor Dustbin(Pivoted Type and Mall complete to the satisfaction of the Engineer in charge. (NON SOR Item)	CTION are to the sat	100000.00 100000.00 100000.00	awing to be andscape MT 5 liters capacity
	Providing and fixing of railing as detail design in MS HOLLOW SEC approved),with vertical support of 0.9m @2.2mc/c , all complete tarchitect.(Non SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.26 Providing and Fixing SS 304 Outdoor Dustbin(Pivoted Type and Mall complete to the satisfaction of the Engineer in charge. (NON SOR Item) Basic Rate	CTION are to the sat	100000.00 100000.00 100000.00	awing to be andscape MT 5 liters capacity
	Providing and fixing of railing as detail design in MS HOLLOW SEC approved), with vertical support of 0.9m @2.2mc/c , all complete to architect. (Non SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore, Refer Sr.No.26 Providing and Fixing SS 304 Outdoor Dustbin (Pivoted Type and Mall complete to the satisfaction of the Engineer in charge. (NON SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore, Refer Sr.No.14 KSRRB M300-14. Half brick circular tree guard, in 2nd class theight 1.2 metres, above ground and 0.20 metre below ground, b courses in cement mortar 1:6 (1 cement 6 sand) and the interminasonry, as per design complete, complete as per specification bricks, laid dry lengthwise (KPWD 18-19,19.93)	Rate Orrick, interested of the second secon	100000.00 100000.00 100000.00 15500 7500.00 27500.00 27500.00 27500.00 27500.00 27500.00 27500.00 27500.00 27500.00 27500.00 27500.00 27500.00 27500.00	MT S liters capacity Nos. .25 metres, and ry, and top three dry honey comb with 2nd class
66	Providing and fixing of railing as detail design in MS HOLLOW SEC approved), with vertical support of 0.9m @2.2mc/c , all complete to architect. (Non SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore, Refer Sr.No.26 Providing and Fixing SS 304 Outdoor Dustbin (Pivoted Type and Mall complete to the satisfaction of the Engineer in charge. (NON SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore, Refer Sr.No.14 KSRRB M300-14. Half brick circular tree guard, in 2nd class theight 1.2 metres, above ground and 0.20 metre below ground, b courses in cement mortar 1:6 (1 cement 6 sand) and the intermination masonry, as per design complete, complete as per specification bricks, laid dry lengthwise (KPWD 18-19,19.93) Basic Rate	Rate Orrick, interested of the second secon	100000.00 100000.00 100000.00 100000.00 15500 7500.00 rnal diametre 1 0 courses laid dourses being in RB M300-Edging	MT S liters capacity Nos. .25 metres, and ry, and top three dry honey comb g with 2nd class
66	Providing and fixing of railing as detail design in MS HOLLOW SEC approved), with vertical support of 0.9m @2.2mc/c , all complete to architect. (Non SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore, Refer Sr.No.26 Providing and Fixing SS 304 Outdoor Dustbin (Pivoted Type and Mall complete to the satisfaction of the Engineer in charge. (NON SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore, Refer Sr.No.14 KSRRB M300-14. Half brick circular tree guard, in 2nd class theight 1.2 metres, above ground and 0.20 metre below ground, b courses in cement mortar 1:6 (1 cement 6 sand) and the interminasonry, as per design complete, complete as per specification bricks, laid dry lengthwise (KPWD 18-19,19.93)	Rate Carrick, integet of the sate of the	100000.00 100000.00 100000.00 100000.00 15500.00 7500.00 rnal diametre 1 o courses laid dourses being in B M300-Edging	MT Soliters capacity Nos. 25 metres, and ry, and top three dry honey comb g with 2nd class
66	Providing and fixing of railing as detail design in MS HOLLOW SEC approved), with vertical support of 0.9m @2.2mc/c , all complete to architect. (Non SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore, Refer Sr.No.26 Providing and Fixing SS 304 Outdoor Dustbin (Pivoted Type and Mall complete to the satisfaction of the Engineer in charge. (NON SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore, Refer Sr.No.14 KSRRB M300-14. Half brick circular tree guard, in 2nd class theight 1.2 metres, above ground and 0.20 metre below ground, b courses in cement mortar 1:6 (1 cement 6 sand) and the intermination masonry, as per design complete, complete as per specification bricks, laid dry lengthwise (KPWD 18-19,19.93) Basic Rate	Rate Orrick, interested of the second secon	100000.00 100000.00 100000.00 100000.00 15500 7500.00 rnal diametre 1 0 courses laid dourses being in RB M300-Edging	MT Soliters capacity Nos. 25 metres, and ry, and top three dry honey comb g with 2nd class
66	Providing and fixing of railing as detail design in MS HOLLOW SEC approved), with vertical support of 0.9m @2.2mc/c , all complete to architect. (Non SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore, Refer Sr.No.26 Providing and Fixing SS 304 Outdoor Dustbin (Pivoted Type and Mall complete to the satisfaction of the Engineer in charge. (NON SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore, Refer Sr.No.14 KSRRB M300-14. Half brick circular tree guard, in 2nd class theight 1.2 metres, above ground and 0.20 metre below ground, b courses in cement mortar 1:6 (1 cement 6 sand) and the intermination masonry, as per design complete, complete as per specification bricks, laid dry lengthwise (KPWD 18-19,19.93) Basic Rate	Rate Orick, interested of the sate Rate Rate Orick, interested of the sate Rate Rate	100000.00 100000.00 100000.00 100000.00 15500 7500.00 7500.00 ernal diametre 1 o courses laid dourses being in 2B M300-Edging 2242 224.2 224.2 224.2	MT Soliters capacity Nos. 25 metres, and ry, and top three dry honey comb g with 2nd class Nos.
66	Providing and fixing of railing as detail design in MS HOLLOW SEC approved), with vertical support of 0.9m @2.2mc/c, all complete to architect. (Non SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore, Refer Sr.No.26 Providing and Fixing SS 304 Outdoor Dustbin (Pivoted Type and Mall complete to the satisfaction of the Engineer in charge. (NON SOR Item) Basic Rate Rate Approved as per EOI by MD MSCL Mangalore, Refer Sr.No.14 KSRRB M300-14. Half brick circular tree guard, in 2nd class theight 1.2 metres, above ground and 0.20 metre below ground, be courses in cement mortar 1:6 (1 cement 6 sand) and the interm masonry, as per design complete, complete as per specification bricks, laid dry lengthwise (KPWD 18-19,19.93) Basic Rate Add 10% For area weightage (Mangalore City)	Rate Ortick, interested of the sate of th	100000.00 100000.00 100000.00 100000.00 15500 7500.00 7500.00 ernal diametre 1 o courses laid dourses being in 2B M300-Edging 2242 224.2 224.2 224.2	MT Soliters capacity Nos. 25 metres, and ry, and top three dry honey comb g with 2nd class Nos.

Add Loading and unloading charges(Item No 17.1 KSRRB M100-			
1)		57.00	
Sub Total		82.60	
Add 10% For area weightage (Mangalore City)		8.26	
	Rate	90.86	Cum
Extra Lead for Disposing off unserviceable materials upto 10 Km l Item No 17.4 KSRRB M100-4.1-Debris	beyond initi	al Lead of 5km	
Item No 17.4 KSRRB M100-4.1-Debris			
60		1.30x10Km 26.00	
Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate	2.0x ²	1.30x10Km	
Item No 17.4 KSRRB M100-4.1-Debris Debris	2.0x ²	1.30x10Km 26.00	
Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1)	2.0x ²	1.30x10Km 26.00 57.00	
Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate	2.0x ²	1.30x10Km 26.00	

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 2.1 BOQ of Electrical lighting Works for DPR-5 Roads

	2.1 BOQ of Electrical lighting					
Sr.No.	Specification	Unit	Quantity	Rate	Amount	Remarks
1.1	Lighting Poles Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required	Nos.	18	1,681	30,252	
1.2	Erection of metallic pole of following length in cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required. Above 6.5 meter and upto 8.0 meter Existing poles (As per RA)	Nos.	18	4,057	73,026	
1.3	Lighting Pole, 7 m Fabrication, supply and erection of 7 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with oor opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 m pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 155 mm dia, top 70 mm with	Nos.	173	12,420	2,148,660	
1.4	Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 4 pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No.5.14.2)	Nos.	69	7,398	510,462	
1.5	Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5)	Nos.	10	3,540	35,400	
1.6	Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2)	Nos.	250	2,400	600,000	
1.7	Painting of Existing street light pole after scrapping the old paint and painted with suitable colour enamel including coping/footing of the poleabove 5.5 mtr to 7.5 mtr (Ref Electrical SOR SI No.16.28.2)	Nos	18	620	11,160	
2.1	Out door box and switch gear Supply, installation, testing and commissioning of outdoor junction box for mounting MCB/Contactors with all required accessories and components.	No.	29	11,783	341,705	
2.2	all required accessories and componenets Supply and fixing of miniature circuit breaker on exisiting board using necessasary fixing material and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10 KA complete wiring as required confirming to IEC 60898 5-32A TPN Electrical SOR- 6.16.5)	No	29	1,547	44,863	

Sr.No.	Specification	Unit	Quantity	Rate	Amount	Remarks
3.1	Supplying of 1.1 kV LT cable having aluminium conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)	m	15039	117	1,759,516	
3.2	Supply and drawing flexible multicore cable with electrolyte grade flexible copper with low conductor conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insulation and sheathed suitable for working voltage up to 1100 V as per IS-694:1990 and conforming to GTP of Group A. 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	m	3406	81.60	277,930	
3.3	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6)	Nos	2080	11.31	23,525	
3.4	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 2.5 sq. mm copper conductor (Ref Electrical SOR SI No.7.21.2)	Nos	1380	3.12	4,306	
4	Earthing system				-	
4.1	Chemical Earthing for grounding,conduits,IC cut outs and otherequipmentson the mter boardby using copper /SS rod with earth enhancing backfill compound which is non corrosive ,thermally,conductive,potential,to permissible,limits,superior,fault,conductive capacity,non toxic,weather resistance and capable of achieving ohmic value less than one ohm (Ref Electrical SOR Pg.No.64,SI No.7.23.6)	Kit	58	5,500.00	319,000	
4.2	Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3)	Rmt	12907	19.50	251,687	
5	Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required RA attached	Nos.	4	2,541.48	10,166	
6	Erection of 7 mtr high mast metallic pole of following length in cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 40 mm nominal size) foundation including excavation,refilling,components, accessories etc. as required. Above 6.5 meter and upto 8.0 meter Existing poles (As per RA)	Nos.	4	5,476.00	21,904	
			TOTA	AL	64,63,562	

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City

2.1.1 M.S.of Electrical Lighting Works

Sr.No.	Specification	Unit	No.	L	В	н	Quantity
1	Lighting Poles						
	Dismantling of pole/ street light standard/ strut						
1.1	embedded in cement concrete						
	foundation etc. as required						
	Milagres Cross Rd. (Road no 7a)	Nos.	1				1.00
	Nandigudda Rd. (Road no 7c)	Nos.	0				0.00
	New Balmatta Rd. (Road no 8)	Nos.	2				2.00
	Don Bosco hall cross Rd. (Road no 10)	Nos.	0				0.00
	Arya Samaj Rd. (Road no 19)	Nos.	0				0.00
	Jumma Masjid Rd. (Road no 15a)	Nos.	0				0.00
	Port Rd. (Road no 15b)	Nos.	15				15.00
	Bendre Ferry Rd. (Road no 20)	Nos.	0				0.00
					To	tal	18.00
	Erection of metallic pole of following length in cement						
	concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded						
	stone aggregate 40 mm nominal size) foundation						
1.2	including excavation and refilling etc. as required.						
	Above 6.5 meter and upto 8.0 meter						
	Existing poles						
	(As per RA)						
	Milagres Cross Rd. (Road no 7a)	Nos.	1				1.00
	Nandigudda Rd. (Road no 7c)	Nos.	0				0.00
	New Balmatta Rd. (Road no 8)	Nos.	2				2.00
	Don Bosco hall cross Rd. (Road no 10)	Nos.	0				0.00
	Arya Samaj Rd. (Road no 19)	Nos.	0				0.00
	Jumma Masjid Rd. (Road no 15a)	Nos.	0				0.00
	Port Rd. (Road no 15b)	Nos.	15				15.00
	Bendre Ferry Rd. (Road no 20)	Nos.	0				0.00
					To	tal	18.00
	Lighting Pole, 7 m						
	Fabrication, suppl and erection of 7 meters long hot dip						
	Galvanised Octagonal pole with BSE 10025 grade S 355						
	JO steel plate for shaft, IS 2062 for base plate with oor						
	opening arrangement, icluding suitable boards, bakelite						
	sheet and MCBs as per IS specifications suitable for						
	wind speed of 47 m/sec for 5 m pole in single section						
1.3	and single joint welded as per IS 9595/IS 10178 AWG						
	having dimensions bottom 155 mm dia, top 70 mm with 3						
	mm thick, suitable base plate and 4 nos. of long J						
	bolts along with template and the pole shall be hot dip						
	galvanized in single dipping with not less than 65 micron						
	as per ASTM - A123 and 153 etc., (excluding foundation)						
	as per drawing appended						
	(Ref Electrical SOR SI No. 5.14.5)						
	Milagres Cross Rd. (Road no 7a)	Nos.	5				5.00
	Nandigudda Rd. (Road no 7c)	Nos.	33				33.00
	New Balmatta Rd. (Road no 8)	Nos.	17				17.00
	Don Bosco hall cross Rd. (Road no 10)	Nos.	12				12.00
	Arya Samaj Rd. (Road no 19)	Nos.	30				30.00
	Jumma Masjid Rd. (Road no 15a)	Nos.	25				25.00
	Port Rd. (Road no 15b)	Nos.	17				17.00
	Bendre Ferry Rd. (Road no 20)	Nos.	34				34.00
					To	tal	173

Sr.No.	Specification	Unit	No.	L	В	н	Quantity
	Lighting Pole, 4 m						
	Fabrication, supply and erection of 4 meters long hot dip						
	Galvanised Octagonal pole with BSE 10025 grade S 355						
	JO steel plate for shaft, IS 2062 for base plate with door						
	opening arrangement, icluding suitable boards, bakelite						
	sheet and MCBs as per IS specifications suitable for						
	wind speed of 47 m/sec for 5 4 pole in single section and single joint welded as per IS 9595/IS 10178 AWG having						
1.4	dimensions bottom 130 mm dia, top 70 mm with 3 mm						
	thick, suitable base plate and 4 nos. of long J bolts along						
	with template and the pole shall be hot dip galvanized in						
	single dipping with not less than 65 micron as per ASTM -						
	A123 and 153 etc., (excluding foundation) as per						
	drawing appended						
	(Ref Electrical SOR SI No.5.14.2)						
	Milagres Cross Rd. (Road no 7a)	Nos.					0.00
	Nandigudda Rd. (Road no 7c)	Nos.	26				26.00
	New Balmatta Rd. (Road no 8)	Nos.	4				4.00
	Don Bosco hall cross Rd. (Road no 10)	Nos.					0.00
	Arya Samaj Rd. (Road no 19)	Nos.	38				38.00
	Jumma Masjid Rd. (Road no 15a)	Nos.					0.00
	Port Rd. (Road no 15b)	Nos.					0.00
	Bendre Ferry Rd. (Road no 20)	Nos.	11		To	tal	1.00 69.00
					- 10	lai	09.00
	Supplying and fixing of hot dip Galvinized M.S.bracket						
	Suitable for outdoor luminaries and mounted on						
1.5	Octagonal pole using necessary bolts,nuts, etc.						
	complete						
	Double Cross arm - 1500 mm	NI					0.00
	Milagres Cross Rd. (Road no 7a)	Nos.	0				0.00
	Nandigudda Rd. (Road no 7c) New Balmatta Rd. (Road no 8)	Nos.	0				0.00
	Don Bosco hall cross Rd. (Road no 10)	Nos.	0				0.00
	Arya Samaj Rd. (Road no 19)	Nos.	10				10.00
	Jumma Masjid Rd. (Road no 15a)	Nos.	0				0.00
	Port Rd. (Road no 15b)	Nos.	0				0.00
	Bendre Ferry Rd. (Road no 20)	Nos.	0				0.00
					To	tal	10.00
	Supplying and fixing of hot dip Galvinized M.S.bracket						
	Suitable for outdoor luminaries and mounted on						
	Octagonal pole using necessary bolts, nuts, etc.						
1.6	complete						
	Single Cross arm - 1500 mm						
	(Ref Electrical SOR SI No.5.18.2)						
	Milagres Cross Rd. (Road no 7a)	Nos.	6				6.00
	Nandigudda Rd. (Road no 7c)	Nos.	59				59.00
	New Balmatta Rd. (Road no 8)	Nos.	23				23.00
	Don Bosco hall cross Rd. (Road no 10)	Nos.	12				12.00
	Arya Samaj Rd. (Road no 19)	Nos.	58				58.00
	Jumma Masjid Rd. (Road no 15a)	Nos.	25			-	25.00
	Port Rd. (Road no 15b)	Nos.	32				32.00
	Bendre Ferry Rd. (Road no 20)	Nos.	35		Ta	tal	35.00 250
					10	, cal	250

Sr.No.	Specification	Unit	No.	L	В	н	Quantity
	Painting of Existing street light pole after scrapping the						
	old paint and painted with suitable colour enamel						
1.7	including coping/footing of the poleabove 5.5 mtr to 7.5						
	mtr (Ref Electrical SOR SI No.16.28.2)						
	Milagres Cross Rd. (Road no 7a)	Nos.	1				1.00
	Nandigudda Rd. (Road no 7c)	Nos.	0				0.00
	New Balmatta Rd. (Road no 8)	Nos.	2				2.00
	Don Bosco hall cross Rd. (Road no 10)	Nos.	0				0.00
	Arya Samaj Rd. (Road no 19)	Nos.	0				0.00
	Jumma Masjid Rd. (Road no 15a)	Nos.	0				0.00
	Port Rd. (Road no 15b)	Nos.	15				15.00
	Bendre Ferry Rd. (Road no 20)	Nos.	0				0.00
					To	tal	18.00
2	Lighting Panel						
	Supply, installation, testing and commissioning of			†			
2.1	outdoor junction box for mounting MCB/Contactors with						
۲.۱	all required accessories and componenets						
	Milagres Cross Rd. (Road no 7a)	Noo	- 1	-			1.00
	Nandigudda Rd. (Road no 7c)	Nos.	1	-			1.00
	New Balmatta Rd. (Road no 8)	Nos.	3				2.00
		Nos.	6				3.00
	Don Bosco hall cross Rd. (Road no 10)	Nos.	2				6.00 2.00
	Arya Samaj Rd. (Road no 19) Jumma Masjid Rd. (Road no 15a)	Nos.	9				9.00
	Port Rd. (Road no 15b)	Nos.	2	1			2.00
	Bendre Ferry Rd. (Road no 20)	Nos.	4	1			4.00
	Defidite Ferry Na. (Noad 110 20)	1103.			Tr	otal	29
						lai	23
	Supply and fixing of miniature circuit breaker on exisiting						
	board using necessasary fixing material and 'C' type						
	curve, indicator ON/OFF, energy cross-3 with short						
2.2	circuit breaking capacity of 10 KA complete wiring as						
	required confirming to IEC 60898						
	5- 32A TPN						
	Electrical SOR- 6.16.5)						
	Milagres Cross Rd. (Road no 7a)	Nos.	1				1.00
	Nandigudda Rd. (Road no 7c)	Nos.	2				2.00
	New Balmatta Rd. (Road no 8)	Nos.	3				3.00
	Don Bosco hall cross Rd. (Road no 10)	Nos.	6				6.00
	Arya Samaj Rd. (Road no 19)	Nos.	2				2.00
	Jumma Masjid Rd. (Road no 15a)	Nos.	9				9.00
	Port Rd. (Road no 15b)	Nos.	2				2.00
	Bendre Ferry Rd. (Road no 20)	Nos.	4			<u> </u>	4.00
					To	tal	29
3	LT Cable						
	Supplying of 1.1 kV LT cable having aluminium						
	conductor PVC insulated, extruded inner sheathed,						
	conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire						
	conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer						
3.1	conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 &						
	conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of GROUP B						
	conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conductor,						
	conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)						
	conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4) Milagres Cross Rd. (Road no 7a) (Considering 25%		2	229			458
	conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)	m	2	229			458

Sr.No.	Specification	Unit	No.	L	В	н	Quantity
	New Balmatta Rd. (Road no 8) (Considering 25% more length for looping)	m	2	721			1443
	Don Bosco hall cross Rd. (Road no 10) (Considering 25% more length for looping)	m	2	469			938
	Arya Samaj Rd. (Road no 19) (Considering 30% more length for looping)	m	2	1203			2405
	Jumma Masjid Rd. (Road no 15a) (Considering 30% more length for looping)	m	2	932			1864
	Port Rd. (Road no 15b) (Considering 30% more length for looping)	m	2	1256			2512
	Bendre Ferry Rd. (Road no 20) (Considering 30% more length for looping)	m	2	1434			2868
					10	tal	15039
3.2	Supply and drawing flexible multicore cable with electrolyte grade flexible copper with low conductor conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insulation and sheathed suitable for working voltage up to 1100 V as per IS-694:1990 and conforming to GTP of Group A. 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)						
	Milagres Cross Rd. (Road no 7a)						
	7 mtr high pole	m	6	14			84.00
	Nandigudda Rd. (Road no 7c)						
	7m high pole	m	33	14			462.00
	4m high pole	m	26	14			364.00
	New Balmatta Rd. (Road no 8)						
	7m high pole	m	19	14			266.00
	4m high pole	m	4	14			56.00
	Don Bosco hall cross Rd. (Road no 10)		10	1.1			400.00
	7 mtr high pole	m	12	14			168.00
	Arya Samaj Rd. (Road no 19) 7 mtr high pole	m	30	14			420.00
	4 mtr high pole	m m	38	8			304.00
	Jumma Masjid Rd. (Road no 15a)	m	30	0			304.00
	7 mtr high pole	m	25	14			350.00
	Port Rd. (Road no 15b)	m	25	14			330.00
	7 mtr high pole	m	32	14			448.00
	Bendre Ferry Rd. (Road no 20)		32	17			440.00
	7 mtr road	m	34	14			476.00
	4 mtr high pole	m	1	8			8.00
	The state of the s				To	otal	3406
3.3	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6)		No.of Poles	No.of Lugs			
	Milagres Cross Rd. (Road no 7a)						
	7 mtr high pole	Nos.	6	8			48.00
	Nandigudda Rd. (Road no 7c)	A :					004.55
	7m high pole	Nos.	33	8		<u> </u>	264.00
	4m high pole	Nos.	26	8			208.00
	New Balmatta Rd. (Road no 8)	Na-	10				150.00
	7m high pole	Nos.	19	8			152.00
	4m high pole	Nos.	4	8			32.00
	Don Bosco hall cross Rd. (Road no 10)	Non	10				06.00
	7 mtr high pole	Nos.	12	8			96.00
	Arya Samaj Rd. (Road no 19)	Nos.	30	8			240.00
	7 mtr high pole	Nos.	38	8		ļ	240.00 304.00

Sr.No.	Specification	Unit	No.	L	В	н	Quantity
	Jumma Masjid Rd. (Road no 15a)						
	7 mtr high pole	Nos.	25	8			200.00
	Port Rd. (Road no 15b)						
	7 mtr high pole	Nos.	32	8			256.00
	Bendre Ferry Rd. (Road no 20)						
	7 mtr road	Nos.	34	8			272.00
	4 mtr high pole	Nos.	1	8			8.00
					To	tal	2080
3.4	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 2.5 sq. mm copper conductor (Ref Electrical SOR SI No.7.21.2)						
	Milagres Cross Rd. (Road no 7a)						
	7 mtr high pole	Nos.	6	6			36.00
	Nandigudda Rd. (Road no 7c)	1105.	- 0	0			30.00
		Nos.	33	6			100.00
	7m high pole	NOS.		0			198.00
	4m high pole		26				
	New Balmatta Rd. (Road no 8)	Niss	40				444.00
	7m high pole	Nos.	19	6			114.00
	4m high pole		4				
	Don Bosco hall cross Rd. (Road no 10)		40				70.00
	7 mtr high pole	Nos.	12	6			72.00
	Arya Samaj Rd. (Road no 19)						
	7 mtr high pole	Nos.	30	6			180.00
	4 mtr high pole	Nos.	38	6			228.00
	Jumma Masjid Rd. (Road no 15a)						
	7 mtr high pole	Nos.	25	6			150.00
	Port Rd. (Road no 15b)						
	7 mtr high pole	Nos.	32	6			192.00
	Bendre Ferry Rd. (Road no 20)						
	7 mtr road	Nos.	34	6			204.00
	4 mtr high pole	Nos.	1	6			6.00
					To	tal	1380
4.1	Chemical Earthing for grounding,conduits,IC cut outs and otherequipmentson the mter boardby using copper /SS rod with earth enhancing backfill compound which is non corrosive ,thermally,conductive,potential,to permissible,limits,superior,fault,conductive capacity,non toxic,weather resistance and capable of achieving ohmic value less than one ohm (Ref Electrical SOR Pg.No.64,SI No.7.23.6)						
	Milagres Cross Rd. (Road no 7a)	Nos.	1	2			2.00
	Nandigudda Rd. (Road no 7c)	Nos.	2	2			4.00
	New Balmatta Rd. (Road no 8)	Nos.	3	2			6.00
	Don Bosco hall cross Rd. (Road no 10)	Nos.	6	2			12.00
	Arya Samaj Rd. (Road no 19)	Nos.	2	2			4.00
	Jumma Masjid Rd. (Road no 15a)	Nos.	9	2			18.00
	Port Rd. (Road no 15b)	Nos.	2	2			4.00
	Bendre Ferry Rd. (Road no 20)	Nos.	4	2			8.00
			•	-	To	tal	58
						1	

Sr.No.	Specification	Unit	No.	L	В	н	Quantity
4.2	Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3)						
	Milagres Cross Rd. (Road no 7a)	m	2	201			402.60
	Nandigudda Rd. (Road no 7c)	m	2	1123			2246.20
	New Balmatta Rd. (Road no 8)	m	2	635			1269.40
	Don Bosco hall cross Rd. (Road no 10)	m	2	413			825.00
	Arya Samaj Rd. (Road no 19)	m	2	1018			2035.00
	Jumma Masjid Rd. (Road no 15a)	m	2	789			1577.40
	Port Rd. (Road no 15b)	m	2	1063			2125.20
	Bendre Ferry Rd. (Road no 20)	m	2	1213			2426.60
					То	tal	12907
5	Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required RA attached	No	4				4.00
6	Erection of 7 mtr high mast metallic pole of following length in cement concrete 1 :3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation,refilling,components, accessories etc. as required. Above 6.5 meter and upto 8.0 meter Existing poles (As per RA)	No	4				4.00

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City 2.1.2 Rate Analysis of Electrical Lighting works

1	Lighting Poles							
1.1	(Delhi analysis of rates E & M 2016, item 12.42, pg 395))							
	Rate 1,680.65 Nos.							
1.2	Erection of metallic pole of following length in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required. Above 6.5 meter and upto 8.0 meter Existing poles (Delhi analysis of rates E & M 2016, item 11.3.2, pg 372))							
		Rate	4,057	Nos.				
	Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters lootagonal pole with BSE 10025 grade S 355 2062 for base plate with oor opening arrange	5 JO ste	eel plate for sh					
1.3	bakelite sheet and MCBs as per IS specifica 47 m/sec for 5 m pole in single section and s 9595/IS 10178 AWG having dimensions bott 3 mm thick, suitable base plate and 4 nos. of template and the pole shall be hot dip galvar less than 65 micron as per ASTM - A123 and foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5)	tions susingle jout toom 15% for londing in the second in	uitable for wind bint welded as 5 mm dia, top ig J bolts alon i single dippin	ole boards, d speed of per IS 70 mm with g with g with not				
1.3	bakelite sheet and MCBs as per IS specifica 47 m/sec for 5 m pole in single section and s 9595/IS 10178 AWG having dimensions bott 3 mm thick, suitable base plate and 4 nos. of template and the pole shall be hot dip galvar less than 65 micron as per ASTM - A123 and foundation) as per drawing appended	tions susingle jout toom 15% for londing in the second in	uitable for wind bint welded as 5 mm dia, top ig J bolts alon i single dippin	ole boards, d speed of per IS 70 mm with g with g with not				

1.4	Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 4 pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No.5.14.2)						
	Basic rate		7398				
		Rate	7,398	-			
1.5	Supplying and fixing of hot dip Galvinized M. luminaries and mounted on Octagonal pole complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5)						
	Basic rate		3540				
		Rate	3,540				
1.6	Supplying and fixing of hot dip Galvinized M. luminaries and mounted on Octagonal pole complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2)						
	Basic rate		2400				
		Rate		Nos.			
1.7	Painting of Existing street light pole after scrawith suitable colour enamel including coping mtr to 7.5 mtr (Ref Electrical SOR SI No.16.28.2)		of the polea	bove 5.5			
	Basic rate		620				
		Rate	620	Nos.			
	Out door how and suitab are an						
2	Out door box and switch gear	ng of c	utdoor iupotio:	hov for			
2.1	Supply, installation, testing and commissioni mounting MCB/Contactors with all required a	_	_				
	Price list (Considering 30% discount, 18% GST & 10% profit)	Rate	11,783	Nos.			

	Supply and fixing of miniature circuit breaker on exisiting board using							
	necessasary fixing material and 'C' type curveross-3 with short circuit breaking capacity of			• • •				
2.2	required confirming to IEC 60898	71 10 10	t complete wii	ing as				
	5- 32A TPN							
	Electrical SOR- 6.16.5)							
	Basic rate		1547					
		Rate	1,547	Nos.				
3	LT Cable Discrete Dis							
	Supplying of 1.1 kV LT cable having alumini extruded inner sheathed, galvanised, steel s							
	extruded PVC outer sheathed armoured cab	•	•					
3.1	& conforming to GTP of GROUP B	, and p						
	4 Core x16 Sq.mm PVC Aluminium Conduct	tor,						
	(Ref Electrical SOR SI No.7.5,7.5.4)							
	Basic rate		117					
		Rate		Rm				
	Supply and drawing flexible multicore cable							
	copper with low conductor conforming to Tal							
3.2	and vargin PVC insulation and sheathed suitable for working voltage up to							
ა.∠	1100 v as per 13-094. 1990 and conforming to GTF of Group A.							
٥.۷	•	to GTF	of Group A.	J 1				
J.Z	1100 V as per IS-694:1990 and conforming 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	to GTF	of Group A.	5 1				
J.Z	•	to GTF	of Group A. 81.6	,				
	3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	to GTF	81.6	,				
J.Z	3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate	Rate	81.6 81.60	Rm				
J.Z	3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Supplying tinned copper lugs and crimping a	Rate	81.6 81.60	Rm				
3.3	3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Supplying tinned copper lugs and crimping a wire of following sizes	Rate	81.6 81.60	Rm				
	3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Supplying tinned copper lugs and crimping a	Rate	81.6 81.60	Rm				
	3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Supplying tinned copper lugs and crimping a wire of following sizes 16 Sq.mm PVC Aluminium Conductor	Rate	81.6 81.60	Rm point for				
	3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Supplying tinned copper lugs and crimping a wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6)	Rate	81.60 81.60 ng to terminal	Rm point for				
	3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Supplying tinned copper lugs and crimping a wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6)	Rate and wiri	81.6 81.60 ng to terminal	Rm point for				
	3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Supplying tinned copper lugs and crimping a wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate Supplying tinned copper lugs and crimping a	Rate and wiri	81.60 81.60 ng to terminal 11.31 11.31	Rm point for				
3.3	3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Supplying tinned copper lugs and crimping a wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate Supplying tinned copper lugs and crimping a wire of following sizes	Rate and wiri	81.60 81.60 ng to terminal 11.31 11.31	Rm point for				
	3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Supplying tinned copper lugs and crimping a wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate Supplying tinned copper lugs and crimping a wire of following sizes 2.5 sq. mm copper conductor	Rate and wiri	81.60 81.60 ng to terminal 11.31 11.31	Rm point for				
3.3	3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Supplying tinned copper lugs and crimping a wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate Supplying tinned copper lugs and crimping a wire of following sizes 2.5 sq. mm copper conductor (Ref Electrical SOR SI No.7.21.2)	Rate and wiri	81.60 81.60 ng to terminal 11.31 11.31	Rm point for Nos. point for				
3.3	3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Supplying tinned copper lugs and crimping a wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate Supplying tinned copper lugs and crimping a wire of following sizes 2.5 sq. mm copper conductor	Rate and wiri	81.60 81.60 ng to terminal 11.31 11.31 3.12	Rm point for Nos. point for				

4.1	Chemical Earthing for grounding, conduits, IC other equipments on the mter boardby using a enhancing backfill compound which is non a thermally, conductive, potential, to permissible capacity, non toxic, weather resistance and calless than one ohm (Ref Electrical SOR Pg.No.64, SI No.7.23.6)	copper corrosiv e,limits,	/SS rod with e re superior,fault,	conductive		
	Basic rate		5500			
		Rate	5500.00			
4.2	Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3)					
	Basic rate		19.5			
		Rate	19.50	Rmt		
5	Dismantling of 7 mtr high mast pole/ strut emfoundation etc. as required RA attached	nbedde	d in cement co	oncrete		
		Rate	2,541	Nos.		
6	Erection of 7 mtr high mast metallic pole of for concrete 1:3:6 (1 cement: 3 coarse sand: 6 mm nominal size) foundation including excavaccessories etc. as required. Above 6.5 meter and upto 8.0 meter Existing poles (As per RA)	grade	d stone aggre	gate 40		
		Rate	5,476	Nos.		

Executive Engineer MSCL Mangaluru

GM Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 2.1.3 Rate Analysis of Electrical Lighting works

Sr. No.	Description	Unit	qty	Rate	Amount	Remark
1.1	Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required (Delhi analysis of rates E & M 2016, item 12.42, pg 395))					
	Line man	day	0.33	486.20	160.446	LVIII, SI. NO 38
	Khasasi	day	2.66	466.20	1240.092	PWD SOR 2018-19, LXIV, SI. No 148
	Total				1400.538	
	Contracto's profit @10%				140.0538	
	Contractor's over head @ 10%				140.0538	
					1680.6456	
1.2	Erection of metallic pole of following length in cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required. Above 6.5 meter and upto 8.0 meter Existing poles (Delhi analysis of rates E & M 2016, item 11.3.2, pg 372))					
	LABOUR					
	Mason, Grade 2	day	0.33	456.20	150.546	PWD SOR 2018-19, LVI, SI. No 13
	Lineman	day	0.33	486.20	160.446	LVIII, SI. NO 38
	Khallasi	day	3.33	466.20	1552.446	PWD SOR 2018-19, LXIV, SI. No 148
	TOTAL				1863.438	
	Contracto's profit @10%				186.3438	
	Contractor's over head @ 10%				186.3438	
	TOTAL				2236.1256	
	Excavation including refilling as required	cum	0.87	328.90	286.143	PWD SOR 2018-19, pg-6, SI. No 2.3
	Cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.29	6279.90	1821.171	PWD SOR 2018-19, pg- 13, Sl. No 4.1
	TOTAL				4057.2966	
	say				4057	
5	Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required					
	Line man	day	1	486.20	486.20	LVIII, SI. NO 38
	Khasasi	day	3.5	466.20	1631.70	PWD SOR 2018-19, LXIV, SI. No 148
	Total				2117.9	
	Contracto's profit @10%				211.79	
	Contractor's over head @ 10%				211.79	
					2541.48	

Sr. No.	Description	Unit	qty	Rate	Amount	Remark
6	Erection of metallic pole of following length in cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required. Above 6.5 meter and upto 8.0 meter Existing high mast poles (Delhi analysis of rates E & M 2016, item 11.3.2, pg 372))					
	LABOUR	1				
	Mason, Grade 2	day	0.5	456.20	228.1	PWD SOR 2018-19, LVI, SI. No 13
	Lineman	day	1	486.20	486.2	PWD SOR 2018-19, LVIII, SI. No 38
	Khallasi	day	5	466.20	2331	PWD SOR 2018-19, LXIV, SI. No 148
	TOTAL				3045.3	
	Contracto's profit @10%				304.53	
	Contractor's over head @ 10%				304.53	
	TOTAL				3654.36	
	Excavation including refilling as required	cum	0.87	328.90	286.143	PWD SOR 2018-19, pg-6, SI. No 2.3
	Cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.29	6279.90	1821.171	PWD SOR 2018-19, pg- 13, Sl. No 4.1
	TOTAL				5475.531	
	say				5476	

Executive Engineer MSCL Mangaluru

Name of the Work :- Manglore Smart City 3.1 BOQ OF SOFTSCAPE for DPR 5

Sr.No.	Specifications	Unit	Quantity	Rate	Amount	Remarks
1.1	SOIL MIXES and Ground Preparation					
1.1.1	Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item)		980.88	140.00	137,323	
1.1.2	KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)	Cum	483.12	224.40	108,412	
1.1.3	KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/and good earth in required thickness (cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77)	Cum	1464.00	113.30	165,871	
1.1.4	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)	Cum	1464.00	23.91	35,004	
1.1.5	Soil preparation of Lawn					
	KSRRB M300-3.Making lawns including ploughing and breaking of clod,removal of rubbish,dressing and supplying doobs grass roots and planting at 15 cm apart,including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications. MORTH Specification No.307 (KSRRB 19.80)	Sqm	2440.00	17.60	42,944	

Sr.No.	Specifications	Unit	Quantity	Rate	Amount	Remarks
1.2	TURF					
1.2.1	ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	2440.00	156.80	382,592	
1.2	IRRIGATION					
1.2.1	supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees, sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item)	Sqm	2440.00	560.00	1,366,400	
			Total		22,38,546	

SOR+ RA Items Cost GST @ 12 % of SOR and RA Items

317,227 38067

Executive Engineer MSCL Mangaluru

Name of the Work :- Manglore Smart City 3.1.1 Measurement Sheet of softscape for DPR 5

Sr.No.	Item	Unit	No.	L	В	Н	Qty.
1.1	SOIL MIXES and Ground Preparation						
1.1.1	Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item)						
	Island at 8 and 10 Road	Cum	0.67	24.00	Area	0.60	9.65
	Island at 15b Road	Cum	0.67	42.00	Area	0.60	16.88
	Median at Arya Samaj Road-Median	Cum	0.67	290.00	0.60	0.60	69.95
	Road 7C,10,8,19,15A,18	Cum	0.67	2200.00	Area	0.60	884.4
	Consider 2/3rd Qty of Item No.1.1.7	Cum				Total	980.88
1.1.2	KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)						
	Island at 8 and 10 Road	Cum	0.33	24	Area	0.6	4.75
	Island at 15b Road	Cum	0.33	42	Area	0.6	8.32
	Median at Arya Samaj Road-Median	Cum	0.33	290	0.6	0.6	34.45
	Road 7C,10,8,19,15A,18	Cum	0.33	2200	Area	0.6	435.60
	Consider 1/3rd Qty of Item No.1.1.7	Cum				Total	483.12
	·						
1.1.3	KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77)						
	Island at 8 and 10 Road	Cum	1	24	Area	0.6	14.40
	Island at 15b Road	Cum	1	42	Area	0.6	25.20
	Median at Arya Samaj Road-Median	Cum	1	290	0.6	0.6	104.40
	Road 7C,10,8,19,15A,18	Cum	1	2200	Area	0.6	1320.00
						Total	1464.00
1.1.4	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)						
	Consider Same Qty. of 1.1.7	Cum					1464.00
_							

Sr.No.	Item	Unit	No.	L	В	Н	Qty.
1.1.5	Soil preparation of Lawn						
	KSRRB M300-3.Making lawns including						
	ploughing and breaking of clod,removal of						
	rubbish,dressing and supplying doobs grass						
	roots and planting at 15 cm apart,including						
	supplying and spreading of farm yard manure at						
	rate of 0.18cum per 100 sqm complete as per						
	specifications.						
	MORTH Specification No.307 (KSRRB 19.80)						
	,						
	In rows 5 cm apart in both directions Island at 8 and 10 Road	Sqm	1	24.00	Aroo		24.00
	Island at 15b Road	Sqm	1	24.00 42.00	Area Area		42.00
	Median at Arya Samaj Road-Median	Sqm	1	290.00	0.6		174.00
	Road 7C,10,8,19,15A,18	Sqm	1	2200.00	Area		2200.00
	1000 10,10,0,10,10/1,10	Oqiii		2200.00	Alea	Total	2440.00
						Total	2440.00
	ZOYSIA JAPONICA (MAT)						
1.1.6	(Non SOR Item)						
	Island at 8 and 10 Road	Sqm	1	24	Area		24.00
	Island at 15b Road	Sqm	1	42	Area		42.00
	Median at Arya Samaj Road-Median	Sqm	1	290	0.6		174.00
	Road 7C,10,8,19,15A,18	Sqm	1	2200	Area		2200.00
						Total	2440.00
4.0	IDDIO 4 TION						
1.2	IRRIGATION						
	supply and fixing of irrigation lines such that all						
	the green areas and plants are adequately watered; by means of drip irrigation for trees,						
	sub surface for shrubs and lawn areas / ground						
	covers and pop up sprinklers for lawn areas.						
	(Equipment make - Rainbird or equivalent)						
1.2.1	All material used should be comply to BSI code.						
	All the necessary value and pump required for						
	complete commissioning to be installed. (
	Consider Same Qty. of 1.1.6)						
	(Non SOR Item)						
	Island at 8 and 10 Road	Sqm	1	24	Area		24.00
	Island at 15b Road	Sqm	1	42	Area		42.00
	Median at Arya Samaj Road-Median	Sqm	1	290	0.6		174.00
	Road 7C,10,8,19,15A,18	Sqm	1	2200	Area	<u> </u>	2200.00
						Total	2440.00

Executive Engineer MSCL Mangaluru

Name of the Work :- Manglore Smart City 3.1.2 Rate Analysis of SOFTSCAPE for DPR 5

RATE ANALYSIS - SOFTSCAPE

1.1.1	(Non SOR Item)							
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.27	Rate	140.00	Cum				
1.1.2	KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)							
	Basic rate		204					
	Add 10% For area weightage		20.4					
		Rate	224.40	Cum				
1.1.3	KSRRB M300-Horticulture KSRRB M300-syard manure or/ and good earth KSRRB M3 farm yard manure or/ and good earth in r sludge, farm yard manure or/and good earth complete as per specifications. MORTH Spe (KPWD SR 16-17, Page No.150, SI No.19.77)	300-1. Stephine of the contract of the contract of the contraction of	Spreading thickness paid for s	g of sludge ss (cost of separately)				
	Basic rate		103					
	Add 10% For area wightage		10.3					
		Rate	113.30	I				
1.1.4	Mixing earth and sludge or manure in the re or directed by the Officer-in-charge (Non SOR item)	equired	proportio	n specified				
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28	Rate	23.91	Cum				

1.1.5	Soil preparation of Lawn KSRRB M300-3.Making lawns including ploughing and breaking of clod,removal of rubbish,dressing and supplying doobs grass roots and planting at 15 cm apart,including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications. MORTH Specification No.307 (KSRRB 19.80)						
	Basic rate		16				
	Add 10% For area wightage		1.6				
	3 113	Rate	17.60				
		110.00		94			
1.2	TURF						
1.2	IUKF						
1.2.1	ZOYSIA JAPONICA (MAT) (Non SOR Item)						
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.32	Rate	156.80	Sqm			
1.2	IRRIGATION						
supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees, sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item)							

Executive Engineer MSCL Mangaluru

Manglore Smart City 4.1.1 Rate Analysis for Kerb Stone

Sr.N	Description	Unit	Qty	Rate/Unit	Amount	Remarks
О.	•					
1	Reusing existing kerb stone obtained from					
	dismantaling of existing footpath or by other					
	dismantaling work and laying at or near ground					
	level in position to the required line, level and					
	curvature, jointed with					
	cement mortar 1:3 (1 cement: 3 coarse sand),					
	including making joints with or without					
	grooves (thickness of joints except at sharp curve					
	shall not to more than 5mm),					
	including transportation to site from stack yard,					
	making drainage opening wherever required					
	complete etc. as per direction of Engineer-in- charge (length of finished kerb edging shall be					
	measured for payment).					
	(Precast C.C. kerb stone shall be approved by					
	Engineer-in-charge).					
	Material for Jointing of existing kerb stone					
	Mortar 1:3 for fixing joints = 223x1x					
	[((0.114+0.165)/2)*0.4*0.005] +	_				KSRB 1.3
	$(0.25 \times 0.165 \times 0.005) = 0.062 \text{cum}.$	Cum	0.032	5666.00	181.31	Pg No 2
	Cement mortar 1:3 (1 cement : 3 coarse sand)					3
	Mason (brick layer) 1st class	day	2.500	466.20	1165.50	
	Mason (brick layer) 2nd class	day	2.500	456.20	1140.50	KSRB
	Beldar	day	2.500	446.20	1115.50	Pg No LIV
	Coolie	day	1.650	446.20	736.23	
	Total				4339.04	
	Add 1 % Water charges				43.39	
	Add 1% Transportation from stack yard to site				43.39	
					4425.82	
	Add 10 % Contractor's profit				442.58	
	Add 10% Contractor Overhead				442.58	
	Cost of 6.22cum				5310.99	
	cost for 1 cum.				853.86	Α
	Cost of Kerb per RM				52.94	Per RM
	Cost per Kerb of width 0.45m =A X 0.0279cum				24	Per No
	(Vol of one Kerb)				27	1 01 140

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

One Precast Kerb Stone Rate	Qty.	Unit	Rate	Amount	SOR Item No.
Volume of one Kerb-M20	0.028	Cum	6272.000	175.62	4.13
Shuttering of Kerb Stone	0.60	Sqm	263.00	156.86	4.28
			Total Cost=	332.48	
Cost of Kerb Stone per Cum =	11874.13	Rs.			

Concrete Vol For One Kerb Stone	Qty.	Unit
C/s Area of Kerb=	0.0621	Sqm
Width of Kerb Stone =	0.45	М
Volume of kerb stone =	0.028	Cum

Shuttering Qty.	Nos.	Area of one side face	Total Area in Sqm
Front and Back Side of Kerb Stone=	2	0.180	0.36
Bottom Area	1	0.074	0.07
Top Area	1	0.100	0.10
One Side Area	1	0.062	0.06

Total 0.60 Sqm

Manglore Smart City 4.0 Rate Analysis for Kerb Stone

Sr.N o.	Description	Unit	Qty	Rate/Unit	Amount	Remarks
1	Providing and laying at or near ground level factory					
	made kerb stone of M-20 grade					
	cement concrete in position to the required line,					
	level and curvature, jointed with					
	cement mortar 1:3 (1 cement: 3 coarse sand),					
	including making joints with or without					
	grooves (thickness of joints except at sharp curve					
	shall not to more than 5mm),					
	including making drainage opening wherever					
	required complete etc. as per direction of Engineer-					
	in-charge (length of finished kerb edging shall be measured for payment).					
	(Precast C.C. kerb stone shall be approved by					
	Engineer-in-charge).					
	Kerb Dimension=					
	Top Width=0.114m,					
	Bottom Width=0.165 m.					
	Height =0.4 m					
	Details of cost 100 metre i.e.					
	No. of kerb stones = 100/0.45=223 Nos.					
	width of kerb stone =0.45m					
	Precast C.C. Kerb stone M - 20 =					
	223x(((0.114+0.165)/2)*0.15+0.25*0.165))*0.45=6.					
	23cum					
	Material					_
	Precast C.C. Kerb stone M - 20	Cum	6.230	11874.13	73975.86	Rate attached
	Shuttering Work					
	Mortar 1:3 for fixing joints = 223x1x					
	[((0.114+0.165)/2)*0.4*0.005] + (0.25x0.165x0.005)	Cum	0.032	5666.00	181.31	KSRB 1.3
	= 0.062cum.	Cum	0.032	3000.00	101.51	Pg No 2
	Cement mortar 1:3 (1 cement : 3 coarse sand)					
	Mason (brick layer) 1st class	day	2.500	466.20	1165.50	
	Mason (brick layer) 2nd class	day	2.500	456.20	1140.50	KSRB
	Beldar	day	2.500	446.20	1115.50	Pg No LIV
	Coolie	day	1.650	446.20	736.23	
	Total				78314.90	
	Add 1 % Water charges				783.15	
	A 1140 07 O . 1 . 1 . 2"		-		79098.05	
	Add 10 % Contractor's profit		1		7909.81	
	Add 10% Contractor Overhead		1		7909.81	
	Cost of 6.22cum		1		94917.66	^
	cost for 1 cum.				15260.07	Α
	Cost per Kerb of width 0.45m =A X 0.0279cum (Vol of one Kerb)				426	Per No

Executive Engineer MSCL Mangaluru

Manglore Smart City 4.1 Rate Analysis for Water Table (Longitudinal Gutter)

Sr.No.	Description	Unit	Qty	Rate/Unit	Amount	Remarks
1	Providing and laying at or near ground level factory					
	made kerb stone of M-20 grade					
	cement concrete in position to the required line, level					
	and curvature, jointed with cement mortar 1:3 (1					
	cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at					
	sharp curve shall not to more than 5mm), including					
	making drainage opening wherever required					
	complete etc. as per direction of Engineer-in-charge					
	(length of finished kerb edging shall be measured for					
	payment).					
	(Precast C.C. kerb stone shall be approved by					
	Engineer-in-charge).					
	Kerb Dimension=					
	Top Width=0.075m,					
	Bottom Width=0.1 m,					
	Height =0.3 m					
	Details of cost 100 metre i.e. No. of water table stones = 100/0.45=223 Nos.					
	width =0.45m					
	Precast C.C. Kerb stone M - 20 =					
	223x(((0.075+0.1)/2)*0.3)*0.45=2.63cum					
	Material					_
	Precast C.C. Kerb stone M - 20	Cum	2.630	14622.97	38458.42	Rate attached
	Shuttering Work					
	Mortar 1:3 for fixing joints = 223x1x					KSRB 1.3
	[((0.075+0.1)/2)*0.3*0.005] = 0.029cum.	Cum	0.029	6996.00	202.88	Pg No 2
	Cement mortar 1:3 (1 cement : 3 coarse sand)					1 9 110 2
	Mason (brick layer) 1st class	day	2.000	466.20	932.40	
	Mason (brick layer) 2nd class	day	2.000	456.20	912.40	KSRB
	Beldar Coolie	day	2.000 1.650	446.20 446.20	892.40 736.23	Pg No LIV
		day	1.650	446.20		
	Total Add 1 % Water charges				42134.73 421.35	
	Auu i /0 vvatei Charges				421.35 42556.08	
	Add 10 % Contractor's profit				4255.61	
	Add 10% Contractor Overhead				4255.61	
	Cost of 2.63cum				51067.30	
	cost for 1 cum.				19417.22	А
	Cost per Kerb of width 0.45m =A X 0.0118cum (Vol of one Kerb)				229	Per No

Executive Engineer MSCL Mangaluru

Manglore Smart City

4.2 Rate Analysis for Kerb Stone 900 mm High

Sr.No.	Description	Unit	Qty	Rate/Unit	Amount	Remarks
1	Providing and laying at or near ground level factory made kerb stone of M-20 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).					
	Kerb Dimension= Top Width=0.25m, Bottom Width=0.3 m, Height =0.9 m Details of cost 100 metre i.e. No. of kerb stones = 100/0.405=247 Nos. width of kerb stone =0.4m Precast C.C. Kerb stone M - 20 = 247x(((0.25+0.3)/2)*0.6+0.3*0.3))*0.405=25.5cum					
	Material					Rate
	Precast C.C. Kerb stone M - 20	Cum	25.500	14381.53	366729.05	attached
	Mortar 1:3 for fixing joints = 246x1x [((0.250+0.30)/2)*0.60*0.005] + (0.30x0.30x0.005) = 0.313cum. Cement mortar 1:3 (1 cement : 3 coarse sand)	Cum	0.300	5666.00	1699.80	KSRB 1.3 Pg No 2
	Mason (brick layer) 1st class	day	2.500	466.20	1165.50	
	Mason (brick layer) 2nd class	day	2.500	456.20	1140.50	KSRB
	Beldar	day	2.500	446.20	1115.50	Pg No LIV
	Coolie	day	1.650	446.20	736.23	
	Total				372586.58	
	Add 1 % Water charges				3725.87	
					376312.45	
	Add 10 % Contractor's profit				37631.24	
	Add 10% Contractor Overhead				37631.24	
	Cost of 25.5 cum				451574.93	
	cost for 1 cum.			1	17708.82	Α
	Cost per Kerb of width 0.405m =A X 0.102cum			1		
	(Vol of one Kerb)				1806	Per No

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City 4.3 Rate Analysis of Dry Lean Concrete - Footpath

	l ·					
	Description	Unit	Quantity	Rate Rs	Cost Rs	Remarks/ Input ref.
	Dry Lean Cement Concrete Sub- base					
	KSRRB M600-1.Construction of dry lean cement					
	concrete mix M15 with 1:5:10 OPC cement					
	@160Kgs,with 25mm and down size graded					
	granite/trap/basalt metal coarse aggregate at 0.86cum					
	and fine aggregate @ 0.58cum Sub-base over					
	prepared sub grade with (coarse and fine aggregate					
	confirming to IS:383) aggregate cement ration not to					
	excee 15:1. Aggregate gradation after blending to be					
	as per Table 600-1, cement content to be determined					
	during trail length construction, concrete strength not to					
	be less than 10Mpa at 7 days, mixed in a batching					
	plant,transported to site,Manually laid and					
	compacting with palte compactor, finishing and					
	curing complete as per specifications.Morth					
	specification No.601					
	(RA attached)					
	Unit = cum					
	Taking output = 450 cum (990 tonne)					
	a) Labour					SI.No.12,Pa
	Mate	day	1.120	446.200	499.74	ge No.LIV,
	Manuface at the d	al acco	0.000	440,000	2077.00	SI.No.6,Pag
	Mazdoor skilled	day	6.000	446.200	2677.20	e No.LIV,
	Mazdoor	day	22.000	446.200	9816.40	SI.No.6,Pag
	b) Machinery	,				e No.LIV,
	b) Machinery					SI.No.26,Pa
	Front end loader 1 cum bucket capacity	hour	6.000	593.00	3558.00	ge
	From end loader 1 cum bucket capacity		0.000	000.00	0000.00	No.XXXXVII
	Cement concrete batch mix plant @ 75 cum per hour	hour	6.000	1525.00	9150.00	SI.No.104,P
		noui	0.000	1020.00	0100.00	age No.L
	E					SI.No.92,Pa
	Electric generator 100 KVA	hour	6.000	534.00	3204.00	ge
						No.XXXXIX
	!					SI.No.65,Pa
	Plate Compactor	Day	1.000	254.00	254.00	ge
		,				No.XXXXVIII
	Water tanker6 KL capacity	hour	8.000	550.00	4400.00	
	Tipper	tonne.k	990 x L	4.00	39600.00	
<u> </u>		m	000 X E			
	Add 10 per cent of cost of carriage to cover cost of				3960.00	
	loading and unloading					
	c) Material					
	Crushed stone coarse aggregate of 25 mm and 12.5					
	mm nominal sizes graded as per table 600-1 @ 0.90	cum	405.000	1460.00	591300.00	800.00
	cum/cum of concrete conforming to clause 602.2.4.	Cuiti	+05.000	1400.00	331300.00	000.00
	Coarse Sand as per IS: 383 @ 0.45 cum/cum of	CLIM	203.000	1700.00	345100.00	800.00
	concrete	cum	203.000		J+5100.00	500.00
	Cement @ 160 kg/cum of concrete	tonne	72.000	4906.00	353232.00	84.00
	Cost of water	KL	48.000	40.00	1920.00	818.00
	d) Overhead charges @ 10 % on (a+b+c)				136867.13	
	e) Contractor's profit @ 10 % on (a+b+c+d)				150553.85	
	Cost for 450 cum = a+b+c+d+e				1656092.33	
					3680.21	
<u> </u>	Rate per cum = (a+b+c+d+e)/450			say	<u>3680.21</u>	
				Say	5500.00	
Note	Quantity provided for aggregate is for actionation	I				
Note	Quantity provided for aggregate is for estimating purpose. Exact quantity shall be as per mix design.					

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City

4.4 Rate Analysis for Granular Sub Base under Footpath

Sr No	Ref. to MoRTH Spec.		Description	Unit	Quantity	Rate Rs	Cost Rs	Remarks/ Input ref.
4.1	401		Granular Sub-Base with Close Graded Material (Table:- 400-1)					
		Α	Plant Mix Method					
			Construction of granular sub-base by providing					
			close graded Material, mixing in a mechanical					
			mix plant at OMC, carriage of mixed Material to					
			work site, spreading in uniform layers with motor					
			grader on prepared surface and compacting with vibratory power roller to achieve the desired					
			density, complete as per clause 401					
			Unit = cum					
			Taking output = 225 cum (450 tonne)					
			a) Labour					
			Mate	day	0.4	395	158	SI.No.12,Page No.LIV,
			Mazdoor skilled	day	2	446.2	892.4	SI.No.6,Page No.LIV,
			Mazdoor	day	8	446.2	3569.6	SI.No.6,Page No.LIV,
			b) Machinery					
			Wet mix plant @ 60 tonne capacity per hour	hour	3	960		1028
			Electric generator 100KVA	hour	6	534	3204	1321
			Water tanker 6 KL capacity 5 km lead with one trip per hour	hour	4.5	51.5	231.75	1032
			Front end loader 1 cum bucket capacity	hour	6	593	3558	1012
			Tipper 10 tonne	tonne.km	450 x L	4	28800	
			Add 10 per cent of cost of carriage to cover loading and unloading				2880	
			Motor Grader 110 HP	hour	6	2125	12750	
			Plate Compactor	Day	1	254	254	SI.No.65,Page No.XXXXVIII
			c) Material					
			Close graded Granular sub-base Material as per table 400-1					
			For Grading-II Material					
			53 mm to 9.5 mm @ 50 per cent	cum	144	1460	210240	M-013
			9.5 mm to 2.36 mm @ 20 per cent	cum	57	1340	76380	M-017
			2.36 mm below @ 30 per cent	cum	86.4	1150	99360	M-020
		(1)	Cost of water	KL	27	40	1080	Page No.V,SI.No.758
4.1A	1	(i)	Rate per cum for grading-II Material				44623.8	
			d) Overhead charges @ 10% on (a+b+c)					
			e) Contractor's profit @ 10% on (a+b+c+d)				49086.2	
			Cost for 225 cum = a+b+c+d+e				539948	
			Rate per cum = (a+b+c+d+e)/225				2399.77	
						say	<u>2400</u>	

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City 4.5 Rate Analysis of taking out paver block

Sr.No.	Description	Unit	Quantity	Rate	Amount	Reference					
1	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.										
	Details of cost for	r 10 sqm.									
а	Labour										
b	Beldar	Day	0.25	446.2	111.55	KPWD 18-19 SOR, Pg No.LVI SI No.5					
С	Collie	Day	1	446.2	446.2	KPWD18-19 SOR, Pg No.LVI,SI No.6					
d	Sundries	LS	2.7	1.73	4.67	CPWD Pg No 29,					
	Total				562.42						
е	Add 1% Water C	harges			5.62						
	Total				568.04						
f	Add 10 % Contra	ctor's prof	it		56.8						
g	Add 10 % Contra	ctor's ove	rheads		56.804						
	Cost of 10 sqm				681.644						
	Cost of 1 sqm				68.16						

Executive Engineer MSCL Mangaluru

	5.0 Summary for Maintenance							
Sr.No.	description	Total Amount Rs.						
1	2nd year Maintenance	3,908,339.00						
2	3rd year Maintenance	4,085,686.00						
3	4th year Maintenance	4,190,218.00						
	Total Maintenance Amount	12,184,243.00						
	GST @12% for Maintenance Period on SOR Base Items	909,578.00						
	GST @12% for Maintenance Period on Market Base Items	272,081.00						
	Total	13,365,902.00						

Note: Maintenance cost is approved by KUIDFC

EXECUTIVE ENGINEER MSCL MANGALURU

GENERAL MANAGER TECHNICAL MSCL MANGALURU

Name of the Work :- Mangalore Smart City 5.1 Abstract for Maintenance of Road and Other Work for DPR 5-1st Year

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
	Civil Works				
1.00	Maintenance for 1st Year: Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA attached)	Sqm	14.00	77.98	1092
2.00	Maintenance for 1st Year: KSRRB M200.Dismantling of cement concrete pavement by mechanical means using pueumatic tools,breaking to pieces not exceeding 0.02 cum in volume and stock pilling at designated locations and disposal of dismantled material stacking serviceble and unserviceable materials separately complete as per specifications.MORTH specification No.202.(Including transporting charges,loading and unloading for lead 5km-Extra) (Page No 138,SI No : 18.47)	Cum	18.38	1028.46	18,903
3.00	Maintenance for 1st Year: KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M200-26. Dismantling Kerb stone by Manual means and disposal of dismantled materials with all lifts and complete as per specifications.MORTH Specification No.202. (Page No.139,S.I.No.18.49)	Rmt	20.00	13.73	275
4.00	Maintenance for 1st Year: KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202 (KPWD SOR 16-17,18.20,Page No.137)	Cum	20.00	446.16	8,923
5.00	Maintenance for 1st Year: KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonary, cement concrete, woodwork, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar (Page No 137,SI No : 18.23)	Cum	3.45	401.54	1385
6.00	Maintenance for 1st Year: KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 1.00Km and complete as per specifications. MORTH specification No.301(Including transporting charges, loading and unloading for lead 5km) (Page No 143,SI No : 19.14)	Cum	250.00	57.60	14,400
7.00	Maintenance for 1st Year: KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(KPWD 16-17,SI No.2.11,Pg. No.6)	Cum	75.00	137.28	10,296
8.00	Maintenance for 1st Year: KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3.(KPWD 16-17,SI No.19.64,Pg. No.149)	Sqm	500.00	6.86	3,430

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
9.00	Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2015-16)	Cum	7.50	6749.60	50,622
10.00	Maintenance for 1st Year: KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material	Cum	18.75	2477.90	,46,461
11.00	Maintenance for 1st Year: KSRB 4.2.1: Providing and laying in position reiforcement cement concrete of design Mix M25 with OPC cement @340Kgs,with 20mm and down size graded granite metal coarse aggregate @ 0.47 cum with super plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 at machine mixed,concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls,return walls,walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of machinery,curing,complete but excluding cost of reinforcement as per specifications. (Page No 13,SI No : 4.10)		48.00	7090.51	3,40,344
12.00	Maintenance for 1st Year: KSRB 4.6.1 Providing and removing centering, shuttering, strutting, propping etc.,and removal of formwork for foundations, footings, bases of columns for mass concrete including cost of all materials,labour complete as per specifications. Specification No. KSB 4.6.2 (Page No 15,SI No: 4.28)	Sqm	360.00	300.87	108,313
13.00	Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work including straighting, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to thr	MT	3.84	80974.61	3,10,943
14.00	Maintenance for 1st Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of sub-grade with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory rollercompaction by vibratory roller to 97% of proctors density) MORTH Specification No. 305	Cum	36.75	643.19	23,637

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
15.00	Maintenance for 1st Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications.Morth specification No.601 (Page No 176,SI No : 22.1)	Cum	7.35	4630.91	34,037
16.00	Maintenance for 1st Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,Manually laid and compacting with palte compactor,finishing and curing complete as per specifications.Morth specification No.601 (RA attached)	Cum	20.00	4209.92	84,198
17.00	Maintenance for 1st Year: KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars at 4.5m intervals, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per sprcifications MORTH specification No.602.do with M40 (420Kg per cum Cement,C.A,0.67 cum F.A.044Cum (Page No 176,SI No : 22.2.2)	Cum	16.91	6595.16	1,11,524
18.00	Maintenance for 1st Year: Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealant manufacturer recommends and pouring the sealant all complete including material, manpower (Non SOR Item)	Rmt	35.00	119.60	4,186
19.00	Maintenance for 1st Year: KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints longitudinal joints and expansion joints in concrete pavement using epoxy mortar concrete complete as per specifications.Morth specification No.3005.1 (Page No 257,SI No : 35.8)	Rmt	50.00	378.66	18,933

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
20.00	Maintenance for 1st Year: Providing and laying at or near ground level factory made kerb stone of M-20 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-incharge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	Cum	0.10	20258.89	2,026
21.00	Maintenance for 1st Year: Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of CC 1:2:4 and Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3)	_	2.51	17710.96	44,455
22.00	Maintenance for 1st Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,made out of CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3)	Cum	0.30	17710.96	5,313
23.00	Maintenance for 1st Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-incharge.	m	100.00	27.46	2,746
24.00	Maintenance for 1st Year: KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No 182,SI No : 24.1)	Sqm	11.55	91.52	1057
25.00	Maintenance for 1st Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting.	Nos.	3.00	8395.92	25,188
26.00	Maintenance for 1st Year: P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached)	Nos.	8.00	5487.63	43,901
27.00	Maintenance for 1st Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm at level footpath. (Rate analysis attached)	Nos.	1.00	6048.15	6,048
28.00	Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes to the required alignments including specials and grade as indicated in drawings/design and hydraulically testing of the pipe line. The rate shall include all jointing materials, testing apparatus and water for testi g etc as directed by the Engineer in charge (page No.41, Item No.7, KUWSDB SOR 2016-17)	Rmt	6.00	313.58	1,881
29.00	Maintenance for 1st Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100mm dia, of self cleaning design with screwed down or hinged grating with or without vent arm including cutting and making good the walls and floors, cost of materials, labour, testing, complete as per specifications Specification No. KBS 11.1.10. (PWD SR 2015-16,P.No.86, SI.No.12.89)	Nos.	10.00	949.52	9,495

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
30.00	Maintenance for 1st Year: KSRRB M800-29.3. Cable Duct Across the road KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings complete as per specifications. Case-III: Triple row for three utility services. (PWD SR 2015-16,SI.No.24.36)	Rmt	4.00	5745.17	22,981
31.00	Maintenance for 1st Year: Providing and laying Dia 200mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5, Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7. The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years. (Market Rate)	Rmt	150.00	1619.16	2,42,874
32.00	Maintenance for 1st Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5,Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7.The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years.(Market Rate)	Rmt	100.00	1111.66	1,11,166
33.00	Maintenance for 1st Year: Providing and Fixing Spacers for Power Ducts of size 200 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20.00	1143.42	22,868
34.00	Maintenance for 1st Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20.00	2219.58	44,392
35.00	Maintenance for 1st Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lubricant inner layer for ICT fibre cables comforming to ASTMF 2160 and /or equivalent indian standard and conveying to work site including loading and unloading at both destination and rolling,lowering into trenches,laying true to line and jointing of pipe etc.Complete. (Market Rate)	Rmt	40.00	625.35	25,014
36.00	Maintenance for 1st Year: Supplying and Application charges required for stamping the freshly laid new concrete (Concrete rate is not included in this item) including finishing and colouring the top surface accurately to the required level, shape and size using approved colour shade and staping it using approved stamp pattern and antiquitting it on top with approved colour. Sealing entire area with concrete sealer.	Sqm	200.00	713.86	1,42,772
37.00	Maintenance for 1st Year: Providing and laying heavy duty cobble stones 75mm thick, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 30mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. (Page No 101,SI No: 14.7)	Sqm	30.00	1274.42	38,233

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
38.00	Maintenance for 1st Year: KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No. 507 -using 100/120 TPH capacity H.M.P. with sensor paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 16-17,S.I.No.21.17.1,Page No.163)	Cum	12.00	8967.82	107,614
39.00	Maintenance for 1st Year: KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-40 Bitumen	Cum	3.20	10022.58	32,072
40.00	Maintenance for 1st Year: KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications	Nos.	10.00	330.62	3,306
41.00	Maintenance for 1st Year: Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface:Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area,thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be level,uniform and free from streak and holes complete as per specifications.MORTH specification No.803 (Page No 192,SI No : 24.57)	Sqm	30.00	490.78	14,723
42.00	Maintenance for 1st Year: Operation and Maintenance for eToilets Stainless Steel Public Model as specified in Road and Other works BOQ Item No.45.	Nos	3.00	63648.00	1,90,944
43.00	Maintenance for 1st Year: Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	2.00	4680.00	9,360
44.00	Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SECTION and bars (shop drawing to be approved), with vertical support of 0.9m @2.2mc/c, all complete to the satisfaction of the Landscape architect.(Non SOR Item)	MT	0.30	104000.00	31,200
45.00	Maintenance for 1st Year: Excavation and removal of silt and silt mixed with sand in slussy condition from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with lead upto 50 m and all lifts. For Desilting of drains and grit chambers including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-incharge.	Cum	1015.00	186.16	1,88,952
46.00	Maintenance for 1st Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Earth	Cum	200.00	107.08	21,416

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
47.00	Maintenance for 1st Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Debris	Cum	70.00	107.54	7,528
	Electrical Works				
48.00	Maintenance for 1st Year: Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required (Delhi analysis of rates E & M 2016, item 12.42, pg 395))	Nos.	1.00	1747.88	1748
49.00	Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with oor opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 m pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 155 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5)	Nos.	1.00	12916.80	12,917
50.00	Maintenance for 1st Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 4 pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No.5.14.2)	Nos.	1.00	7693.92	7,694
51.00	Maintenance for 1st Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5)	Nos.	1.00	3681.60	3,682
52.00	Maintenance for 1st Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2)	Nos.	1.00	2496.00	2,496
53.00	Maintenance for 1st Year: Painting of Existing street light pole after scrapping the old paint and painted with suitable colour enamel including coping/footing of the pole8mtr and above street light pole (Ref Electrical SOR SI No.16.28.3)	Nos.	242.00	644.80	156,042
54.00	Maintenance for 1st Year: Supply, installation, testing and commissioning of outdoor junction box for mounting MCB/Contactors with all required accessories and componenets	Nos.	1.00	12254.24	12,254
55.00	Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board using necessasary fixing material and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10 KA complete wiring as required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5)	Nos.	1.00	1608.88	1,609
	LT Cable				

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
56.00	Maintenance for 1st Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)	m	60.00	121.68	7,301
57.00	Maintenance for 1st Year: Supply and drawing flexible multicore cable with electrolyte grade flexible copper with low conductor conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insulation and sheathed suitable for working voltage up to 1100 V as per IS-694:1990 and conforming to GTP of Group A. 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	m	10.00	84.86	849
58.00	Maintenance for 1st Year: Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6)	Nos	10.00	11.76	118
59.00	Maintenance for 1st Year: Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 2.5 sq. mm copper conductor (Ref Electrical SOR SI No.7.21.2)	Nos	8.00	3.24	26
60.00	Earthing system Maintenance for 1st Year: Chemical Earthing for grounding,conduits,IC cut outs and otherequipmentson the mter boardby using copper /SS rod with earth enhancing backfill compound which is non corrosive ,thermally,conductive,potential,to permissible,limits,superior,fault,conductive capacity,non toxic,weather resistance and capable of achieving ohmic value less than one ohm (Ref Electrical SOR Pg.No.64,SI No.7.23.6)	Kit	1.00	5720.00	5,720
61.00	Maintenance for 1st Year: Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3)	Rmt	50.00	20.28	1,014
	Landcaping Works SOIL MIXES and Ground Preparation				
62.00	Maintenance for 1st Year: Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item)	Cum	1.50	145.60	218
63.00	Maintenance for 1st Year: KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)	Cum	0.75	233.38	175
64.00	Maintenance for 1st Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77)		2.00	117.83	236
65.00	Maintenance for 1st Year: Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)	Cum	2.00	24.87	50
	Soil preparation of Lawn				

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
66.00	Maintenance for 2nd Year: Maintenance of lawns or Turfing of slopes (rough grassing) for a period of one year including watering etc complete including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-in-charge.	Sqm	382.19	117.83	45,033
	TURF				
67.00	Maintenance for 1st Year: ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	3.00	163.07	489
	IRRIGATION				
68.00	Maintenance for 1st Year: Watering with tanker to landscape area and plants for one year	Year	1.00	31085.11	31,085
69.00	Maintenance for 1st Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees, sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item)	Sqm	3.00 582.40		1,747
				Total	28,83,930

GST SOR Item Total 15,48,006 185761 Market Base Item 6,64,223 79707

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City 5.2 M.S. For Maintenance of Road and Other Work forDPR 5-1st Year

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
	Civil Works						
1.00	Maintenance for 1st Year: Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA attached)	Cam	1	7	2		14.00
2.00	Maintenance for 1st Year: KSRRB M200.Dismantling of cement concrete pavement by mechanical means using pueumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock pilling at designated locations and disposal of dismantled material stacking serviceble and unserviceable materials separately complete as per specifications.MORTH specification No.202.(Including transporting charges, loading and unloading for lead 5km-Extra) (Page No 138,SI No : 18.47)	Cum	5	3.5	3.5	0.3	18.38
3.00	Maintenance for 1st Year: KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M200-26. Dismantling Kerb stone by Manual means and disposal of dismantled materials with all lifts and complete as per specifications.MORTH Specification No.202. (Page No.139,S.I.No.18.49)	Rmt	1	20			20.00
4.00	Maintenance for 1st Year: KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202 (KPWD SOR 16-17,18.20,Page No.137)	Cum	1	40	1	0.5	20.00
5.00	Maintenance for 1st Year: KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonary, cement concrete, woodwork, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar (Page No 137,SI No : 18.23)		10	3	0.5	0.23	3.45
6.00	Maintenance for 1st Year: KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 1.00Km and complete as per specifications. MORTH specification No.301(Including transporting charges, loading and unloading for lead 5km) (Page No 143,SI No : 19.14)	Cum	1.00	100	5	0.5	250.00
7.00	Maintenance for 1st Year: KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(KPWD 16-17,SI No.2.11,Pg. No.6)		1.00	30	5	0.5	75.00
8.00	Maintenance for 1st Year: KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3.(KPWD 16-17,SI No.19.64,Pg. No.149)	Sqm	1.00	100		5	500.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
9.00	Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2015-16)	Cum	1.00	15	5	0.1	7.50
10.00	Maintenance for 1st Year: KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material	Cum	1.00	50	2.5	0.15	18.75
11.00	Maintenance for 1st Year: KSRB 4.2.1 : Providing and laying in position reiforcement cement concrete of design Mix M25 with OPC cement @340Kgs,with 20mm and down size graded granite metal coarse aggregate @ 0.47 cum with super plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 at machine mixed,concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls,return walls,walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of machinery,curing,complete but excluding cost of reinforcement as per specifications. (Page No 13,SI No : 4.10)	Cum	1.00	200	0.2	1.2	48.00
12.00	Maintenance for 1st Year: KSRB 4.6.1 Providing and removing centering, shuttering, strutting, propping etc.,and removal of formwork for foundations, footings, bases of columns for mass concrete including cost of all materials,labour complete as per specifications. Specification No. KSB 4.6.2 (Page No 15,SI No: 4.28)		2.00	200		0.9	360.00
13.00	Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work including straighting, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to thr adjoing members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinary complete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500	MT	1.00	3.84			3.84
14.00	Maintenance for 1st Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of sub-grade with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory rollercompaction by vibratory roller to 97% of proctors density) MORTH Specification No. 305	Cum	6.00	3.5	3.5	0.5	36.75
15.00	Maintenance for 1st Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications.Morth specification No.601 (Page No 176,SI No : 22.1)	Cum	6.00	3.5	3.5	0.1	7.35

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
16.00	Maintenance for 1st Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs, with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days, mixed in a batching plant, transported to site, Manually laid and compacting with palte compactor, finishing and curing complete as per specifications. Morth specification No.601 (RA attached)	Cum	1.00	100	2	0.1	20.00
17.00	Maintenance for 1st Year: KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars at 4.5m intervals, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per sprcifications MORTH specification No.602.do with M40 (420Kg per cum Cement,C.A,0.67 cum F.A.044Cum	Cum	6.00	3.5	3.5	0.23	16.91
18.00	Maintenance for 1st Year: Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealant manufacturer recommends and pouring the sealant all complete including material, manpower (Non SOR Item)	Rmt	1.00	35			35.00
19.00	Maintenance for 1st Year: KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints longitudinal joints and expansion joints in concrete pavement using epoxy mortar concrete complete as per specifications.Morth specification No.3005.1 (Page No 257,SI No : 35.8)	Rmt	1.00	50			50.00
20.00	Maintenance for 1st Year: Providing and laying at or near ground level factory made kerb stone of M-20 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-incharge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge). (RA Attached)	Cum	1	1	0.103		0.10
21.00	Maintenance for 1st Year: Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of CC 1:2:4 and Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,Sl No : 5.3)	Cum	1	90	0.0279		2.51
22.00	Maintenance for 1st Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,made out of CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3)	Cum	1	25	0.0118		0.30

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
23.00	Maintenance for 1st Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-incharge.	Rmt	100				100.00
24.00	Maintenance for 1st Year: KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No 182,SI No : 24.1)	Sqm	1	70	0.165		11.55
25.00	Maintenance for 1st Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting.	Nos.	3.00				3.00
26.00	Maintenance for 1st Year: P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached)	Nos.	8.00				8.00
27.00	Maintenance for 1st Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm at level footpath. (Rate analysis attached)	Nos.	1.00				1.00
28.00	Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes to the required alignments including specials and grade as indicated in drawings/design and hydraulically testing of the pipe line. The rate shall include all jointing materials, testing apparatus and water for testi g etc as directed by the Engineer in charge (page No.41, Item No.7, KUWSDB SOR 2016-17)	Rmt	1.00	6.00			6.00
29.00	Maintenance for 1st Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100mm dia, of self cleaning design with screwed down or hinged grating with or without vent arm including cutting and making good the walls and floors, cost of materials, labour, testing, complete as per specifications Specification No. KBS 11.1.10. (PWD SR 2015-16,P.No.86, SI.No.12.89)	Nos.	1.00	10			10.00
30.00	Maintenance for 1st Year: KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings complete as per specifications. Case-III: Triple row for three utility services. (PWD SR 2015-16,SI.No.24.36)	Rmt	1	4.00			4.00
31.00	Maintenance for 1st Year: Providing and laying Dia 200mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5, Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7. The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years. (Market Rate)	Rmt	1	150			150.00
32.00	Maintenance for 1st Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5, Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7. The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years. (Market Rate)	Rmt	1	100			100.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
33.00	Maintenance for 1st Year: Providing and Fixixng Spacers for Power Ducts of size 200 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20				20.00
34.00	Maintenance for 1st Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20				20.00
35.00	Maintenance for 1st Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lubricant inner layer for ICT fibre cables comforming to ASTMF 2160 and /or equivalent indian standard and conveying to work site including loading and unloading at both destination and rolling,lowering into trenches,laying true to line and jointing of pipe etc.Complete. (Market Rate)	Rmt	1	40			40.00
36.00	Maintenance for 1st Year: Supplying and Application charges required for stamping the freshly laid new concrete (Concrete rate is not included in this item) including finishing and colouring the top surface accurately to the required level, shape and size using approved colour shade and staping it using approved stamp pattern and antiquitting it on top with approved colour. Sealing entire area with concrete sealer.	Sqm	1	100	2		200.00
37.00	Maintenance for 1st Year: Providing and laying heavy duty cobble stones 75mm thick, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 30mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. (Page No 101,SI No: 14.7)	Sqm	1.00	20	1.5		30.00
38.00	Maintenance for 1st Year: KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No. 507 -using 100/120 TPH capacity H.M.P. with sensor paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 16-17,S.I.No.21.17.1,Page No.163)	Cum	4.00	2.5	8	0.15	12.00
39.00	Maintenance for 1st Year: KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-40 Bitumen	Cum	4.00	2.5	8	0.04	3.20
40.00	Maintenance for 1st Year: KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications	Nos.	10.00				10.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
41.00	Maintenance for 1st Year: Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface:Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area,thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be level,uniform and free from streak and holes complete as per specifications.MORTH specification No.803 (Page No 192,SI No : 24.57)	Sqm	1.00	200	0.15		30.00
42.00	Maintenance for 1st Year: Operation and Maintenance for eToilets Stainless Steel Public Model as specified in Road and Other works BOQ Item No.45.	Nos	3.00				3.00
43.00	Maintenance for 1st Year: Providing and fixing of S.S. Bollards (SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	2.00				2.00
44.00	Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SECTION and bars (shop drawing to be approved),with vertical support of 0.9m @2.2mc/c , all complete to the satisfaction of the Landscape architect.(Non SOR Item)	MT	1.00	0.3			0.30
45.00	Maintenance for 1st Year: Excavation and removal of silt and silt mixed with sand in slussy condition from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with lead upto 50 m and all lifts. For Desilting of drains and grit chambers including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-in-charge.	Cum	2.00	7250	0.7	0.1	1015.00
46.00	Maintenance for 1st Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Earth	Cum	1.00	200			200.00
47.00	Maintenance for 1st Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Debris	Cum	1.00	70			70.00
48.00	Electrical Works Maintenance for 1st Year: Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required (Delhi analysis of rates E & M 2016, item 12.42, pg 395))	Nos.	1				1.00
49.00	Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with oor opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 m pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 155 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5)	Nos.	1				1.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
Lig Fa Oc 20 bo 50.00 sp pe mr wir wir for	aintenance for 1st Year: ghting Pole, 4 m abrication, supply and erection of 4 meters long hot dip Galvanised ctagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 062 for base plate with door opening arrangement, icluding suitable bards, bakelite sheet and MCBs as per IS specifications suitable for wind seed of 47 m/sec for 5 4 pole in single section and single joint welded as er IS 9595/IS 10178 AWG having dimensions bottom 130 mm dia, top 70 m with 3 mm thick, suitable base plate and 4 nos. of long J bolts along ith template and the pole shall be hot dip galvanized in single dipping ith not less than 65 micron as per ASTM - A123 and 153 etc., (excluding undation) as per drawing appended lef Electrical SOR SI No.5.14.2)	Nos.	1				1.00
51.00 Su lur 51.00 etc Do	aintenance for 1st Year: upplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor minaries and mounted on Octagonal pole using necessary bolts,nuts, c. complete ouble Cross arm - 1500 mm Ref Electrical SOR SI No.5.18.5)	Nos.	1				1.00
52.00 Sulur etc Sii (R	aintenance for 1st Year: upplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor minaries and mounted on Octagonal pole using necessary bolts,nuts, c. complete ingle Cross arm - 1500 mm Ref Electrical SOR SI No.5.18.2)	Nos.	1				1.00
53.00 Pa 8n	aintenance for 1st Year: ainting of Existing street light pole after scrapping the old paint and ainted with suitable colour enamel including coping/footing of the pole mtr and above street light pole Ref Electrical SOR SI No.16.28.3)	Nos.	242.00				242.00
54.00 Su	aintenance for 1st Year: upply, installation, testing and commissioning of outdoor junction box for ounting MCB/Contactors with all required accessories and componenets	Nos.	1.00				1.00
55.00 cro rec 5-	aintenance for 1st Year: upply and fixing of miniature circuit breaker on exisiting board using ecessasary fixing material and 'C' type curve, indicator ON/OFF, energy oss-3 with short circuit breaking capacity of 10 KA complete wiring as quired confirming to IEC 60898 32A TPN ectrical SOR- 6.16.5)	Nos.	1.00				1.00
L1	Γ Cable						
Su ex wii 56.00 arı GI 4 0	aintenance for 1st Year: upplying of 1.1 kV LT cable having aluminium conductor PVC insulated, ktruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm lire armoured) as per IS-3975:1990 and extruded PVC outer sheathed rmoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of ROUP B Core x16 Sq.mm PVC Aluminium Conductor, Ref Electrical SOR SI No.7.5,7.5.4)	m	1	60.00			60.00
57.00 Su an 11	aintenance for 1st Year: upply and drawing flexible multicore cable with electrolyte grade flexible opper with low conductor conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insulation and sheathed suitable for working voltage up to 100 V as per IS-694:1990 and conforming to GTP of Group A. C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	m	1	10.00			10.00
58.00 Wil 16 (R	aintenance for 1st Year: upplying tinned copper lugs and crimping and wiring to terminal point for ire of following sizes S Sq.mm PVC Aluminium Conductor Ref Electrical SOR SI No.7.21,7.21.6)	Nos	10				10.00
59.00 wi	aintenance for 1st Year: upplying tinned copper lugs and crimping and wiring to terminal point for ire of following sizes .5 sq. mm copper conductor	Nos	8				8.00
	Ref Electrical SOR SI No.7.21.2)						

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
60.00	Maintenance for 1st Year: Chemical Earthing for grounding,conduits,IC cut outs and otherequipmentson the mter boardby using copper /SS rod with earth enhancing backfill compound which is non corrosive ,thermally,conductive,potential,to permissible,limits,superior,fault,conductive capacity,non toxic,weather resistance and capable of achieving ohmic value less than one ohm (Ref Electrical SOR Pg.No.64,SI No.7.23.6)	Kit	1				1.00
61.00	Maintenance for 1st Year: Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3)	Rmt	1	50			50.00
	Landcaping Works						
62.00	SOIL MIXES and Ground Preparation Maintenance for 1st Year: Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item)	Cum	1	20	0.5	0.15	1.50
63.00	Maintenance for 1st Year: KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)	Cum	1	15	0.5	0.1	0.75
64.00	Maintenance for 1st Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 18-19,Page No.150,SI No.19.77)		1	40	0.5	0.1	2.00
65.00	Maintenance for 1st Year: Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)	Cum	1	40	0.5	0.1	2.00
66.00	Soil preparation of Lawn Maintenance for 2nd Year: Maintenance of lawns or Turfing of slopes (rough grassing) for a period of one year including watering etc complete including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-in-charge.		1.00	382.19			382.19
67.00	TURF Maintenance for 1st Year: ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	1	5	0.6		3.00
68.00	IRRIGATION Maintenance for 1st Year: Watering with tanker to landscape area and plants for one year						
69.00	Maintenance for 1st Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees, sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item)		1	5	0.6		3.00

Assistant Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City 5.3 R.A. For Maintenance of 1st Year- DPR 5

	Maintenance for 1st Year:		anna Sarat P				
	Taking out existing CC interlocking paver blocks from footpath/		_				
1	etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately						
	and stacking of serviceable material within 50 metre lead as	per dire	ction of Engineer	·-in-Charge.(
	attached)						
	Basic rate		68.16				
	Maintenance -1st year escalation of 4%		2.73				
	Add 10% For area weightage (Mangalore City)		7.09				
	That 1070 For area meightage (mangalere entry)	Rate	77.98				
		Itato	77.50	Oqiii			
	Maintenance for 1st Year:						
2	KSRRB M200.Dismantling of cement concrete pavement tools, breaking to pieces not exceeding 0.02 cum in volume an disposal of dismantled material stacking serviceble and unservic specifications.MORTH specification No.202.(Including transporting 5km-Extra)	d stock peable ma	oilling at designate terials separately	ed locations a complete as			
	(Page No 138,SI No : 18.47)						
	Basic rate		899				
	Maintenance -1st year escalation of 4%		35.96				
	Add 10% For area weightage (Mangalore City)		93.5				
	That 10701 of area weightage (mangalore only)	Rate	1028.46				
		Nate	1020.40	Juin			
•	Specification No 202	-	er specifications.M				
3	Specification No.202. (Page No.139,S.I.No.18.49)						
	(Page No.139,S.I.No.18.49) Basic rate		12.00				
	(Page No.139,S.I.No.18.49) Basic rate Maintenance -1st year escalation of 4%		12.00 0.48				
	(Page No.139,S.I.No.18.49) Basic rate		12.00 0.48 1.25				
	(Page No.139,S.I.No.18.49) Basic rate Maintenance -1st year escalation of 4%	Rate	12.00 0.48				
	(Page No.139,S.I.No.18.49) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City)	Rate	12.00 0.48 1.25				
	(Page No.139,S.I.No.18.49) Basic rate Maintenance -1st year escalation of 4%	, bridges, k, includii eable mat nical Mea	12.00 0.48 1.25 13.73 retaining walls and g T&P and scafferial and stacking and stacking and stacking ans. A. Cement Co	Rmt d other struct folding where the servicea			
	(Page No.139,S.I.No.18.49) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-13.1. Dismantling of existing structures like culverts comprising of masonry, cement concrete, wood work, steel worn necessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. II. By Mechan	, bridges, k, includii eable mat nical Mea	12.00 0.48 1.25 13.73 retaining walls and g T&P and scafferial and stacking and stacking and stacking ans. A. Cement Co	Rmt d other struct folding where the serviceancrete Grade			
	(Page No.139,S.I.No.18.49) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-13.1. Dismantling of existing structures like culverts comprising of masonry, cement concrete, wood work, steel wor necessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. II. By Mecha 15 &M-20. MORTH Specification No. 202 (KPWD SOR 18-19,18.2)	, bridges, k, includii eable mat nical Mea	12.00 0.48 1.25 13.73 retaining walls anng T&P and scafferial and stacking ns. A. Cement Colo.137)	Rmt d other struct folding where the servicea ncrete Grade			
	(Page No.139,S.I.No.18.49) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-13.1. Dismantling of existing structures like culverts comprising of masonry, cement concrete, wood work, steel worn necessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. II. By Mecha 15 &M-20. MORTH Specification No. 202 (KPWD SOR 18-19,18.2) Basic rate Maintenance -1st year escalation of 4%	, bridges, k, includii eable mat nical Mea	12.00 0.48 1.25 13.73 retaining walls anng T&P and scafferial and stacking ns. A. Cement Colo.137) 390 15.6	Rmt d other struct folding where the servicea ncrete Grade			
	(Page No.139,S.I.No.18.49) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-13.1. Dismantling of existing structures like culverts comprising of masonry, cement concrete, wood work, steel worn necessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. II. By Mechal 15 &M-20. MORTH Specification No. 202 (KPWD SOR 18-19,18.2) Basic rate	, bridges, k, includir eable mat nical Mea 20,Page N	12.00 0.48 1.25 13.73 retaining walls an ang T&P and scaff erial and stacking ans. A. Cement Co No.137) 390 15.6 40.56	Rmt d other struct folding where the servicea ncrete Grade			
	(Page No.139,S.I.No.18.49) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-13.1. Dismantling of existing structures like culverts comprising of masonry, cement concrete, wood work, steel worn necessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. II. By Mecha 15 &M-20. MORTH Specification No. 202 (KPWD SOR 18-19,18.2) Basic rate Maintenance -1st year escalation of 4%	, bridges, k, includii eable mat nical Mea	12.00 0.48 1.25 13.73 retaining walls anng T&P and scafferial and stacking ns. A. Cement Colo.137) 390 15.6	Rmt d other struct folding where the servicea ncrete Grade			
4	(Page No.139,S.I.No.18.49) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-13.1. Dismantling of existing structures like culverts comprising of masonry, cement concrete, wood work, steel wornecessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. II. By Mechan 15 &M-20. MORTH Specification No. 202 (KPWD SOR 18-19,18.2) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-12.1. Dismantling of existing structures like culverts comprising of masonary, cement concrete, woodwork, steel wornecessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar	Rate p, bridges, k, including the season of	12.00 0.48 1.25 13.73 retaining walls an ang T&P and scaff erial and stacking ans. A. Cement Co No.137) 390 15.6 40.56 446.16 retaining walls an ang T&P and scaff	Rmt d other struct folding where the serviceancrete Grade Cum d other struct folding where			
4	Page No.139,S.I.No.18.49) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-13.1. Dismantling of existing structures like culverts comprising of masonry, cement concrete, wood work, steel wor necessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. II. By Mechan 15 &M-20. MORTH Specification No. 202 (KPWD SOR 18-19,18.2) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-12.1. Dismantling of existing structures like culverts comprising of masonary, cement concrete, woodwork, steel woon necessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar (Page No 137,SI No : 18.23)	Rate p, bridges, k, including the season of	12.00 0.48 1.25 13.73 retaining walls an ang T&P and scaff erial and stacking and stacking and stacking and scaff 40.56 446.16 retaining walls an ang T&P and scaff erial and stacking an	Rmt d other struct folding where the serviceancrete Grade Cum d other struct folding where			
4	Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-13.1. Dismantling of existing structures like culverts comprising of masonry, cement concrete, wood work, steel wor necessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. II. By Mechan 15 &M-20. MORTH Specification No. 202 (KPWD SOR 18-19,18.2) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-12.1. Dismantling of existing structures like culverts comprising of masonary, cement concrete, woodwork, steel wor necessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar (Page No 137,SI No : 18.23) Basic rate	Rate p, bridges, k, including the season of	12.00 0.48 1.25 13.73 retaining walls an ng T&P and scafferial and stacking ns. A. Cement Colo.137) 390 15.6 40.56 446.16 retaining walls an ng T&P and scafferial and stacking and stacking and stacking 351	Rmt d other struct folding where the servicea ncrete Grade Cum d other struct folding where the servicea the servicea the servicea			
4	Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-13.1. Dismantling of existing structures like culverts comprising of masonry, cement concrete, wood work, steel wornecessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. II. By Mechan 15 &M-20. MORTH Specification No. 202 (KPWD SOR 18-19,18.2) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-12.1. Dismantling of existing structures like culverts comprising of masonary, cement concrete, woodwork, steel wornecessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar (Page No 137,SI No: 18.23) Basic rate Maintenance -1st year escalation of 4%	Rate p, bridges, k, including the season of	12.00 0.48 1.25 13.73 retaining walls and stacking and stacking and stacking and stacking and stacking and stacking and stacking and stacking aretaining walls and stacking aretain and stacking and stacking and stacking as a stacking and stacking as a st	Rmt d other struct folding where the servicea ancrete Grade Cum d other struct folding where the servicea			
4	Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-13.1. Dismantling of existing structures like culverts comprising of masonry, cement concrete, wood work, steel wor necessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. II. By Mechan 15 &M-20. MORTH Specification No. 202 (KPWD SOR 18-19,18.2) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M200-12.1. Dismantling of existing structures like culverts comprising of masonary, cement concrete, woodwork, steel wor necessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar (Page No 137,SI No : 18.23) Basic rate	Rate p, bridges, k, including the season of	12.00 0.48 1.25 13.73 retaining walls an ng T&P and scafferial and stacking ns. A. Cement Colo.137) 390 15.6 40.56 446.16 retaining walls an ng T&P and scafferial and stacking and stacking and stacking 351	Rmt d other struct folding where the services and other struct folding where the services the services the services the services.			

	Maintenance for 1st Year:			
	KSRRB M300-14. Excavation for roadwork in all types of soil wit	h hydrauli	c excavator of 0.0	hucket canacity
	including cutting and loading in tippers,trimming bottom and side			
6	lines and grades and cross sections, and transporting disposal lo	cation up	to a lead of 1.00K	m and complete
	as per specifications.			
	MORTH specification No.301(Including transporting charges, load	ling and u	nloading for lead 5	ikm)
	(Page No 143,SI No : 19.14)	•	-	,
	Basic rate		41	
	Dasio rate		10.24	
	Maintanana Astronomonaletian et 40/			
	Maintenance -1st year escalation of 4%		2.05	
	Add 10% For area weightage (Mangalore City)		4.31	
		Rate	57.60	Cum
	Maintenance for 1st Year:	-		
	KSRB 2-4: Refilling available earth around pipe lines, cables	in lavers	s not exceeding 2	20cms in depth
7	compacting each deposited layer by ramming after watering with			
	cost of all labour complete as per specifications.(KPWD 18-19,SI			1.0 m. molading
		110.2.11,6		
	Basic rate		120	
	Maintenance -1st year escalation of 4%		4.8	
	Add 10% For area weightage (Mangalore City)		12.48	
		Rate	137.28	
		11410	.01.20	
	Maintenance for 1st Year:			
			(l £ 0	
	KSRRB 300-Compaction KSRRB 300-58. Compaction of original			
8	10 tonnes power roller including filling in depression occuring during			
	of machinery complete as per specifications. MORTH / Chapter 3.	.(KPWD 1	8-19,SI No.19.64,	Pg. No.149)
	Basic rate		6	
	Maintenance -1st year escalation of 4%		0.24	
	Add 10% For area weightage (Mangalore City)		0.62	
	Add 10% For area weightage (Mangalore City)	Dete		
		Rate	0.80	Sqm
	Maintenance for 1st Year:			
	KSRB 4-1.6; Providing and laying in position plain cement co			
9	240kgs, with 20mm and down size graded granite metal coarse	aggregate	es @ 0.69 cum an	d fine aggregtes
9	@ 0.459cum, machine mixed, concrete laid in layers not exc	eeding 1	5 cms. thick, wel	I compacted, in
	foundation, plinth and cills, ncluding cost of all materials, labour,			
	specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6		, .	
	Basic Rate	1	5900	
-	Maintenance -1st year escalation of 4%		236	
	·			
	Add 10% For area weightage (Mangalore City)		613.6	
		Rate	6749.60	Cum
	Maintenance for 1st Year:			
	KSRRB M400-6.1. Construction of granular sub-base by providing	g close ar	aded crushed stor	ne aggregates of
	granite / trap / basalt material, mixing in a mechaical mix plant			
10	site, spreading in uniform layers with motor grader on prepared si			
	to achieve the desired density, complete as per specifications. A			
	· · · · · · · · · · · · · · · · · · ·	. I latit ivii	k Method Close	graded grandial
	sub-base material as per 400-1 For Grading-II Material		1	
	Basic Rate		2166	
	Maintenance -1st year escalation of 4%		86.64	
	Add 10% For area weightage (Mangalore City)		225.26	
	5 mgs (m 5 ms > 5 mg)	Rate	2477.90	
		1.000		
	1	_1	I .	I

	Maintenance for 1st Year:						
	KSRB 4.2.1 : Providing and laying in position reiforcement cement concrete of design Mix M25 with OPC						
	cement @340Kgs, with 20mm and down size graded granite metal coarse aggregate @ 0.47 cum with super						
	plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 a	at machin	ne mixed,concrete	laid in layers r			
11	exceeding 15cms thick, vibrated for all works in foundation for						
	walls, walls (any thickness) including attached pilasters, colun	nnspillars	s, posts, struts,	buttresses, b			
	blocks, anchor blocks & plinths etc., Including cost of labour, HOM						
	cost of reinforcement as per specifications.		<i>,,</i> 0, 1				
	(Page No 13,SI No : 4.10)						
	Basic Rate		6198				
	Maintenance -1st year escalation of 4%		247.92				
	Add 10% For area weightage (Mangalore City)		644.59				
	Add 10761 of area weightage (Mangalore City)	Rate	7090.51				
		Nate	7030.31	Cum			
	Maintenance for 1st Year:						
	KSRB 4.6.1 Providing and removing centering, shuttering, strutting						
12	foundations, footings, bases of columns for mass concrete including	ng cost o	of all materials, lac	our complete			
	per specifications.						
	Specification No. KSB 4.6.2						
	(Page No 15,SI No : 4.28)						
	Basic Rate		263				
	Maintenance -1st year escalation of 4%		10.52				
	Internative - 13t year escalation of +70						
	Add 10% For area weightage (Mangalore City)		27.35				
	· · · · · · · · · · · · · · · · · · ·	Rate	27.35 300.87				
	· · · · · · · · · · · · · · · · · · ·						
	Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o	luding or welding	300.87 g wherever require	Sqm ed,tying with			
13	Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever necessity.	luding or welding ssary con	300.87 g wherever require	ed,tying with gn (laps,hooks			
13	Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, label	luding or welding ssary con	300.87 g wherever require	ed,tying with gn (laps,hooks			
13	Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, labs specifications. Specification No. KBS4.6.3.	luding or welding ssary con	300.87 g wherever require	ed,tying with gn (laps,hooks			
13	Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, labs specifications. Specification No. KBS4.6.3. do with TMT bars Fe500	luding or welding ssary con	g wherever requirently as per design of machinary con	ed,tying with gn (laps,hooks nplete as per			
13	Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, labs specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate	luding or welding ssary con	g wherever requirently as per design of machinary con	ed,tying with gn (laps,hooksnplete as per			
13	Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, labs specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance -1st year escalation of 4%	luding or welding ssary con	g wherever requirently appears of machinary control 70782	ed,tying with gn (laps,hooks			
113	Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, labs specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate	luding or welding ssary con our,HOM	g wherever requirently as per design of machinary con 2831.28	ed,tying with gn (laps,hooks nplete as per			
113	Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, labs specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance -1st year escalation of 4%	luding or welding ssary con	g wherever requirently appears of machinary control 70782	ed,tying with gn (laps,hooks nplete as per			
13	Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, labs specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance -1st year escalation of 4%	luding or welding ssary con our,HOM	g wherever requirently as per design of machinary con 2831.28	ed,tying with gn (laps,hooks nplete as per			
13	Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, labs specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance -1st year escalation of 4%	luding or welding ssary con our,HOM	g wherever requirently as per design of machinary con 2831.28	ed,tying with gn (laps,hooks nplete as per			
113	Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, labs specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City)	luding or welding ssary con our,HOM Rate	g wherever require nplete as per design of machinary con 70782 2831.28 7361.33 80974.61	ed,tying with gn (laps,hooks nplete as per			
	Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, labs specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City)	luding or welding ssary con our, HOM	g wherever require as per design of machinary con 2831.28 7361.33 80974.61	ed,tying with gn (laps,hooks nplete as per			
	Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, labs specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Consti	luding or welding ssary con our, HOM Rate ruction of grading t	g wherever require as per design of machinary con 2831.28 7361.33 80974.61 sub-grade with a to required slope a	ed,tying with gn (laps,hooks nplete as per			
	Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, labs specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction meet requirement of Table No. 300-2 complete as per specificat	luding or welding ssary con our,HOM Rate ruction of grading t ions (incl	g wherever require nplete as per design of machinary con 2831.28 7361.33 80974.61 sub-grade with approximately to required slope a uding cost of earth	ed,tying with gn (laps,hooks nplete as per			
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113	Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, labs specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of Subgrade as per specificat charges & compaction by vibratory rollercompaction by vibratory rollercompaction by vibratory rollercompaction No. 305 Basic Rate	luding or welding ssary con our,HOM Rate ruction of grading t ions (incl	g wherever require nplete as per design of machinary con 70782 2831.28 7361.33 80974.61 sub-grade with approximate to required slope and uding cost of earth of proctors denies 513	ed,tying with gn (laps,hooks nplete as per			
	Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, lab specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of Subgrade. KSRRB M300-55. Construction of Subgrade. KSRRB M300-55. Construction of Table No. 300-2 complete as per specificat charges & compaction by vibratory rollercompaction by vibratory rollercompaction by vibratory rollercompaction by vibratory rollercompaction No. 305 Basic Rate Maintenance -1st year escalation of 4%	luding or welding ssary con our,HOM Rate ruction of grading t ions (incl	g wherever require as per design of machinary con 70782 2831.28 7361.33 80974.61 sub-grade with a storequired slope a uding cost of earth % of proctors deni	ed,tying with gn (laps,hooks nplete as per			
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	Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, lab specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of Subgrade. KSRRB M300-55. Construction of Table No. 300-2 complete as per specificat charges & compaction by vibratory rollercompaction by vibratory rospecification No. 305 Basic Rate Maintenance -1st year escalation of 4% Add 20km lead (17.4 KSRRB M100-4.1-Cost of haulage excluding loading and unloading MORTH-100/Chapter 1-case 1-Surface Road)=2.5 Rs/ Tkm x 1.28 T x 20km Sub Total	luding or welding ssary con our,HOM Rate ruction of grading t ions (incl	g wherever require nplete as per design of machinary con 70782 2831.28 7361.33 80974.61 sub-grade with approximately to required slope a uding cost of earth of proctors den 513 20.52 51.2	ed,tying with gn (laps,hooks nplete as per			
	Maintenance for 1st Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/binding wire and anchoring to thr adjoing members wherever neces and wastage shall not be measured and paid) cost of materials, lab specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of Subgrade. KSRRB M300-55. Construction of Table No. 300-2 complete as per specificat charges & compaction by vibratory rollercompaction by vibratory ro Specification No. 305 Basic Rate Maintenance -1st year escalation of 4% Add 20km lead (17.4 KSRRB M100-4.1-Cost of haulage excluding loading and unloading MORTH-100/Chapter 1-case 1-Surface Road)=2.5 Rs/ Tkm x 1.28 T x 20km	luding or welding ssary con our,HOM Rate ruction of grading t ions (incl	g wherever require nplete as per design of machinary con 70782 2831.28 7361.33 80974.61 sub-grade with approximately to required slope and uding cost of earth of proctors denied slope and the sub-grade with approximately cost of earth of proctors denied slope and sl	ed,tying with gn (laps,hooks nplete as per			

Maintenance for 1st Year:

KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications.Morth specification No.601 (Page No 176,SI No : 22.1)

Basic Rate		4048	
Maintenance -1st year escalation of 4%		161.92	
Add 10% For area weightage (Mangalore City)		420.99	
	Rate	4630.91	Cum

Maintenance for 1st Year:

16

17

18

KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,Manually laid and compacting with palte compactor,finishing and curing complete as per specifications.Morth specification No.601 (RA attached)

and the second s	Rate	4209.92	Cum
Add 10% For area weightage (Mangalore City)		382.72	
Maintenance -1st year escalation of 4%		147.2	
Basic Rate		3680	

Maintenance for 1st Year:

KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars at 4.5m intervals, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per sprcifications MORTH specification No.602.do with M40 (420Kg per cum Cement,C.A,0.67 cum F.A.044Cum (Page No 176,SI No : 22.2.2)

Basic Rate		5765	
Maintenance -1st year escalation of 4%		230.6	
Add 10% For area weightage (Mangalore City)		599.56	
	Rate	6595.16 Cum	

Maintenance for 1st Year:

Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealant manufacturer recommends and pouring the sealant all complete including material, manpower (Non SOR Item)

Rate Approved as per EOI by MD MSCL Mangalore,Refer		115	
Sr.No.2		113	
Maintenance -1st year escalation of 4%		4.6	
	Rate	119.6	Rmt

	Maintenance for 1st Year:						
	KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar						
	KSRRB M3000-8 Repairs of spalled joints grooves of contraction	ioints Ionaitu	dinal joints and	expansion joints			
19							
	in concrete pavement using epoxy mortar concrete complete as per specifications. Morth specification No.3005.1						
	(Page No 257,Sl No : 35.8)						
	Basic Rate		331				
	Maintenance -1st year escalation of 4%		13.24				
	Add 10% For area weightage (Mangalore City)		34.42				
	3 3 (3 77	Rate	378.66	Rmt			
		110110					
	Maintenance for 1st Year:						
		o stone of N	1.20 grada con	ant concrete in			
	Providing and laying at or near ground level factory made kerl						
	position to the required line, level and curvature, jointed with cer						
20	including making joints with or without grooves (thickness of join						
20	than 5mm), including making drainage opening wherever required		etc. as per direc	tion of Engineer-			
	in-charge (length of finished kerb edging shall be measured for pa						
	(Precast C.C. kerb stone shall be approved by Engineer-in-charge	e).					
	(RA Attached)						
	Data Arrived as per Data englysis						
	Rate Arrived as per Rate analysis		47700.00				
	Basic Rate		17708.82				
	Maintenance -1st year escalation of 4%		708.35				
	Add 10% For area weightage (Mangalore City)		1841.72				
		Rate	20258.89	Cum			
	Maintenance for 1st Year:						
	Providin and fixing pre cast solid concrete Kerb stones as per the	drawing.ma	de out of CC 1	:2:4 and Jointed			
21	with CM 1:3 and finishing cutting, including cost of						
21	machinery,loading,unloading,lead and lift,transportation etc.,comp		orialojiabour,im	o onangoo o			
	(Page No 25,SI No : 5.3)	1010					
	,			T			
	Basic rate		15481.61				
	Maintenance -1st year escalation of 4%		619.26				
	Add 10% For area weightage		1610.09				
		Rate	17710.96	Cum			
	Maintenance for 1st Year:	I I		<u> </u>			
	Providin and fixing pre cast solid concrete water table(longitudina	l autter) as n	er the drawing	made out of CC			
00	1:2:4 and jointed with CM 1:3 and finishing cutting, including						
22			materiais,iabour	, fille charges o			
	machinery,loading,unloading,lead and lift,transportation etc.,comp	iete					
	(Page No 25,SI No : 5.3)						
	Basic rate		15481.61				
	Maintenance -1st year escalation of 4%		619.26				
	Add 10% For area weightage		1610.09				
	Trad 1070 For aroa Weightago	Rate	17710.96				
		Nate	177 10.30	Cuiii			
	Maintanana fau dat Varir						
	Maintenance for 1st Year:						
23	Removing and resetting of kerb stones. including cost of all mat						
23	all lead and lifts, labour charges including implementation of Env			guards & as pei			
	design, drawing, technical specifications and directions of Engineer	er-in-charge.					
	Basic rate		24				
	Maintenance -1st year escalation of 4%		0.96				
	Add 10% For area weightage	+ +	2.5				
	Add 10% For area weightage	D.1					
		Rate	27.46	KM			
	Maintenance for 1st Year:						
24	KSRRB 800-1. Painting two coats after filling the surface with synt	hetic ename	el paint in approv	ed shades on			
	new plastered concrete surfaces, with materials, labour complete						
	(Page No 182,SI No : 24.1)	as poi speci		Trapici o			
	Basic Rate	T T	80				
	Page 149	1 1	00				

	Maintananaa datuuru saaalatia: -f 40/		,	
	Maintenance -1st year escalation of 4%		3.2	
	Add 10% For area weightage (Mangalore City)		8.32	
		Rate	91.52	Sqm
	Maintenance for 1st Year:			
25	P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on M	lanhole for	electrical ducting.	
	As per Quotation	1	40704	T
	Basic Rate		10764	
	Discount 30%		-3229.2	
	Sub Total		7534.8	
	Fixing Charges @5%		538.2	
	Maintenance -1st year escalation of 4%		322.92	
		Rate	8395.92	Nos.
	Maintenance for 1st Year:	l .		
	P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raise	sad footnat	h on SWD	
26		sed footpat	III OII OVVD.	
	(Rate analysis attached)			
-	As per Quotation			
	Basic Rate		7179.00	
	Discount 30%		-2153.7	
	Sub Total		5025.3	
	Fixing Charges @5%		251.265	
	Maintenance -1st year escalation of 4%		211.06	
		Rate	5487.63	Nos.
	(Rate analysis attached) As per Quotation			
	Basic Rate		7912.28	
	Basis Itali		1912.20	
	Discount 30%		-2373.68	
	Discount 30% Sub Total		-2373.68	
	Discount 30% Sub Total Fixing Charges @5%		-2373.68 5538.6 276.93	
	Discount 30% Sub Total	Rate	-2373.68 5538.6 276.93 232.62	
	Discount 30% Sub Total Fixing Charges @5%	Rate	-2373.68 5538.6 276.93	
	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4%	Rate	-2373.68 5538.6 276.93 232.62	
	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year:		-2373.68 5538.6 276.93 232.62 6048.15	Nos.
20	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes t	to the requ	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in	Nos.
28	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes tand grade as indicated in drawings/design and hydraulically test	to the requiring of the	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line.The rate	Nos. Including special shall include a
28	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes tand grade as indicated in drawings/design and hydraulically tesijointing materials,testing apparatus and water for testi g etc a	to the requiring of the	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line.The rate	Nos. Including special shall include a
28	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes tand grade as indicated in drawings/design and hydraulically test jointing materials,testing apparatus and water for testi g etc a No.41,ltem No.7,KUWSDB SOR 2016-17)	to the requiring of the	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line.The rate by the Engineer	Nos. Including special shall include a
28	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes tand grade as indicated in drawings/design and hydraulically tesijointing materials,testing apparatus and water for testi g etc a No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate	to the requiring of the	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line.The rate by the Engineer	Nos. Including special shall include a in charge (pag
28	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes t and grade as indicated in drawings/design and hydraulically tesijointing materials,testing apparatus and water for testi g etc a No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4%	to the requiring of the	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line.The rate by the Engineer	Nos. Including special shall include a in charge (pag
28	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes tand grade as indicated in drawings/design and hydraulically tesijointing materials,testing apparatus and water for testi g etc a No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate	to the requiring of the	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line.The rate by the Engineer	Nos. Including special shall include a in charge (pag
28	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes t and grade as indicated in drawings/design and hydraulically tesijointing materials,testing apparatus and water for testi g etc a No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4%	to the requiring of the	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line.The rate by the Engineer	Nos. Including special shall include a in charge (pag
28	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes that and grade as indicated in drawings/design and hydraulically test jointing materials,testing apparatus and water for testing etc. a No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4% Add 10% on Labor Charges=Rs.47,For area weightage	to the requiring of the	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line.The rate by the Engineer	Nos. Including special shall include a in charge (pag
28	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes that and grade as indicated in drawings/design and hydraulically test jointing materials,testing apparatus and water for testing etc. a No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4% Add 10% on Labor Charges=Rs.47,For area weightage	to the requiting of the sidirected	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line.The rate by the Engineer 297 11.88 4.7	Nos. Including special shall include a in charge (pag
28	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes tand grade as indicated in drawings/design and hydraulically test jointing materials,testing apparatus and water for testi g etc a No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4% Add 10% on Labor Charges=Rs.47,For area weightage (Mangalore City)	to the requiting of the sidirected	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line.The rate by the Engineer 297 11.88 4.7	Nos. Including special shall include a in charge (pag
28	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes than display and grade as indicated in drawings/design and hydraulically test jointing materials,testing apparatus and water for testing etc at No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4% Add 10% on Labor Charges=Rs.47,For area weightage (Mangalore City) Maintenance for 1st Year:	to the requiring of the sidirected	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line.The rate by the Engineer 297 11.88 4.7 313.58	Nos. Including special shall include a in charge (pag
	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes that and grade as indicated in drawings/design and hydraulically test jointing materials, testing apparatus and water for testing etc. a No.41, ltem No.7, KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4% Add 10% on Labor Charges=Rs.47, For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100	o the requiring of the sidirected Rate Omm dia, o	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line.The rate by the Engineer 297 11.88 4.7 313.58	Nos. Including special shall include a in charge (pag
29	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes than discarded in drawings/design and hydraulically testing in the materials, testing apparatus and water for testing etc. a No.41, Item No.7, KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4% Add 10% on Labor Charges=Rs.47, For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100 screwed down or hinged grating with or without vent arm including	Rate Omm dia, or g cutting ar	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line. The rate by the Engineer 297 11.88 4.7 313.58 f self cleaning desired making good the self self cleaning desired making good the self self self self cleaning desired making good the self self self cleaning desired making good the self self self cleaning desired making good the self self self self cleaning desired making good the self self self self self self self sel	Nos. Including special shall include a in charge (page) Rm ign with e walls and
29	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes to and grade as indicated in drawings/design and hydraulically test jointing materials,testing apparatus and water for testing etc. a No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4% Add 10% on Labor Charges=Rs.47,For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100 screwed down or hinged grating with or without vent arm including floors, cost of materials, labour, testing, complete as per specifical.	Rate Omm dia, or g cutting ar	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line. The rate by the Engineer 297 11.88 4.7 313.58 f self cleaning desired making good the self self cleaning desired making good the self self self self cleaning desired making good the self self self cleaning desired making good the self self self cleaning desired making good the self self self self cleaning desired making good the self self self self self self self sel	Nos. Including special shall include a in charge (page) Rm ign with e walls and
29	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes than discarded in drawings/design and hydraulically testing in the materials, testing apparatus and water for testing etc. a No.41, Item No.7, KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4% Add 10% on Labor Charges=Rs.47, For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100 screwed down or hinged grating with or without vent arm including	Rate Omm dia, or g cutting ar	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line. The rate by the Engineer 297 11.88 4.7 313.58 f self cleaning desired making good the self self cleaning desired making good the self self self self cleaning desired making good the self self self cleaning desired making good the self self self cleaning desired making good the self self self self cleaning desired making good the self self self self self self self sel	Nos. Including special shall include a in charge (page) Rm ign with e walls and
29	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes to and grade as indicated in drawings/design and hydraulically test jointing materials,testing apparatus and water for testing etc. a No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4% Add 10% on Labor Charges=Rs.47,For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100 screwed down or hinged grating with or without vent arm including floors, cost of materials, labour, testing, complete as per specifical.	Rate Omm dia, or g cutting ar	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line. The rate by the Engineer 297 11.88 4.7 313.58 f self cleaning desired making good the self self cleaning desired making good the self self self self cleaning desired making good the self self self cleaning desired making good the self self self cleaning desired making good the self self self self cleaning desired making good the self self self self self self self sel	Nos. Including special shall include a in charge (page) Rm ign with e walls and
29	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes tand grade as indicated in drawings/design and hydraulically test jointing materials,testing apparatus and water for testilg etcla No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4% Add 10% on Labor Charges=Rs.47,For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 11-18-17.1 : Providing and fixing sand cast iron trap of 100 screwed down or hinged grating with or without vent arm including floors, cost of materials, labour, testing, complete as per specifical (PWD SR 2015-19,P.No.86, SI.No.12.89)	Rate Omm dia, or g cutting ar	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line.The rate by the Engineer 297 11.88 4.7 313.58 f self cleaning desired making good the cification No. KBS	Nos. Including special shall include a in charge (page) Rm ign with e walls and
29	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes tand grade as indicated in drawings/design and hydraulically tesijointing materials,testing apparatus and water for testilg etcla No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4% Add 10% on Labor Charges=Rs.47,For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 11-18-17.1 : Providing and fixing sand cast iron trap of 100 screwed down or hinged grating with or without vent arm including floors, cost of materials, labour, testing, complete as per specifical (PWD SR 2015-19,P.No.86, SI.No.12.89) Basic Rate Maintenance -1st year escalation of 4%	Rate Omm dia, or g cutting ar	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line.The rate by the Engineer 297 11.88 4.7 313.58 if self cleaning desemble and making good the cification No. KBS	Nos. Including special shall include a in charge (page) Rm ign with e walls and 11.1.10.
29	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes tand grade as indicated in drawings/design and hydraulically tesijointing materials,testing apparatus and water for testilg etclano.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4% Add 10% on Labor Charges=Rs.47,For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 11-18-17.1 : Providing and fixing sand cast iron trap of 100 screwed down or hinged grating with or without vent arm including floors, cost of materials, labour, testing, complete as per specifical (PWD SR 2015-19,P.No.86, SI.No.12.89) Basic Rate	Rate Omm dia, or g cutting ar	-2373.68 5538.6 276.93 232.62 6048.15 ired alignments in pipe line. The rate by the Engineer 297 11.88 4.7 313.58 f self cleaning desired making good the cification No. KBS	Nos. Including special shall include a in charge (page) Rm ign with e walls and 11.1.10.

	Maintenance for 1st Year:			
	KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-	29.1. Pro	viding and laying	of a reinforced
	cement concrete pipe duct, 300 mm dia, across the road (new co			
	cuts and toe of slope to toe of slope in fills, constructing head wa			
	granular material over top and sides of RCC pipe as per IRC:9			
30				•
	granular material free of rock pieces, outer to outer distance of			
	minimum450 mm in case of double and triple row ducts, joints to b			
	above higher than ground level to prevent entry of water and dir			7 and approved
	drawings complete as per specifications. Case-III :Triple row for the	hree utility	y services.	
	(PWD SR 2018-19,SI.No.24.36)			
	Basic Rate		5022	
	Maintenance -1st year escalation of 4%		200.88	
	Add 10% For area weightage (Mangalore City)		522.29	
	That 10701 of alloa Weightago (Mangaloro City)	Rate	5745.17	
		Nate	3773.17	IXIII
	Malatanana fan dat Varan			
	Maintenance for 1st Year:			
	Providing and laying Dia 200mm HDPE Electrical pipe Conduits			
	dimensional ratio of 13.5, Deflection not greater than 5% when ex	•	•	•
31	90°C under the over burden soil presuure and other physical prop	perties co	mforming to ASTI	MF 2160 and /or
	NEMA TC7. The expected service life of HDPE pipe conduits and a	accessorie	es shall not be less	s than 50 years.
	(Market Rate)			•
	Basic Rate (Without GST@18%)		1471.08	
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		78	
	No.50,Pg.No.123)		. •	
	Add 10% For area weightage (Mangalore City)		7.8	
	Sub Total		1556.88	
	Maintenance -1st year escalation of 4%		62.28	
	Walliterlance - 15t year escalation of 476	Doto		
		Rate	1619.16	KIII
	Martin and Art Vice			
	Maintenance for 1st Year:			
	Providing and laying Dia 160mm HDPE Electrical pipe Conduits			•
32	dimensional ratio of 13.5, Deflection not greater than 5% when ex			
32	90°C under the over burden soil presuure and other physical prop		•	
	NEMA TC7. The expected service life of HDPE pipe conduits a	and acces	ssories shall not	be less than 50
	years.(Market Rate)			
	Basic Rate (Without GST@18%)		996.3	
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		66	
	No.50,Pg.No.123)		00	
	Add 10% For area weightage (Mangalore City)		6.6	
	Sub Total			
			1068.9	
	Maintenance -1st year escalation of 4%	D. (42.76	
		Rate	1111.66	KM
	Maintenance for 1st Year:			
22	Providing and Fixixng Spacers for Power Ducts of size 200 mm	, to be p	olaced at an interv	al of 1.5 meter.
33	Spacers shall be made of ABS raw material.			
	(Market rate)			
	Basic Rate (Without GST@18%)		1003	
	Contractor Profit@10%		100.3	
	Maintenance -1st year escalation of 4%	Dete	40.12	
		Rate	1143.42	NOS.
	Maintenance for 1st Year:		_	
34	Providing and Fixixng Spacers for Power Ducts of size 160 mm	, to be p	laced at an interv	al of 1.5 meter.
J -1	Spacers shall be made of ABS raw material.			
	(Market rate)			
	Basic Rate (Without GST@18%)		1947	
	Contractor Profit@10%		194.7	
	Maintenance -1st year escalation of 4%		77.88	
	·	Rate	2219.58	
L	Page 151	1		1

	Maintenance for 1st Year:			
	Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore L	ubricant	inner layer for I	CT fibre cables
	comforming to ASTMF 2160 and /or equivalent indian standard a			
35	and unloading at both destination and rolling, lowering into trend			
	J	iles,iayiri	g true to line and	Jointing of Pipe
	etc.Complete.			
	(Market Rate)			
	Basic Rate (Without GST@18%)		561.7	
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		00	
	No.50,Pg.No.123)		36	
	Add 10% For area weightage (Mangalore City)		3.6	
	Sub Total		601.3	
	Maintenance -1st year escalation of 4%		24.05	
		Rate	625.35	Rm
	Maintenance for 1st Year:			
	Supplying and Application charges required for stamping the fresh	lv laid nev	w concrete (Concre	ete rate is not
36	included in this item) including finishing and colouring the top surfa	•	`	
30	and size using approved colour shade and staping it using approve			
		su stamp	pattern and antiqu	illing it on top
	with approved colour. Sealing entire area with concrete sealer.			
	Basic Rate (Without GST@18%)		624.00	
	Maintenance -1st year escalation of 4%		24.96	
	Add 10% For area weightage (Mangalore City)		64.9	
	Add 1076 For area weightage (Mangalore Oity)	Doto		
		Rate	713.86	Sqiii
	Maintenance for 1st Year:			
	Providing and laying heavy duty cobble stones 75mm thick, using	cement a	nd course sand fo	r manufacture of
	blocks of approved size, shape and colour with a minimum com	pressive	strength of 281 k	g per sqm over
	30mm thick sand bed (average thickness) and compacting with p	late vibra	tor having 3 tons o	compaction force
37	thereby forcing part of sand underneath to come up in between join			
	into its final level, including cost of materials, labour and HOM of m			
	(Page No 101,SI No : 14.7)	iacimicin	23 complete as per	specifications.
	(Fage No 101,51 No . 14.7)			
		1	T	T
	Basic rate		1114	
	Maintenance -1st year escalation of 4%		44.56	
	Add 10% For area weightage (Mangalore City)		115.86	
		Rate	1274.42	Sam
				•
	Maintenance for 1st Year:			
				d
	KSRRB M500-17. Providing and laying dense graded bituminous			
	specified grading, premixed with VG30 grade bituminous binder	and, tran	sporting the hot r	mix to work site,
38	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smooth	and, tranoth wheel	nsporting the hot red, vibratory and t	mix to work site, andem rollers to
38	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoot achieve the desired compaction as per MORTH table 500-10	and, tranoth wheel complete	nsporting the hot red, vibratory and to in all respects of	mix to work site, candem rollers to complete as per
38	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smooth	and, tranoth wheel complete	nsporting the hot red, vibratory and to in all respects of	mix to work site, candem rollers to complete as per
38	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoot achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF	and, tranoth wheel complete H capac	nsporting the hot red, vibratory and the in all respects of ity H.M.P. with se	mix to work site, candem rollers to complete as per
38	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoot achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No.)	and, tranoth wheel complete H capac	nsporting the hot red, vibratory and to in all respects of ity H.M.P. with se Page No.163)	mix to work site, candem rollers to complete as per
38	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoot achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No Basic rate	and, tranoth wheel complete H capac	ed, vibratory and the hot red, vibratory and the in all respects of ity H.M.P. with sepage No.163)	mix to work site, candem rollers to complete as per ensor paver Gr-II
38	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoot achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No Basic rate Maintenance -1st year escalation of 4%	and, tranoth wheel complete H capac	ed, vibratory and to all respects of ity H.M.P. with se Page No.163)	mix to work site, andem rollers to complete as per nsor paver Gr-II
38	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoot achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No Basic rate	and, tranoth wheel complete PH capaco.21.17.1,	red, vibratory and to all respects of ity H.M.P. with se Page No.163) 7839 313.56	mix to work site, andem rollers to complete as per nsor paver Gr-II
38	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoot achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No Basic rate Maintenance -1st year escalation of 4%	and, tranoth wheel complete H capac	ed, vibratory and to all respects of ity H.M.P. with se Page No.163)	mix to work site, andem rollers to complete as per nsor paver Gr-II
38	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoot achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No Basic rate Maintenance -1st year escalation of 4%	and, tranoth wheel complete PH capaco.21.17.1,	red, vibratory and to all respects of ity H.M.P. with se Page No.163) 7839 313.56	mix to work site, andem rollers to complete as per nsor paver Gr-II
38	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoot achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City)	and, tranoth wheel complete PH capaco.21.17.1,	red, vibratory and to all respects of ity H.M.P. with se Page No.163) 7839 313.56	mix to work site, andem rollers to complete as per nsor paver Gr-II
38	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoorachieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No. Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year:	and, tranoth wheel complete PH capaco.21.17.1,	resporting the hot red, vibratory and the in all respects of ity H.M.P. with see Page No.163) 7839 313.56 815.26	mix to work site, andem rollers to complete as per nsor paver Gr-II
38	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoot achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No. Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M500-19. Providing and laying bituminous concrete 40 m	and, tran oth wheel complete PH capac o.21.17.1, Rate	red, vibratory and to ed, vibratory and vibr	mix to work site, andem rollers to complete as per nsor paver Gr-II Cum t, using crushed
	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoot achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No. Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M500-19. Providing and laying bituminous concrete 40 raggregates of specified grading, premixed with bituminous binder	and, tran oth wheel complete PH capace 0.21.17.1, Rate mm thick r and fille	red, vibratory and to ed, vibratory and vibratory a	mix to work site, candem rollers to complete as per nsor paver Gr-II Cum t, using crushed hot mix to work
38	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoot achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No. Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M500-19. Providing and laying bituminous concrete 40 raggregates of specified grading, premixed with bituminous bindersite, laying with a paver finisher to the required grade, level ar	and, tran oth wheel complete PH capace 0.21.17.1, Rate mm thick r and fille and alignm	red, vibratory and the ed, vibratory and	mix to work site, andem rollers to complete as per nsor paver Gr-II Cum t, using crushed hot mix to work mooth wheeled,
	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoot achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No. Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M500-19. Providing and laying bituminous concrete 40 raggregates of specified grading, premixed with bituminous binder site, laying with a paver finisher to the required grade, level ar vibratory and tandem rollers to achieve the desired compaction as	and, tran oth wheel complete PH capace 0.21.17.1, Rate mm thick r and fille and alignm per MOF	red, vibratory and to ed, vibratory and vibratory a	mix to work site, andem rollers to complete as per nsor paver Gr-II Cum t, using crushed hot mix to work mooth wheeled, clause No. 500.9
	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoot achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No. Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M500-19. Providing and laying bituminous concrete 40 raggregates of specified grading, premixed with bituminous bindersite, laying with a paver finisher to the required grade, level ar	and, tran oth wheel complete PH capace 0.21.17.1, Rate mm thick r and fille and alignm per MOF	red, vibratory and to ed, vibratory and vibratory a	mix to work site, andem rollers to complete as per nsor paver Gr-II Cum t, using crushed hot mix to work mooth wheeled, clause No. 500.9
	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoorachieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No. Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M500-19. Providing and laying bituminous concrete 40 raggregates of specified grading, premixed with bituminous binder site, laying with a paver finisher to the required grade, level ar vibratory and tandem rollers to achieve the desired compaction as complete in all respects complete as per specifications. MORTI	and, tran oth wheel complete PH capace 0.21.17.1, Rate mm thick r and fille and alignm per MOF H Specific	red, vibratory and to ed, vibratory and vibratory a	mix to work site, andem rollers to complete as per nsor paver Gr-II Cum t, using crushed hot mix to work mooth wheeled, clause No. 500.9
	specified grading, premixed with VG30 grade bituminous binder laying to the required grade, level and alignment, rolling with smoorachieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TF (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 18-19,S.I.No. Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M500-19. Providing and laying bituminous concrete 40 raggregates of specified grading, premixed with bituminous binder site, laying with a paver finisher to the required grade, level ar vibratory and tandem rollers to achieve the desired compaction as complete in all respects complete as per specifications. MORTI capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with the specification of 4% and the second of 4% are specification of 4% and the second of 4% are specification of 4% and 10% are specification of 4% and 10% are specified grading, premixed with bituminous binder site, laying with a paver finisher to the required grade, level are vibratory and tandem rollers to achieve the desired compaction as complete in all respects complete as per specifications. MORTI capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with the specification of 4% achieves the desired compaction and the second of 4% achieves the desired compaction and the second of 4% achieves the desired compaction and the second of 4% achieves the desired compaction and the second of 4% achieves the desired compaction and the second of 4% achieves the desired compaction and the second of 4% achieves the desired compaction and the second of 4% achieves the desired compaction and the second of 4% achieves the desired compaction and the second of 4% achieves the desired compaction and the second of 4% achieves the desired compaction and the second of 4% achieves the desired compaction and the second of 4% achieves the desired compaction and the second of 4% achieves the desired compaction achiev	and, tran oth wheel complete PH capace 0.21.17.1, Rate mm thick r and fille and alignm per MOF H Specific	red, vibratory and to ed, vibratory and vibratory a	mix to work site, andem rollers to complete as per nsor paver Gr-II Cum t, using crushed hot mix to work mooth wheeled, clause No. 500.9 using40/60 TPH
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		1 1					
	Maintenance for 4 of Vocas						
	Maintenance for 1st Year: KSDDD M800 Bood markers / Bood stud KSDDD M800 35, Brown	idina and	fiving of road ctu	d 100v 100 mm			
40	KSRRB M800 Road markers / Road stud KSRRB M800-35. Providecast in aluminium, resistant to corrosive effect of salt and of						
40	concrete or asphaltic surface by drilling hole 30 mm upto a d						
	bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 c	•					
			<u> </u>	15			
	Basic rate		289				
	Maintenance -1st year escalation of 4%		11.56				
	Add 10% For area weightage (Mangalore City)	D. (30.06				
		Rate	330.62	NOS.			
	Maintenance for 1st Year:						
	Road Marking with hot applied Thermoplastic Compound with	n Reflectr	ising Glass Rea	ds on Concret			
	Surface: Providing and laying of hot applied thermoplastic companies with						
41	glass beads at 250 gms and 2 ltr of primer per sqm area, thickne						
71	glass beads as per IRC:35.The finished surface to be level, unifor						
	as per specifications.MORTH specification No.803		o nom on oak and	. Holoo complet			
	(Page No 192,SI No : 24.57)						
	Basic Rate		429				
	Maintenance -1st year escalation of 4%		17.16				
	Add 10% For area weightage (Mangalore City)		44.62				
	Control of the second s	Rate	490.78	Sqm			
				•			
	Maintenance for 1st Year:						
42	Operation and Maintenance for eToilets Stainless Steel Public M	lodel as s	pecified in Road a	and Other work			
	BOQ Item No.45.	'	•				
	Baisc rate		61200				
	Maintenance -1st year escalation of 4%		2448				
	Rate Approved as per EOI by MD MSCL Mangalore,Refer	Rate	63648	Nos			
	Sr.No.1	Nate	05040	1103.			
	Maintenance for 1st Year:						
43	Providing and fixing of S.S. Bollards(SS304) on footpath as specification (SS304) on footpath as specific	ied and d	irected by Engine	er -ın-charge			
	(NON SOR Item)						
	Rate Approved as per EOI by MD MSCL Mangalore,Refer						
	Sr.No.13		4500.00				
	Maintenance -1st year escalation of 4%		180				
		Rate	4680	Nos.			
	Maintenance for 1st Year:						
4.4	Providing and fixing of railing as detail design in MS HOLLOW SE	CTION an	d bars (shop drav	wing to be			
44	approved), with vertical support of 0.9m @2.2mc/c , all complete	to the sat	isfaction of the La	ındscape			
	architect.(Non SOR Item)						
	Rate Approved as per EOI by MD MSCL Mangalore,Refer						
	Sr.No.26		100000.00				
	Maintenance -1st year escalation of 4%		4000				
		Rate	104000	MT			
	Maintenance for 1st Year:						
	Excavation and removal of silt and silt mixed with sand in slussy condition from canal bed including disposing						
	off the same in spoil bank or on the canal embankment in layers as directed etc., complete with lead upto 50						
45	m and all lifts. For Desilting of drains and grit chambers including	cost of all	materials, scaffol	ding HOM of			
	machineries with all lead and lifts, labour charges including implem						
	Safeguards & as per design, drawing, technical specifications and						
	Basic Rate		179.00				
-	Maintenance -1st year escalation of 4%		7.16				
		Rate	186.16	Nos.			
	,	Rate	186.16				

	I						
	Maintenance for 1st Year:						
46	Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead						
	Item No 17.4 KSRRB M100-4.1-Earth						
	Earth	2.0	x1.28x10km				
	Baisc rate	2.0	25.60				
	Add Loading and unloading charges(Item No 17.1 KSRRB M100-		25.00				
	1)		68.00				
	Sub Total-1		93.60				
			93.60				
	Add 10% For area weightage (Mangalore City) Sub Total-2						
			102.96				
	Maintenance -1st year escalation of 4%	Data	4.12				
		Rate	107.08	Cum			
	Maintenance for 1st Year:						
47	Extra Lead for Disposing off unserviceable materials upto 10 Km b	eyond ini	tial Lead				
	Item No 17.4 KSRRB M100-4.1-Debris						
	Debris	2.0	x1.30x10Km				
	Baisc rate		26.00				
	Add Loading and unloading charges(Item No 17.1 KSRRB M100-						
	1)		68.00				
	Sub Total-1		94.00				
	Add 10% For area weightage (Mangalore City)		9.4				
	Sub Total-2		103.40				
	Maintenance -1st year escalation of 4%		4.14				
	•	Rate	107.54				
	Lighting Poles						
	Maintenance for 1st Year:						
	Dismantling of pole/ street light standard/ strut embedded in cemer	nt concret	tα				
48	foundation etc. as required	100110101	.0				
	(Delhi analysis of rates E & M 2016, item 12.42, pg 395))						
		I		1			
	IRacio Pata						
	Basic Rate		1,681				
	Maintenance -1st year escalation of 4%		67.23				
		Rate					
	Maintenance -1st year escalation of 4%	Rate	67.23				
	Maintenance -1st year escalation of 4% Maintenance for 1st Year:	Rate	67.23				
	Maintenance -1st year escalation of 4% Maintenance for 1st Year: Lighting Pole, 7 m		67.23 1747.8756	Nos.			
	Maintenance -1st year escalation of 4% Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised	d Octagor	67.23 1747.8756 nal pole with BSE	Nos. 10025 grade S			
	Maintenance -1st year escalation of 4% Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening	d Octagor g arrange	67.23 1747.8756 anal pole with BSE ement, icluding sui	Nos. 10025 grade S table boards,			
	Maintenance -1st year escalation of 4% Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind	d Octagor g arrange speed of	67.23 1747.8756 That pole with BSE ement, icluding suit 47 m/sec for 5 m	Nos. 10025 grade S table boards, pole in single			
49	Maintenance -1st year escalation of 4% Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening	d Octagor g arrange speed of	67.23 1747.8756 That pole with BSE ement, icluding suit 47 m/sec for 5 m	Nos. 10025 grade S table boards, pole in single			
49	Maintenance -1st year escalation of 4% Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG havi	d Octagor g arrange speed of ng dimen	67.23 1747.8756 That pole with BSE ement, icluding suit 47 m/sec for 5 m	Nos. 10025 grade S table boards, pole in single mm dia, top 70			
49	Maintenance -1st year escalation of 4% Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG havi	d Octagor g arrange speed of ng dimen lts along	67.23 1747.8756 nal pole with BSE ement, icluding suited 47 m/sec for 5 mesions bottom 155 with template and	Nos. 10025 grade S table boards, pole in single mm dia, top 70 the pole shall			
49	Maintenance -1st year escalation of 4% Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG havimm with 3 mm thick, suitable base plate and 4 nos. of long J both	d Octagor g arrange speed of ng dimen lts along	67.23 1747.8756 nal pole with BSE ement, icluding suited 47 m/sec for 5 mesions bottom 155 with template and	Nos. 10025 grade S table boards, pole in single mm dia, top 70 the pole shall			
49	Maintenance -1st year escalation of 4% Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG having mm with 3 mm thick, suitable base plate and 4 nos. of long J be be hot dip galvanized in single dipping with not less than 65 micron	d Octagor g arrange speed of ng dimen lts along	67.23 1747.8756 nal pole with BSE ement, icluding suited 47 m/sec for 5 mesions bottom 155 with template and	Nos. 10025 grade S table boards, pole in single mm dia, top 70 the pole shall			
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49	Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG havi mm with 3 mm thick, suitable base plate and 4 nos. of long J be be hot dip galvanized in single dipping with not less than 65 micron (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5) Basic rate	d Octagor g arrange speed of ng dimen lts along	67.23 1747.8756 The pole with BSE rement, icluding suited 47 m/sec for 5 mesions bottom 155 with template and STM - A123 and 1	Nos. 10025 grade S table boards, pole in single mm dia, top 70 the pole shall 153 etc.,			
49	Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG having mm with 3 mm thick, suitable base plate and 4 nos. of long J be be hot dip galvanized in single dipping with not less than 65 micron (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5)	d Octagor g arrange speed of ng dimen lts along as per A	67.23 1747.8756 The pole with BSE ement, icluding suited 47 m/sec for 5 mesions bottom 155 with template and STM - A123 and 1 12420 496.8	Nos. 10025 grade S table boards, pole in single mm dia, top 70 the pole shall 153 etc.,			
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49	Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG havimm with 3 mm thick, suitable base plate and 4 nos. of long J be hot dip galvanized in single dipping with not less than 65 micron (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5) Basic rate Maintenance for 1st Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanise 355 JO steel plate for shaft, IS 2062 for base plate with door opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG havi	d Octagor g arrange speed of ng dimen lts along as per A Rate	12420 496.8 12,916.80 anal pole with BSE ement, icluding suitable and significant suitable and significant suitable and significant suitable and significant suitable and sui	Nos. 10025 grade S table boards, pole in single mm dia, top 70 the pole shall 153 etc., Nos. 10025 grade S uitable boards, pole in single mm dia, top 70			
	Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG having mm with 3 mm thick, suitable base plate and 4 nos. of long J be be hot dip galvanized in single dipping with not less than 65 micron (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5) Basic rate Maintenance for 1st Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanise 355 JO steel plate for shaft, IS 2062 for base plate with door opening bakelite sheet and MCBs as per IS specifications suitable for wind	d Octagor g arrange speed of ng dimen lts along as per A Rate	12420 496.8 12,916.80 anal pole with BSE ement, icluding suitable and significant suitable and significant suitable and significant suitable and significant suitable and sui	Nos. 10025 grade S table boards, pole in single mm dia, top 70 the pole shall 153 etc., Nos. 10025 grade S uitable boards, pole in single mm dia, top 70			
	Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG havimm with 3 mm thick, suitable base plate and 4 nos. of long J be hot dip galvanized in single dipping with not less than 65 micron (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5) Basic rate Maintenance for 1st Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanise 355 JO steel plate for shaft, IS 2062 for base plate with door opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG havi	d Octagor g arrange speed of ng dimen olts along as per A Rate	12420 496.8 12,916.80 anal pole with BSE ement, icluding suitations bottom 155 with template and 12420 496.8 12,916.80 anal pole with BSE ement, icluding suitations bottom 130 h template and the	Nos. 10025 grade S table boards, pole in single mm dia, top 70 the pole shall 153 etc., Nos. 10025 grade S uitable boards, pole in single mm dia, top 70 e pole shall be			
	Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG havimm with 3 mm thick, suitable base plate and 4 nos. of long J bobe hot dip galvanized in single dipping with not less than 65 micron (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5) Basic rate Maintenance for 1st Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanise 355 JO steel plate for shaft, IS 2062 for base plate with door opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG havimm with 3 mm thick, suitable base plate and 4 nos. of long J bolts	d Octagor g arrange speed of ng dimen olts along as per A Rate	12420 496.8 12,916.80 anal pole with BSE ement, icluding suitations bottom 155 with template and 12420 496.8 12,916.80 anal pole with BSE ement, icluding suitations bottom 130 h template and the	Nos. 10025 grade S table boards, pole in single mm dia, top 70 the pole shall 153 etc., Nos. 10025 grade S uitable boards, pole in single mm dia, top 70 e pole shall be			
	Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG having mm with 3 mm thick, suitable base plate and 4 nos. of long J both be hot dip galvanized in single dipping with not less than 65 micron (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5) Basic rate Maintenance for 1st Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanise 355 JO steel plate for shaft, IS 2062 for base plate with door opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG having mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts hot dip galvanized in single dipping with not less than 65 micron as foundation) as per drawing appended	d Octagor g arrange speed of ng dimen olts along as per A Rate	12420 496.8 12,916.80 anal pole with BSE ement, icluding suitations bottom 155 with template and 12420 496.8 12,916.80 anal pole with BSE ement, icluding suitations bottom 130 h template and the	Nos. 10025 grade S table boards, pole in single mm dia, top 70 the pole shall 153 etc., Nos. 10025 grade S uitable boards, pole in single mm dia, top 70 e pole shall be			
	Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG havimm with 3 mm thick, suitable base plate and 4 nos. of long J both be hot dip galvanized in single dipping with not less than 65 micron (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5) Basic rate Maintenance for 1st Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanises 355 JO steel plate for shaft, IS 2062 for base plate with door opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG havimm with 3 mm thick, suitable base plate and 4 nos. of long J bolts hot dip galvanized in single dipping with not less than 65 micron as foundation) as per drawing appended (Ref Electrical SOR SI No.5.14.2)	d Octagor g arrange speed of ng dimen olts along as per A Rate	1747.8756 The pole with BSE rement, icluding suited and series bettom 155 with template and 187M - A123 and 1978. 12420 496.8 12,916.80 The pole with BSE rement, icluding suited and 1878. The pole with BSE rement, icluding suited and 1878. The pole with BSE rement, icluding suited and 1878. The pole with BSE rement, icluding suited and 1878. The pole with BSE rement, icluding suited and 1878. The pole with BSE rement, icluding suited and 1879. The pole with BSE rement, icluding suited and 1879. The pole with BSE rement	Nos. 10025 grade S table boards, pole in single mm dia, top 70 the pole shall 153 etc., Nos. 10025 grade S uitable boards, pole in single mm dia, top 70 e pole shall be etc., (excluding			
	Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG having mm with 3 mm thick, suitable base plate and 4 nos. of long J both be hot dip galvanized in single dipping with not less than 65 micron (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5) Basic rate Maintenance for 1st Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanise 355 JO steel plate for shaft, IS 2062 for base plate with door opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG having mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts hot dip galvanized in single dipping with not less than 65 micron as foundation) as per drawing appended (Ref Electrical SOR SI No.5.14.2) Basic rate	d Octagor g arrange speed of ng dimen olts along as per A Rate	1747.8756 The pole with BSE rement, icluding suited 47 m/sec for 5 mesions bottom 155 with template and STM - A123 and 1 12420 496.8 12,916.80 The pole with BSE rement, icluding suited and suited	Nos. 10025 grade S table boards, pole in single mm dia, top 70 the pole shall 153 etc., Nos. 10025 grade S uitable boards, pole in single mm dia, top 70 e pole shall be etc., (excluding			
	Maintenance for 1st Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 355 JO steel plate for shaft, IS 2062 for base plate with oor opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG havimm with 3 mm thick, suitable base plate and 4 nos. of long J both be hot dip galvanized in single dipping with not less than 65 micron (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5) Basic rate Maintenance for 1st Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanises 355 JO steel plate for shaft, IS 2062 for base plate with door opening bakelite sheet and MCBs as per IS specifications suitable for wind section and single joint welded as per IS 9595/IS 10178 AWG havimm with 3 mm thick, suitable base plate and 4 nos. of long J bolts hot dip galvanized in single dipping with not less than 65 micron as foundation) as per drawing appended (Ref Electrical SOR SI No.5.14.2)	d Octagor g arrange speed of ng dimen olts along as per A Rate	1747.8756 The pole with BSE rement, icluding suited and series bettom 155 with template and 187M - A123 and 1978. 12420 496.8 12,916.80 The pole with BSE rement, icluding suited and 1878. The pole with BSE rement, icluding suited and 1878. The pole with BSE rement, icluding suited and 1878. The pole with BSE rement, icluding suited and 1878. The pole with BSE rement, icluding suited and 1878. The pole with BSE rement, icluding suited and 1879. The pole with BSE rement, icluding suited and 1879. The pole with BSE rement	Nos. 10025 grade S table boards, pole in single mm dia, top 70 the pole shall 153 etc., Nos. 10025 grade S uitable boards, pole in single mm dia, top 70 e pole shall be etc., (excluding			

	Maintenance for 1st Year:			
	Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for	outdoor lu	ıminaries and mo	unted on
51	Octagonal pole using necessary bolts, nuts, etc. complete			
0.	Double Cross arm - 1500 mm			
	(Ref Electrical SOR SI No.5.18.5)			
	Basic rate		3540	
	Maintenance -1st year escalation of 4%		141.6	
	·	Rate	3,681.60	
	Maintenance for 1st Year:	•	·	1
	Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for	outdoor lu	ıminaries and mo	unted on
52	Octagonal pole using necessary bolts,nuts, etc. complete			
	Single Cross arm - 1500 mm			
	(Ref Electrical SOR SI No.5.18.2)			
	Basic rate		2400	
	Maintenance -1st year escalation of 4%		96	
		Rate	2,496	Nos.
	Maintenance for 1st Year:			
53	Painting of Existing street light pole after scrapping the old paint an		with suitable cold	our enamel
00	including coping/footing of the pole8mtr and above street light pole	е		
	(Ref Electrical SOR SI No.16.28.2)			
	Basic rate		620	
	Maintenance -1st year escalation of 4%	Data	24.8	
	Oudear Bay and Switch Coor	Rate	645	Nos.
	Oudoor Box and Switch Gear Maintenance for 1st Year:			
54	Supply, installation, testing and commissioning of outdoor junction	hav far m	ounting MCB/Cor	stactore with all
54	required accessories and componenets	ווו וטו אטע	ourning MCD/Cor	itaciois with an
	·			
	Price list (Considering 30% discount , 18% GST & 10% profit)		11782.92	
	·		11782.92 471.32	
	Price list (Considering 30% discount , 18% GST & 10% profit)	Rate		
	Price list (Considering 30% discount , 18% GST & 10% profit)	Rate	471.32	
	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year:		471.32 12,254	Nos.
	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board using	ng necess	471.32 12,254 sasary fixing mate	Nos.
55	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board usin curve, indicator ON/OFF, energy cross-3 with short circuit breaking	ng necess	471.32 12,254 sasary fixing mate	Nos.
55	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board using curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898	ng necess	471.32 12,254 sasary fixing mate	Nos.
55	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board using curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN	ng necess	471.32 12,254 sasary fixing mate	Nos.
55	Price list (Considering 30% discount, 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board usin curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5)	ng necess	471.32 12,254 sasary fixing mate of 10 KA complet	Nos.
55	Price list (Considering 30% discount, 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board using curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate	ng necess	471.32 12,254 sasary fixing mate of 10 KA complet	Nos. rial and 'C' type e wiring as
55	Price list (Considering 30% discount, 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board usin curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5)	ng necess capacity	471.32 12,254 sasary fixing mate of 10 KA completed	Nos. rial and 'C' type e wiring as
55	Price list (Considering 30% discount, 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board using curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate	ng necess	471.32 12,254 sasary fixing mate of 10 KA complet	Nos. rial and 'C' type e wiring as
55	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board usin curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4%	ng necess capacity	471.32 12,254 sasary fixing mate of 10 KA completed	Nos. rial and 'C' type e wiring as
55	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board usin curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4% LT Cable	ng necess capacity	471.32 12,254 sasary fixing mate of 10 KA completed	Nos. rial and 'C' type e wiring as
55	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board usin curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4% LT Cable Maintenance for 1st Year:	ng necess capacity	471.32 12,254 sasary fixing mate of 10 KA complete 1547 61.88 1,609	Nos. rial and 'C' type e wiring as Nos.
	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board usin curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4% LT Cable Maintenance for 1st Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC instends	ng necess capacity Rate ulated, ex	471.32 12,254 sasary fixing mate of 10 KA complet 1547 61.88 1,609 truded inner shea	Nos. rial and 'C' type e wiring as Nos.
55	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board usin curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4% LT Cable Maintenance for 1st Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC insigalvanised, steel strips (except 2C x 10 sq. mm wire armoured) as	Rate ulated, exper IS-39	471.32 12,254 sasary fixing mate of 10 KA completed for 10 KA completed for 1547 61.88 1,609 truded inner shear 75:1990 and extrematical for 1547	Nos. rial and 'C' type e wiring as Nos.
	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board using curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4% LT Cable Maintenance for 1st Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC insteady galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming	Rate ulated, exper IS-39	471.32 12,254 sasary fixing mate of 10 KA completed for 10 KA completed for 1547 61.88 1,609 truded inner shear 75:1990 and extrematical for 1547	Nos. rial and 'C' type e wiring as Nos.
	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board usin curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4% LT Cable Maintenance for 1st Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC insigalvanised, steel strips (except 2C x 10 sq. mm wire armoured) as	Rate ulated, exper IS-39	471.32 12,254 sasary fixing mate of 10 KA completed for 10 KA completed for 1547 61.88 1,609 truded inner shear 75:1990 and extrematical for 1547	Nos. rial and 'C' type e wiring as Nos.
	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board using curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4% LT Cable Maintenance for 1st Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC instending galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as sheathed armoured cable as per IS - 1554 Part 1:1988 & conformir 4 Core x16 Sq.mm PVC Aluminium Conductor,	Rate ulated, exper IS-39	471.32 12,254 sasary fixing mate of 10 KA completed for 10 KA completed for 1547 61.88 1,609 truded inner shear 75:1990 and extrematical for 1547	Nos. rial and 'C' type e wiring as Nos.
	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board usin curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4% LT Cable Maintenance for 1st Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC instend galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)	Rate ulated, exper IS-39	471.32 12,254 sasary fixing mate of 10 KA complet 1547 61.88 1,609 truded inner sheal 75:1990 and extra of GROUP B	Nos. rial and 'C' type e wiring as Nos. thed, uded PVC outer
	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board using curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4% LT Cable Maintenance for 1st Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC instigalization galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as sheathed armoured cable as per IS - 1554 Part 1:1988 & conformir 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4) Basic rate	Rate ulated, exper IS-39	471.32 12,254 Sasary fixing mate of 10 KA completed for 10 KA completed for 1547 61.88 1,609 truded inner sheat for 5:1990 and extra for GROUP B	Nos. rial and 'C' type e wiring as Nos. thed, uded PVC outer
	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board usin curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4% LT Cable Maintenance for 1st Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC instigulvanised, steel strips (except 2C x 10 sq. mm wire armoured) as sheathed armoured cable as per IS - 1554 Part 1:1988 & conformir 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year:	Rate ulated, exper IS-39 ng to GTP	471.32 12,254 sasary fixing mate of 10 KA completed for 10 KA completed for 1547 61.88 1,609 truded inner sheat of GROUP B	Nos. rial and 'C' type e wiring as Nos. thed, uded PVC outer
	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board usin curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4% LT Cable Maintenance for 1st Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC instigulvanised, steel strips (except 2C x 10 sq. mm wire armoured) as sheathed armoured cable as per IS - 1554 Part 1:1988 & conformir 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and drawing flexible multicore cable with electrolyte grade fl	Rate Rate Rate Rate Rate	471.32 12,254 sasary fixing mate of 10 KA completed for 10 KA comp	Nos. rial and 'C' type e wiring as Nos. thed, uded PVC outer
	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board using curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4% LT Cable Maintenance for 1st Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC insigalvanised, steel strips (except 2C x 10 sq. mm wire armoured) as sheathed armoured cable as per IS - 1554 Part 1:1988 & conformir 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and drawing flexible multicore cable with electrolyte grade flexonforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insigalvanised.	Rate ulated, exper IS-39 ng to GTP Rate exible copulation ar	truded inner shear 75:1990 and extra 4.68 121.68 pper with low conducted sheathed suital	Nos. rial and 'C' type e wiring as Nos. thed, uded PVC outer
56	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board using curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4% LT Cable Maintenance for 1st Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC instigalvanised, steel strips (except 2C x 10 sq. mm wire armoured) as sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and drawing flexible multicore cable with electrolyte grade flexing on the conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC instiguted by the conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC instituted by the conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC instituted by the conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC instituted by the conforming to GTP of the conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC instituted by the conforming to GTP of the conforming to G	Rate ulated, exper IS-39 ng to GTP Rate exible copulation ar	truded inner shear 75:1990 and extra 4.68 121.68 pper with low conducted sheathed suital	Nos. rial and 'C' type e wiring as Nos. thed, uded PVC outer
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56	Price list (Considering 30% discount , 18% GST & 10% profit) Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board using curve, indicator ON/OFF, energy cross-3 with short circuit breaking required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) Basic rate Maintenance -1st year escalation of 4% LT Cable Maintenance for 1st Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC instigulvanised, steel strips (except 2C x 10 sq. mm wire armoured) as sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and drawing flexible multicore cable with electrolyte grade flexible up to 1100 V as per IS-694:1990 and conforming to GTP of 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	Rate ulated, exper IS-39 ng to GTP Rate exible copulation ar	truded inner shear 75:1990 and extro of GROUP B 117 4.68 121.68 121.68 121.68	Nos. Prial and 'C' type e wiring as Nos. thed, uded PVC outer decorate of the for working as

	Maintenance for 1st Year:					
58	Supplying tinned copper lugs and crimping and wiring to termina 16 Sq.mm PVC Aluminium Conductor (Ref Floatrical SOR SING 7.24.6)	al point for wire o	of following siz	es		
	(Ref Electrical SOR SI No.7.21,7.21.6) Basic rate		11 21			
	Maintenance -1st year escalation of 4%		11.31 0.45			
	Ividifice -15t year escalation of 476	Rate	11.76			
		Rate	11.70	1100.		
59	Maintenance for 1st Year: Supplying tinned copper lugs and crimping and wiring to termina 2.5 sq. mm copper conductor (Ref Electrical SOR SI No.7.21.2)	al point for wire c	of following siz	es		
	Basic rate		3.12			
	Maintenance -1st year escalation of 4%		0.12			
		Rate	3.24	Nos.		
60	Maintenance for 1st Year: Chemical Earthing for grounding,conduits,IC cut outs and othere/SS rod with earth enhancing backfill compound which is non copermissible,limits,superior,fault,conductive capacity,non toxic,we ohmic value less than one ohm (Ref Electrical SOR Pg.No.64,SI No.7.23.6)	orrosive ,therma	lly,conductive	potential,to		
	Basic rate	<u> </u>	5500	1		
	Maintenance -1st year escalation of 4%		220			
	Wallterlance - 13t year escalation of 470	Rate	5720			
		Nato	3720	TXIC		
	necessasary suitable size clamps, nails, guttas/spacers etc-8 S\ (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4%		19.5 0.78			
		Rate	20.28	Rmt		
62	Maintenance for 1st Year: Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer					
	Sr.No.27		140.00			
	Maintenance -1st year escalation of 4%		5.6			
		Rate	145.60	Cum		
63	Maintenance for 1st Year: KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)					
	Basic rate		204	<u> </u>		
	Maintenance -1st year escalation of 4%		8.16			
	Add 10% For area weightage		21.22			
		Rate	233.38	Cum		
64	Maintenance for 1st Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge fa M300-1. Spreading of sludge farm yard manure or/ and good ea yard manure or/and good earth to be paid for separately) comple Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77)	irth in required th	nickness (cost	of sludge, farn		
	Basic rate		103			
	Page 156		100	I.		

	Maintenance -1st year escalation of 4%		4.12	1				
	Add 10% For area wightage		10.71					
	Add 10% For area wightage	Rate	117.83					
	Maintenance for 1st Year:	Rate	117.03	Cuiii				
65	Mixing earth and sludge or manure in the required proportion speci (Non SOR item)	fied or di	rected by the Offic	er-in-charge				
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28		23.91					
	Maintenance -1st year escalation of 4%		0.96					
		Rate	24.87	Cum				
66	Maintenance for 1st Year: Maintenance of lawns or Turfing of slopes (rough grassing) for a complete including cost of all materials, scaffolding HOM of machi including implementation of Environmental and Social Safegua specifications and directions of Engineer-in-charge.	neries wi	th all lead and lifts	s, labour charge				
	Basic rate		103					
	Maintenance -1st year escalation of 4%		4.12					
	Add 10% For area wightage		10.71					
	Nad 10761 of area wightage	Rate	117.83					
		110.00						
	TURF							
67	Maintenance for 1st Year: ZOYSIA JAPONICA (MAT) (Non SOR Item)							
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.32		156.80					
	Maintenance -1st year escalation of 4%		6.27					
		Rate	163.07	Sqm				
	IRRIGATION							
	Maintenance for 1st Year:							
68	Waintenance for 1st Year: Watering with tanker to landscape area and plants for one year							
	Water Tanker =61 Rs/ Hour.One Year Cost=92 days x 3 hrs/day x							
	61rs/hr (365days-90 days of mansoon=275 days/3 days=92		16836					
	days,consider watering at every 3 days)		10030					
	Mazdoor = 0.5 days x 258.88		11908.48					
	Add 10% For area wightage		11908.48					
	Maintenance -1st year escalation of 4%		1149.78					
	Ivialitie latice - 1st year escalation of 478	Rate	31085.11					
		Nate	31003.11	Sqiii				
69	Maintenance for 1st Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees, sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item)							
	(Non SOR Item)		Г	T				
	(Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer		560.00					
	(Non SOR Item)		560.00					

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City
6.1 Abstract for Maintenance of Road and Other Work for DPR 5-2nd Year

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
	Civil Works				
1.00	Maintenance for 2nd Year: Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA attached)	Sqm	14.00	80.97	1134
2.00	Maintenance for 2nd Year: KSRRB M200.Dismantling of cement concrete pavement by mechanical means using pueumatic tools,breaking to pieces not exceeding 0.02 cum in volume and stock pilling at designated locations and disposal of dismantled material stacking serviceble and unserviceable materials separately complete as per specifications.MORTH specification No.202.(Including transporting charges,loading and unloading for lead 5km-Extra) (Page No 138,SI No : 18.47)	Cum	18.38	1068.01	19,630
3.00	Maintenance for 2nd Year: KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M200-26. Dismantling Kerb stone by Manual means and disposal of dismantled materials with all lifts and complete as per specifications.MORTH Specification No.202. (Page No.139,S.I.No.18.49)	Rmt	20.00	14.26	285
4.00	Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202 (KPWD SOR 18-19,18.20,Page No.137)	Cum	20.00	463.32	9,266
5.00	Maintenance for 2nd Year: KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonary, cement concrete, woodwork, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar (Page No 137,SI No: 18.23)	Cum	3.45	416.99	1,439
6.00	Maintenance for 2nd Year: KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 1.00Km and complete as per specifications. MORTH specification No.301(Including transporting charges, loading and unloading for lead 5km) (Page No 143,SI No : 19.14)	Cum	250.00	48.71	12,178
7.00	Maintenance for 2nd Year: KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(KPWD 16-17,SI No.2.11,Pg. No.6)	Cum	75.00	142.56	10,692
8.00	Maintenance for 2nd Year: KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3.(KPWD 18-19,SI No.19.64,Pg. No.149)	C	500.00	7.13	3,565

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
9.00	Maintenance for 2nd Year: KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2018-19)		7.50	7009.20	52,569
10.00	Maintenance for 2nd Year: KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material	Cum	37.50	2573.21	96,495
11.00	Maintenance for 2nd Year: KSRB 4.2.1: Providing and laying in position reiforcement cement concrete of design Mix M25 with OPC cement @340Kgs,with 20mm and down size graded granite metal coarse aggregate @ 0.47 cum with super plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 at machine mixed,concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls,return walls,walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of machinery,curing,complete but excluding cost of reinforcement as per specifications. (Page No 13,SI No: 4.10)	Cum	48.00	7363.22	3,53,435
12.00	Maintenance for 2nd Year: KSRB 4.6.1 Providing and removing centering, shuttering, strutting, propping etc.,and removal of formwork for foundations, footings, bases of columns for mass concrete including cost of all materials,labour complete as per specifications. Specification No. KSB 4.6.2 (Page No 15,SI No : 4.28)		360.00	312.44	1,12,478
13.00	Maintenance for 2nd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work including straighting, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to thr adjoing members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinary complete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500	MT	3.84	84089.02	3,22,902
14.00	Maintenance for 2nd Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of sub-grade with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory rollercompaction by vibratory roller to 97% of proctors density) MORTH Specification No. 305	Cum	61.25	665.76	40,778

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
15.00	Maintenance for 2nd Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications.Morth specification No.601 (Page No 176,SI No : 22.1)	Cum	12.25	4809.02	58,910
16.00	Maintenance for 2nd Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,Manually laid and compacting with palte compactor,finishing and curing complete as per specifications.Morth specification No.601 (RA attached)	Cum	20.00	4371.84	87,437
17.00	Maintenance for 2nd Year: KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars at 4.5m intervals, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per sprcifications MORTH specification No.602.do with M40 (420Kg per cum Cement,C.A,0.67 cum F.A.044Cum (Page No 176,SI No : 22.2.2)	Cum	28.18	6848.82	1,93,000
18.00	Maintenance for 2nd Year: Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealant manufacturer recommends and pouring the sealant all complete including material, manpower (Non SOR Item)	Rmt	650.00	124.20	80,730
19.00	Maintenance for 2nd Year: KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints longitudinal joints and expansion joints in concrete pavement using epoxy mortar concrete complete as per specifications.Morth specification No.3005.1 (Page No 257,SI No : 35.8)		650.00	393.23	2,55,600

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
20.00	Maintenance for 2nd Year: Providing and laying at or near ground level factory made kerb stone of M-20 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).		0.10	21038.08	2,104
21.00	Maintenance for 2nd Year: Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of CC 1:2:4 and Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3)	Cum	2.79	18392.15	51,314
22.00	Maintenance for 2nd Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,made out of CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3)		1.18	18392.15	21,703
23.00	Maintenance for 2nd Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-incharge.	Rmt	100.00	28.51	2,851
24.00	Maintenance for 2nd Year: KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No 182,SI No : 24.1)		82.50	95.04	7,841
25.00	Maintenance for 2nd Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting.	Nos.	5.00	9900.72	49,504
26.00	Maintenance for 2nd Year: P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached)	Nos.	5.00	5698.70	28,493
27.00	Maintenance for 2nd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm at level footpath. (Rate analysis attached)	Nos.	5.00	6280.77	31,404
28.00	Maintenance for 2nd Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes to the required alignments including specials and grade as indicated in drawings/design and hydraulically testing of the pipe line. The rate shall include all jointing materials, testing apparatus and water for testi g etc as directed by the Engineer in charge (page No.41, Item No.7, KUWSDB SOR 2016-17)	Rmt	20.00	325.46	6,509
29.00	Maintenance for 2nd Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100mm dia, of self cleaning design with screwed down or hinged grating with or without vent arm including cutting and making good the walls and floors, cost of materials, labour, testing, complete as per specifications Specification No. KBS 11.1.10. (PWD SR 2018-19,P.No.86, SI.No.12.89)		20.00	986.04	19,721

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
30.00	Maintenance for 2nd Year: KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings complete as per specifications. Case-III: Triple row for three utility services. (PWD SR 2018-19,SI.No.24.36)	Rmt	20.00	5966.14	1,19,323
31.00	Maintenance for 2nd Year: Providing and laying Dia 200mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5,Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7.The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years. (Market Rate)	Rmt	150.00	1681.43	2,52,215
32.00	Maintenance for 2nd Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5,Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7.The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years.(Market Rate)	Rmt	100.00	1154.41	1,15,441
	Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 200 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20.00	1183.54	23,671
	Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20.00	2297.46	45,949
35.00	Maintenance for 2nd Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lubricant inner layer for ICT fibre cables comforming to ASTMF 2160 and /or equivalent indian standard and conveying to work site including loading and unloading at both destination and rolling,lowering into trenches,laying true to line and jointing of pipe etc.Complete. (Market Rate)	Rmt	40.00	649.40	25,976
36.00	Maintenance for 2nd Year: Supplying and Application charges required for stamping the freshly laid new concrete (Concrete rate is not included in this item) including finishing and colouring the top surface accurately to the required level, shape and size using approved colour shade and staping it using approved stamp pattern and antiquitting it on top with approved colour. Sealing entire area with concrete sealer.	Sqm	200.00	741.31	1,48,262
37.00	Maintenance for 2nd Year: Providing and laying heavy duty cobble stones 75mm thick, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 30mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. (Page No 101,SI No: 14.7)	Sqm	75.00	1323.43	99,257

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
38.00	Maintenance for 2nd Year: KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No. 507 -using 100/120 TPH capacity H.M.P. with sensor paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 16-17,S.I.No.21.17.1,Page No.163)		6.00	9312.73	55,876
39.00	Maintenance for 2nd Year: KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-40 Bitumen		1.60	10408.07	16,653
	Maintenance for 2nd Year: KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications		50.00	343.33	17,167
41.00	Maintenance for 2nd Year: Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface:Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area,thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be level,uniform and free from streak and holes complete as per specifications.MORTH specification No.803 (Page No 192,SI No : 24.57)	Sqm	600.00	509.65	3,05,790
	Maintenance for 1st Year: Operation and Maintenance for eToilets Stainless Steel Public Model as specified in Road and Other works BOQ Item No.45.	Nos	3.00	66096.00	1,98,288
43.00	Maintenance for 2nd Year: Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	2.00	4860.00	9,720
44.00	Maintenance for 2nd Year: Providing and fixing of railing as detail design in MS HOLLOW SECTION and bars (shop drawing to be approved),with vertical support of 0.9m @2.2mc/c , all complete to the satisfaction of the Landscape architect.(Non SOR Item)	MT	0.10	108000.00	10,800
45.00	Maintenance for 2nd Year: Excavation and removal of silt and silt mixed with sand in slussy condition from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with lead upto 50 m and all lifts. For Desilting of drains and grit chambers including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-incharge.	Cum	1015.00	193.32	1,96,220
46.00	Maintenance for 2nd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Earth	Cum	200.00	111.20	22,240
47.00	Maintenance for 2nd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Debris	Cum	70.00	111.67	7,817
	Electrical Works				

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
	Maintenance for 2nd Year: Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required (Delhi analysis of rates E & M 2016, item 12.42, pg 395))	Nos.	1.00	1815.10	1,815
49.00	Maintenance for 2nd Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with oor opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 m pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 155 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5)	Nos.	1.00	13413.60	13,414
50.00	Maintenance for 2nd Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 4 pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No.5.14.2)	Nos.	1.00	7989.84	7,990
54.00	Maintenance for 2nd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5)	Nos.	1.00	3823.20	3,823
F2 00	Maintenance for 2nd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2)	Nos.	1.00	2592.00	2,592
	Maintenance for 2nd Year: Painting of Existing street light pole after scrapping the old paint and painted with suitable colour enamel including coping/footing of the pole8mtr and above street light pole (Ref Electrical SOR SI No.16.28.3)	Nos.	242.00	669.60	162,043
54.00	Maintenance for 2nd Year: Supply, installation, testing and commissioning of outdoor junction box for mounting MCB/Contactors with all required accessories and componenets	Nos.	1.00	12725.55	12,726
55.00	Maintenance for 2nd Year: Supply and fixing of miniature circuit breaker on exisiting board using necessasary fixing material and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10 KA complete wiring as required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5) LT Cable	Nos.	1.00	1670.76	1,671
56.00	Maintenance for 2nd Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)	m	60.00	126.36	7,582

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
57.00	Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible copper with low conductor conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insulation and sheathed suitable for working voltage up to 1100 V as per IS-694:1990 and conforming to GTP of Group A. 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	m	10.00	88.13	881
58.00	Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6)	Nos	10.00	12.21	122
59.00	Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 2.5 sq. mm copper conductor (Ref Electrical SOR SI No.7.21.2)	Nos	8.00	3.37	27
60.00	Earthing system Maintenance for 2nd Year: Chemical Earthing for grounding,conduits,IC cut outs and otherequipmentson the mter boardby using copper /SS rod with earth enhancing backfill compound which is non corrosive ,thermally,conductive,potential,to permissible,limits,superior,fault,conductive capacity,non toxic,weather resistance and capable of achieving ohmic value less than one ohm (Ref Electrical SOR Pg.No.64,SI No.7.23.6)	Kit	1.00	5940.00	5,940
61.00	Maintenance for 2nd Year: Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3)	Rmt	50.00	21.06	1,053
	Landcaping Works				
62.00	Maintenance for 2nd Year: Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item)		1.50	151.20	227
63.00	Maintenance for 2nd Year: KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)	Cum	0.75	242.35	182
64.00	Maintenance for 2nd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77)	Cum	2.00	122.36	245
65.00	Maintenance for 2nd Year: Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)	Cum	2.00	25.82	52
66.00	Soil preparation of Lawn Maintenance for 2nd Year: Maintenance of lawns or Turfing of slopes (rough grassing) for a period of one year including watering etc complete including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-in-charge.	Sqm	382.19	122.36	46,765
67.00	TURF Maintenance for 2nd Year: ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	3.00	169.34	508
	IRRIGATION Page 165				

Page 165

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
\sim	Maintenance for 2nd Year: Watering with tanker to landscape area and plants for one year	Year	1.00	32234.89	32,235
69.00	Maintenance for 2nd Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees , sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item)	Sqm	3.00	604.80	1,814
				Total	39,08,339

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 6.2 M.S. For Maintenance of Road and Other Work for DPR 5-2nd Year

	6.2 M.S. For Maintenance of Roa	a ana o	tilei Woll	K TOIDI IK S	Ziid i'da		
Sr.No.	Specification	Unit	No.	L	В	D	Qty.
	Civil Works						
1.00	Maintenance for 2nd Year: Taking out existing CC interlocking paver blocks from footpath/central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA	Sqm	1	7	2		14.00
2.00	Maintenance for 2nd Year: KSRRB M200.Dismantling of cement concrete pavement by mechanical means using pueumatic tools,breaking to pieces not exceeding 0.02 cum in volume and stock pilling at designated locations and disposal of dismantled material stacking serviceble and unserviceable materials separately complete as per specifications.MORTH specification No.202.(Including transporting charges,loading and unloading for lead 5km-Extra) (Page No 138,SI No : 18.47)	Cum	5	3.5	3.5	0.3	18.38
3.00	Maintenance for 2nd Year: KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M200-26. Dismantling Kerb stone by Manual means and disposal of dismantled materials with all lifts and complete as per specifications.MORTH Specification No.202. (Page No.139,S.I.No.18.49)	Rmt	1	20			20.00
4.00	Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202 (KPWD SOR 16-17,18.20,Page No.137)	Cum	1	40	1	0.5	20.00
5.00	Maintenance for 2nd Year: KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonary, cement concrete, woodwork, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar (Page No 137,SI No: 18.23)	Cum	10	3	0.5	0.23	3.45
6.00	Maintenance for 2nd Year: KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 1.00Km and complete as per specifications. MORTH specification No.301(Including transporting charges, loading and unloading for lead 5km) (Page No 143,SI No: 19.14)	Cum	1.00	100	5	0.5	250.00
7.00	Maintenance for 2nd Year: KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(KPWD 16-17,SI No.2.11,Pg. No.6)	Cum	1.00	30	5	0.5	75.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
8.00	Maintenance for 2nd Year: KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3.(KPWD 16-17,SI No.19.64,Pg. No.149)	Sqm	1.00	100		5	500.00
9.00	Maintenance for 2nd Year: KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	1.00	15	5	0.1	7.50
10.00	Maintenance for 2nd Year: KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material	Cum	1.00	50	5	0.15	37.50
11.00	Maintenance for 2nd Year: KSRB 4.2.1: Providing and laying in position reiforcement cement concrete of design Mix M25 with OPC cement @340Kgs,with 20mm and down size graded granite metal coarse aggregate @ 0.47 cum with super plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 at machine mixed,concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls,return walls,walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of machinery,curing,complete but excluding cost of reinforcement as per specifications. (Page No 13,SI No : 4.10)	Cum	1.00	200	0.2	1.2	48.00
12.00	Maintenance for 2nd Year: KSRB 4.6.1 Providing and removing centering, shuttering, strutting, propping etc.,and removal of formwork for foundations, footings, bases of columns for mass concrete including cost of all materials,labour complete as per specifications. Specification No. KSB 4.6.2 (Page No 15,SI No : 4.28)	Sqm	2.00	200		0.9	360.00
13.00	Maintenance for 2nd Year: KSRB 4.9.2: Providing T.M.T steel reinforcement for RCC work including straighting, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to thr adjoing members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinary complete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500	MT	1.00	3.84			3.84
14.00	Maintenance for 2nd Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of sub-grade with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory roller to 97% of proctors density) MORTH Specification	Cum	10.00	3.5	3.5	0.5	61.25

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
15.00	Maintenance for 2nd Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications.Morth specification No.601 (Page No 176,SI No: 22.1)	Cum	10.00	3.5	3.5	0.1	12.25
16.00	Maintenance for 2nd Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,Manually laid and compacting with palte compactor,finishing and curing complete as per specifications.Morth specification No.601 (RA attached)	Cum	1.00	100	2	0.1	20.00
17.00	Maintenance for 2nd Year: KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form or paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars at 4.5m intervals, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per sprcifications MORTH specification No.602.do with M40 (420Kg per cum Cement,C.A,0.67 cum F.A.044Cum (Page No 176,SI No : 22.2.2)	Cum	10.00	3.5	3.5	0.23	28.18
18.00	Maintenance for 2nd Year: Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealant manufacturer recommends and pouring the sealant all complete including material, manpower (Non SOR Item)	Rmt	1.00	650			650.00
19.00	Maintenance for 2nd Year: KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints longitudinal joints and expansion joints in concrete pavement using epoxy mortar concrete complete as per specifications.Morth specification No.3005.1 (Page No 257,SI No : 35.8)	Rmt	1.00	650			650.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
20.00	Maintenance for 2nd Year: Providing and laying at or near ground level factory made kerb stone of M-20 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge). (RA Attached)	Cum	1	1	0.103		0.10
21.00	Maintenance for 2nd Year: Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of CC 1:2:4 and Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete	Cum	1	100	0.0279		2.79
22.00	Maintenance for 2nd Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,made out of CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation	Cum	1	100	0.0118		1.18
23.00	Maintenance for 2nd Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-in-charge.	Rmt	100				100.00
24.00	Maintenance for 2nd Year: KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No 182,SI No : 24.1)	Sqm	1	500	0.165		82.50
25.00	Maintenance for 2nd Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting.	Nos.	5.00				5.00
26.00	Maintenance for 2nd Year: P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached)	Nos.	5.00				5.00
27.00	Maintenance for 2nd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm at level footpath. (Rate analysis attached)	Nos.	5.00				5.00
28.00	Maintenance for 2nd Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes to the required alignments including specials and grade as indicated in drawings/design and hydraulically testing of the pipe line. The rate shall include all jointing materials, testing apparatus and water for testi g etc as directed by the Engineer in charge (page No.41, Item No.7, KUWSDB SOR 2016-17)	Rmt	20.00	1.00			20.00
29.00	Maintenance for 2nd Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100mm dia, of self cleaning design with screwed down or hinged grating with or without vent arm including cutting and making good the walls and floors, cost of materials, labour, testing, complete as per specifications Specification No. KBS 11.1.10. (PWD SR 2015-16,P.No.86, SI.No.12.89)	Nos.	20.00				20.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
30.00	Maintenance for 2nd Year: KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings complete as per specifications.	Rmt	1	20.00			20.00
31.00	Maintenance for 2nd Year: Providing and laying Dia 200mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5, Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7. The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years.	Rmt	1	150			150.00
32.00	Maintenance for 2nd Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5,Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7.The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years.(Market Rate)	Rmt	1	100			100.00
33.00	Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 200 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20				20.00
34.00	Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20				20.00
35.00	Maintenance for 2nd Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lubricant inner layer for ICT fibre cables comforming to ASTMF 2160 and /or equivalent indian standard and conveying to work site including loading and unloading at both destination and rolling,lowering into trenches,laying true to line and jointing of pipe etc.Complete.	Rmt	1	40			40.00
36.00	Maintenance for 2nd Year: Supplying and Application charges required for stamping the freshly laid new concrete (Concrete rate is not included in this item) including finishing and colouring the top surface accurately to the required level, shape and size using approved colour shade and staping it using approved stamp pattern and antiquitting it on top with approved colour. Sealing entire area with concrete sealer.	Sqm	1	100	2		200.00
37.00	Maintenance for 2nd Year: Providing and laying heavy duty cobble stones 75mm thick, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 30mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications.	Sqm	1.00	50	1.5		75.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
38.00	Maintenance for 2nd Year: KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No. 507 -using 100/120 TPH capacity H.M.P. with sensor paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30	Cum	2.00	2.5	8	0.15	6.00
39.00	Maintenance for 2nd Year: KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30	Cum	2.00	2.5	8	0.04	1.60
40.00	Maintenance for 2nd Year: KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973	Nos.	50.00				50.00
41.00	Maintenance for 2nd Year: Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface:Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area,thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be level,uniform and free from streak and holes complete as per specifications.MORTH specification No.803 (Page No 192,SI No : 24.57)	Sqm	1.00	4000	0.15		600.00
42.00	Maintenance for 2nd Year: Operation and Maintenance for eToilets Stainless Steel Public Model as specified in Road and Other works BOQ Item No.45.	Nos	3.00				3.00
43.00	Maintenance for 2nd Year: Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	2.00				2.00
44.00	Maintenance for 2nd Year: Providing and fixing of railing as detail design in MS HOLLOW SECTION and bars (shop drawing to be approved), with vertical support of 0.9m @2.2mc/c, all complete to the satisfaction of the Landscape architect. (Non SOR Item)	MT	1.00	0.1			0.10
45.00	Maintenance for 2nd Year: Excavation and removal of silt and silt mixed with sand in slussy condition from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with lead upto 50 m and all lifts. For Desilting of drains and grit chambers including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-	Cum	2.00	7250	0.7	0.1	1015.00
46.00	Maintenance for 2nd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Earth	Cum	1.00	200			200.00
47.00	Maintenance for 2nd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Debris	Cum	1.00	70			70.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
	Electrical Works						
48.00	Maintenance for 2nd Year: Dismantling, removal, transportation to client's storage place existing lighting poles (Non SOR Item)	Nos.	1				1.00
49.00	Maintenance for 2nd Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with oor opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 m pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 155 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5 14 5)	Nos.	1				1.00
50.00	Maintenance for 2nd Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 4 pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No.5.14.2)	Nos.	1				1.00
51.00	Maintenance for 2nd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5)	Nos.	1				1.00
52.00	Maintenance for 2nd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2)	Nos.	1				1.00
53.00	Maintenance for 2nd Year: Painting of Existing street light pole after scrapping the old paint and painted with suitable colour enamel including coping/footing of the pole8mtr and above street light pole (Ref Electrical SOR SI No.16.28.3)	Nos.	242.00				242.00
54.00	Maintenance for 2nd Year: Supply, installation, testing and commissioning of outdoor junction box for mounting MCB/Contactors with all required accessories and componenets	Nos.	1.00				1.00
55.00	Maintenance for 2nd Year: Supply and fixing of miniature circuit breaker on exisiting board using necessasary fixing material and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10 KA complete wiring as required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5)	Nos.	1.00				1.00
	LT Cable						

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
56.00	Maintenance for 2nd Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)	m	1	60.00			60.00
57.00	Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible copper with low conductor conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insulation and sheathed suitable for working voltage up to 1100 V as per IS-694:1990 and conforming to GTP of Group A. 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	m	1	10.00			10.00
58.00	Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6)	Nos	10				10.00
59.00	Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 2.5 sq. mm copper conductor (Ref Electrical SOR SI No.7.21.2)	Nos	8				8.00
60.00	Earthing system Maintenance for 2nd Year: Chemical Earthing for grounding,conduits,IC cut outs and otherequipmentson the mter boardby using copper /SS rod with earth enhancing backfill compound which is non corrosive ,thermally,conductive,potential,to permissible,limits,superior,fault,conductive capacity,non toxic,weather resistance and capable of achieving ohmic value less than one ohm (Ref Electrical SOR Pg.No.64,SI No.7.23.6)	Kit	1				1.00
61.00	Maintenance for 2nd Year: Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3)	Rmt	1	50			50.00
	Landcaping Works						
62.00	SOIL MIXES and Ground Preparation Maintenance for 2nd Year: Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item)	Cum	1	20	0.5	0.15	1.50
63.00	Maintenance for 2nd Year: KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)	Cum	1	15	0.5	0.1	0.75
64.00	Maintenance for 2nd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307	Cum	1	40	0.5	0.1	2.00
65.00	Maintenance for 2nd Year: Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)	Cum	1	40	0.5	0.1	2.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
	Soil preparation of Lawn						
66.00	Maintenance for 2nd Year: Maintenance of lawns or Turfing of slopes (rough grassing) for a period of one year including watering etc complete including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-		1.00	382.19			382.19
	TURF						
67.00	Maintenance for 2nd Year: ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	1	5	0.6		3.00
	IRRIGATION						
68.00	Maintenance for 2nd Year: Watering with tanker to landscape area and plants for one year	Year	1.00				1.00
69.00	Maintenance for 2nd Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees, sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be	Sqm	1	5	0.6		3.00

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 6.3 R.A. For Maintenance of 2nd Year - DPR 5

	Maintanance for 2nd Voor						
	Maintenance for 2nd Year: Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish						
1	etc., disposal of unserviceable material to the dumping ground, for which payment shall be made						
	separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-						
	Charge.(RA attached)						
	Basic rate		68.16				
	Maintenance- 2nd year escalation of 8%		5.45				
	Add 10% For area weightage (Mangalore City)		7.36				
		Rate	80.97	Sqm			
				_			
	Maintenance for 2nd Year:	•					
	KSRRB M200.Dismantling of cement concrete pavement by mechanical means using pueumatic						
	tools, breaking to pieces not exceeding 0.02 cum in volume and stock pilling at designated locations and						
2							
2	disposal of dismantled material stacking serviceble and unserviceable materials separately complete as per specifications.MORTH specification No.202.(Including transporting charges,loading and unloading for						
	lead 5km-Extra)						
	(Page No 138,SI No : 18.47)						
	Basic rate		899	1			
				<u> </u>			
	Maintenance- 2nd year escalation of 8%		71.92				
	Add 10% For area weightage (Mangalore City)	Data	97.09				
		Rate	1068.01	Cum			
	Maintenance for 2nd Year:						
	KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M200-26. Dismantling Kerb stone by						
3	Manual means and disposal of dismantled materials with all lifts and complete as per						
	specifications.MORTH Specification No.202.						
	(Page No.139,S.I.No.18.49)						
	Basic rate		12.00				
	Maintenance- 2nd year escalation of 8%		0.96				
	Add 10% For area weightage (Mangalore City)		1.3				
		Rate	14.26	Rmt			
	Maintenance for 2nd Year:						
	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other						
4	structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding						
4	wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the						
	serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement						
	Concrete Grade M-15 &M-20. MORTH Specification No. 202 (KPW	/D SOR [*]	16-17,18.20,Pa	ge No.137)			
	Basic rate		390				
	Maintenance- 2nd year escalation of 8%		31.2				
	Add 10% For area weightage (Mangalore City)		42.12				
		Rate	463.32	Cum			
-							
	Maintenance for 2nd Year:						
	KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other						
	structure comprising of masonary, cement concrete, woodwork, steel work, including T&P and scaffolding						
5	wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the						
-	serviceable material with all lifts complete as per specifications.						
	i)Dismantaling Brick/Tile work B.In Cement mortar						
	(Page No 137,SI No : 18.23)						
	Basic rate		351				
	Maintenance- 2nd year escalation of 8%		28.08				
	Add 10% For area weightage		37.91	<u> </u>			
		Rate	416.99				
			710.00	Ju			
				1			

	Maintenance for 2nd Year:	with hyd	raulia avaguata	or of 0.0 buokat			
	KSRRB M300-14. Excavation for roadwork in all types of soil capacity including cutting and loading in tippers,trimming botto	m and s	side slopes,in a	accordance with			
6	requirements of lines and grades and cross sections, and transp	orting dis	sposal location	up to a lead of			
	1.00Km and complete as per specifications.						
	MORTH specification No.301(Including transporting charges, loading and unloading for lead 5km)						
	(Page No 143,SI No : 19.14)						
	Basic rate		41				
	Maintenance- 2nd year escalation of 8%		3.28				
	Add 10% For area weightage (Mangalore City)		4.43				
		Rate	48.71	Cum			
	Maintananae far 2nd Vaar						
	Maintenance for 2nd Year: KSRB 2-4: Refilling available earth around pipe lines, cables in	n lavers r	not exceeding	20cms in denth			
7							
′	compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(KPWD 16-17,SI No.2.11,Pg. No.6)						
	Basic rate		120	T			
	Maintenance- 2nd year escalation of 8%		9.6				
	Add 10% For area weightage (Mangalore City)		12.96				
	Add 10701 of area weightage (Mangalore Oity)	Rate	142.56				
		11000	1.12.00				
	Maintenance for 2nd Year:		ı	l			
	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to						
8	10 tonnes power roller including filling in depression occuring during rolling including cost of all labour,						
	HOM of machinery complete as per specifications. MORTH / Chapter 3.(KPWD 16-17,SI No.19.64,Pg.						
	No.149)						
	Basic rate		6				
	Maintenance- 2nd year escalation of 8%		0.48				
	Add 10% For area weightage (Mangalore City)		0.65				
		Rate	7.13	Sqm			
	Maintenance for 2nd Year:						
	KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 Grade with cement @						
	240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine						
9	aggregtes @ 0.459cum, machine mixed, concrete laid in layer						
	compacted, in foundation, plinth and cills, ncluding cost of all mat-		-				
	complete as per specifications. Specification No. KBS 4.1, 4.2. (P.I	No.12, I.N	No. 4.6 of PWD	SR 2015-16)			
	Basic Rate		5900				
	Maintenance- 2nd year escalation of 8%		472				
	Add 10% For area weightage (Mangalore City)		637.2				
		Rate	7009.20	Cum			
	Maintenance for 2nd Year:	<u> </u>		<u> </u>			
		close ar	aded crushed s	tone aggregates			
	KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to						
10	work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate						
	compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close						
	graded granular sub-base material as per 400-1 For Grading- II Material						
	Basic Rate		2166				
	Maintenance- 2nd year escalation of 8%		173.28				
							
	Add 10% For area weightage (Mangalore City)		233.93				
	Add 10% For area weightage (Mangalore City)	Rate					

Maintenance for 2nd Year: KSRB 4.2.1: Providing and laying in position reiforcement cement concrete of design Mix M25 with OPC cement @340Kgs,with 20mm and down size graded granite metal coarse aggregate @ 0.47 cum with super plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 at machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals, retaining 11 walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc.,Including cost of labour, HOM machinery, curing, complete but excluding cost of reinforcement as per specifications. (Page No 13, SI No : 4.10) Basic Rate 6198 Maintenance- 2nd year escalation of 8% 495.84 Add 10% For area weightage (Mangalore City) 669.38 Rate 7363.22 Cum Maintenance for 2nd Year: KSRB 4.6.1 Providing and removing centering, shuttering, strutting, propping etc., and removal of formwork for foundations, footings, bases of columns for mass concrete including cost of all materials, labour 12 complete as per specifications. Specification No. KSB 4.6.2 (Page No 15,SI No : 4.28) Basic Rate 263 Maintenance- 2nd year escalation of 8% 21.04 Add 10% For area weightage (Mangalore City) 28.4 Rate 312.44 Sqm Maintenance for 2nd Year: KSRB 4.9.2 : Providing T.M.T steel reinforcement for RCC work including straighting, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to thr adjoing members wherever necessary complete as per design 13 (laps,hooks and wastage shall not be measured and paid) cost of materials,labour,HOM of machinary complete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate 70782 Maintenance- 2nd year escalation of 8% 5662.56 Add 10% For area weightage (Mangalore City) 7644.46 Rate 84089.02 MT Maintenance for 2nd Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of sub-grade with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and 14 compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory rollercompaction by vibratory roller to 97% of proctors density) MORTH Specification No. 305 Basic Rate 513 Maintenance- 2nd year escalation of 8% 41.04 Add 20km lead (17.4 KSRRB M100-4.1-Cost of haulage excluding loading and unloading MORTH-100/Chapter 1-case 1-Surface Road)=2.5 Rs/ Tkm x 1.28 T x 20km 51.2 Sub Total 605.24 Add 10% For area weightage (Mangalore City) 60.52 Rate 665.76 Cum Maintenance for 2nd Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be 15 less than 10Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications. Morth specification No.601

(Page No 176,SI No : 22.1)

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	Basic Rate		4048		
	Maintenance- 2nd year escalation of 8%		323.84		
	Add 10% For area weightage (Mangalore City)		437.18		
		Rate	4809.02	Cum	
16	Maintenance for 2nd Year: KSRRB M600-1.Construction of dry lean cement concrete @160Kgs,with 25mm and down size graded granite/trap/basalt in fine aggregate @ 0.58cum Sub-base over prepared sub grade wit to IS:383) aggregate cement ration not to excee 15:1. Aggregat Table 600-1, cement content to be determined during trail length of less than 10Mpa at 7 days,mixed in a batching plant,transported to palte compactor,finishing and curing complete as per specifications (RA attached) Basic Rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City)	netal coa h (coarse e gradati constructi o site,Ma	rse aggregate and fine aggron on after blendi on, concrete so nually laid and	at 0.86cum and egate confirming ng to be as per trength not to be compacting with 601	
17	Maintenance for 2nd Year: KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain cement concrete pavement over prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisiz at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mix in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form pave spread,compacted and finished in a continuos operation including provision of contraction, expans construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberar sealent primer, joints sealant, debonding strip, dowel bars at 4.5m intervals, tie rod, admixtures approved, curing compound,finishing to lines and grades as per drawing complete as per sprcificatio MORTH specification No.602.do with M40 (420Kg per cum Cement,C.A,0.67 cum F.A.044Cum (Page No 176,SI No : 22.2.2)				
	Basic Rate		5765		
	Maintenance- 2nd year escalation of 8%		461.2		
	Add 10% For area weightage (Mangalore City)		622.62		
	Add 10701 of area weightage (Mangalore Oity)	Rate	6848.82		
		Nate	0040.02	Cum	
18	Maintenance for 2nd Year: Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealant manufacturer recommends and pouring the sealant all complete including material, manpower (Non SOR Item)				
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.2		115		
	Maintenance- 2nd year escalation of 8%		9.2		
	_	Rate	124.2	Rmt	
	_				
19	Maintenance for 2nd Year: KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints longitudinal joints and expansio joints in concrete pavement using epoxy mortar concrete complete as per specifications. Morth specificatio No.3005.1				
	Basic Rate		331		
	Maintenance- 2nd year escalation of 8%		26.48		
	Add 10% For area weightage (Mangalore City)		35.75		
		Rate	393.23		

position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 including making joints with or without grooves (thickness of joints except at sharp curve sharp curve sharp curve).							
Rate Arrived as per Rate analysis Basic Rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,Sl No : 5.3) Basic rate Maintenance for 2nd Year: Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire machinery,loading, unloading,lead and lift,transportation etc.,complete (Page No 25,Sl No : 5.3) Maintenance 2nd year escalation of 8% Maintenance for 2nd Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,n CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,h machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,Sl No : 5.3) Basic rate Maintenance 2nd year escalation of 8% Add 10% For area weightage 15481.61 Maintenance for 2nd Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM o with all lead and lifts, labour charges including implementation of Environmental and Social as per design, drawing, technical specifications and directions of Engineer-in-charge. Basic rate Maintenance-2nd year escalation of 8% 1.92 Add 10% For area weightage 24 Maintenance-2nd year escalation of 8% 1.92 Add 10% For area weightage	20	Providing and laying at or near ground level factory made kerb stone of M-20 grade cement concrete position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sar including making joints with or without grooves (thickness of joints except at sharp curve shall not to m than 5mm), including making drainage opening wherever required complete etc. as per direction Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).					
Basic Rate		(RA Attached)					
Basic Rate		Rate Arrived as per Rate analysis					
Maintenance- 2nd year escalation of 8% 1416.71 Add 10% For area weightage (Mangalore City) 1912.55 Maintenance for 2nd Year: Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,Sl No : 5.3) Basic rate 15481.61 Maintenance- 2nd year escalation of 8% 1238.5288 Add 10% For area weightage 1672.01 Maintenance for 2nd Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,n cC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,h machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,Sl No : 5.3) Basic rate 15481.61 Maintenance- 2nd year escalation of 8% 1238.5288 Add 10% For area weightage 1672.01 Maintenance for 2nd Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM o with all lead and lifts, labour charges including implementation of Environmental and Social as per design, drawing, technical specifications and directions of Engineer-in-charge. Basic rate 24 Maintenance- 2nd year escalation of 8% 1.92 Add 10% For area weightage 2.59 Add 10% For area weightage 2.59				17708.82			
Add 10% For area weightage (Mangalore City) Rate 21038.08 Ci Maintenance for 2nd Year: Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of the continuous							
Maintenance for 2nd Year: Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,Sl No : 5.3) Basic rate							
Maintenance for 2nd Year: Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3) Basic rate Maintenance 2nd year escalation of 8% 1238.5288 Add 10% For area weightage 1672.01 Maintenance for 2nd Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing, CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,h machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3) Basic rate 15481.61 Maintenance - 2nd year escalation of 8% 1238.5288 Add 10% For area weightage 1672.01 Maintenance for 2nd Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM of with all lead and lifts, labour charges including implementation of Environmental and Social as per design, drawing, technical specifications and directions of Engineer-in-charge. Basic rate 24 Maintenance- 2nd year escalation of 8% 1.92 Add 10% For area weightage 2.59		The second of th	Rate				
Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,Sl No : 5.3) Basic rate			110.10				
Maintenance- 2nd year escalation of 8% 1238.5288 Add 10% For area weightage 1672.01 Maintenance for 2nd Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing, not calculate the drawing of cast and jointed with CM 1:3 and finishing cutting, including cost of all materials, labour, homachinery, loading, unloading, lead and lift, transportation etc., complete (Page No 25, SI No: 5.3) Basic rate 15481.61 Maintenance- 2nd year escalation of 8% 1238.5288 Add 10% For area weightage 1672.01 Maintenance for 2nd Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM of with all lead and lifts, labour charges including implementation of Environmental and Social as per design, drawing, technical specifications and directions of Engineer-in-charge. Basic rate 24 Maintenance- 2nd year escalation of 8% 1.92 Add 10% For area weightage 2.59	21	Providin and fixing pre cast solid concrete Kerb stones as per to Jointed with CM 1:3 and finishing cutting, including cost of machinery,loading,unloading,lead and lift,transportation etc.,complete	of all ma				
Maintenance- 2nd year escalation of 8% 1238.5288 Add 10% For area weightage 1672.01 Maintenance for 2nd Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing, not calculate the drawing of cast and jointed with CM 1:3 and finishing cutting, including cost of all materials, labour, homachinery, loading, unloading, lead and lift, transportation etc., complete (Page No 25, SI No: 5.3) Basic rate 15481.61 Maintenance- 2nd year escalation of 8% 1238.5288 Add 10% For area weightage 1672.01 Maintenance for 2nd Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM of with all lead and lifts, labour charges including implementation of Environmental and Social as per design, drawing, technical specifications and directions of Engineer-in-charge. Basic rate 24 Maintenance- 2nd year escalation of 8% 1.92 Add 10% For area weightage 2.59		Rasic rate		15/01 61			
Add 10% For area weightage Maintenance for 2nd Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing, noted in the control of the con							
Maintenance for 2nd Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,n CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,h machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,Sl No : 5.3) Basic rate							
Maintenance for 2nd Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing, n CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,h machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,Sl No : 5.3) Basic rate		Add 10% For area weightage	Doto		Cum		
Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,n CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,h machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,Sl No : 5.3) Basic rate			Rate	10392.13	Cum		
Maintenance- 2nd year escalation of 8% Add 10% For area weightage 1672.01 Rate 18392.15 Cu Maintenance for 2nd Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM o with all lead and lifts, labour charges including implementation of Environmental and Social as per design, drawing, technical specifications and directions of Engineer-in-charge. Basic rate Basic rate 24 Maintenance- 2nd year escalation of 8% 1.92 Add 10% For area weightage 2.59	22	(Page No 25,SI No : 5.3)	ete				
Add 10% For area weightage Rate Maintenance for 2nd Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM o with all lead and lifts, labour charges including implementation of Environmental and Social as per design, drawing, technical specifications and directions of Engineer-in-charge. Basic rate							
Maintenance for 2nd Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM o with all lead and lifts, labour charges including implementation of Environmental and Social as per design, drawing, technical specifications and directions of Engineer-in-charge. Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage Rate 18392.15 Cu Provided HOM of Social materials, scaffolding HOM of Environmental and Social as per design, drawing, technical specifications and directions of Engineer-in-charge.							
Maintenance for 2nd Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM o with all lead and lifts, labour charges including implementation of Environmental and Social as per design, drawing, technical specifications and directions of Engineer-in-charge. Basic rate Maintenance- 2nd year escalation of 8% 1.92 Add 10% For area weightage 2.59		Add 10% For area weightage					
Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM o with all lead and lifts, labour charges including implementation of Environmental and Social as per design, drawing, technical specifications and directions of Engineer-in-charge. Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage 24 259			Rate	18392.15	Cum		
Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM o with all lead and lifts, labour charges including implementation of Environmental and Social as per design, drawing, technical specifications and directions of Engineer-in-charge. Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage 24 259		Maintenance for 2nd Vear					
Maintenance- 2nd year escalation of 8%1.92Add 10% For area weightage2.59	23	Removing and resetting of kerb stones. including cost of all ma with all lead and lifts, labour charges including implementation of as per design, drawing, technical specifications and directions of E	Environm	ental and Soci n-charge.	al Safeguards &		
Add 10% For area weightage 2.59							
Rate 28.51 No		Add 10% For area weightage					
			Rate	28.51	Nos.		
Maintenance for 2nd Year: KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approvon new plastered concrete surfaces, with materials, labour complete as per specifications. MC Chapter 8 (Page No 182,SI No : 24.1)	24	KSRRB 800-1. Painting two coats after filling the surface with synthon new plastered concrete surfaces, with materials, labour complete Chapter 8					
Basic Rate 80		Basic Rate		80			
Maintenance- 2nd year escalation of 8% 6.4		Maintenance- 2nd year escalation of 8%		6.4			
		Add 10% For area weightage (Mangalore City)		8.64			
Add 10% For area weightage (Mangalore City) 8.64			Rate	95.04	Sqm		
	25	Maintenance for 1st Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Mai	nhole for e	electrical ductir	ng.		
Maintenance for 1st Year:							
Maintenance for 1st Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting. As per Quotation							
Maintenance for 1st Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting.		Basic Rate					

	Sub Total		7534.8	
	GST 18%		1356.26	
	Fixing Charges @5%		376.74	
	Maintenance- 2nd year escalation of 8%		632.92	
	Wallicharioc 2nd year escalation of 070	Rate	9900.72	
		Rate	3300.12	1103.
	Maintenance for 2nd Year:	Marshala farra		
	P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on I	wannole for e	lectrical ductir	ıg.
	As per Quotation			1
	Basic Rate		7179.00	
	Discount 30%		-2153.7	
	Sub Total		5025.3	
	Fixing Charges @5%		251.265	
	Maintenance- 2nd year escalation of 8%	Doto	422.13 5698.70	
		Rate	3096.70	NOS.
	Maintenance for 2nd Year:			
27	P/F FRP Water gully cover with frame (25T) 600mmx500 mm a (Rate analysis attached)	at level footpa	th.	
	As per Quotation			
	Basic Rate		7912.28	
	Discount 30%		-2373.68	
	Sub Total		5538.6	
	Fixing Charges @5%		276.93	
	Maintenance- 2nd year escalation of 8%		465.24	
		Rate	6280.77	Nos.
	Maintenance for 2nd Year:			
	Providing gully pipe lowering, laying of PVC 100 mm dia pipes to and grade as indicated in drawings/design and hydraulically teall in intiger materials testing apparatus and water for testing apparatus.	esting of the p	pipe line.The r	ate shall include
	and grade as indicated in drawings/design and hydraulically te all jointing materials,testing apparatus and water for testi g etc No.41,Item No.7,KUWSDB SOR 2016-17)	esting of the p	oipe line.The r the Engineer	ate shall include
	and grade as indicated in drawings/design and hydraulically te all jointing materials,testing apparatus and water for testi g etc. No.41,Item No.7,KUWSDB SOR 2016-17) Basic Rate	esting of the p	oipe line.The r the Engineer 297	ate shall include in charge (page
	and grade as indicated in drawings/design and hydraulically to all jointing materials,testing apparatus and water for testi g etc. No.41,Item No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance- 2nd year escalation of 8% Add 10% on Labor Charges=Rs.47,For area weightage	esting of the p	oipe line.The r the Engineer 297 23.76	ate shall include in charge (page
	and grade as indicated in drawings/design and hydraulically te all jointing materials,testing apparatus and water for testi g etc. No.41,Item No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance- 2nd year escalation of 8%	esting of the pass directed by	oipe line.The r the Engineer 297 23.76 4.7	ate shall include in charge (page
	and grade as indicated in drawings/design and hydraulically te all jointing materials,testing apparatus and water for testi g etc. No.41,Item No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance- 2nd year escalation of 8% Add 10% on Labor Charges=Rs.47,For area weightage (Mangalore City)	esting of the p	oipe line.The r the Engineer 297 23.76	ate shall include in charge (page
20	and grade as indicated in drawings/design and hydraulically to all jointing materials,testing apparatus and water for testi g etc. No.41,Item No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance- 2nd year escalation of 8% Add 10% on Labor Charges=Rs.47,For area weightage	Rate 00mm dia, of ing cutting and	297 23.76 4.7 325.46 self cleaning of making good	ate shall include in charge (page) Rm design with the walls and
29	and grade as indicated in drawings/design and hydraulically teall jointing materials,testing apparatus and water for testing etc. No.41, Item No.7, KUWSDB SOR 2016-17) Basic Rate Maintenance- 2nd year escalation of 8% Add 10% on Labor Charges=Rs.47, For area weightage (Mangalore City) Maintenance for 2nd Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 10 screwed down or hinged grating with or without vent arm includit floors, cost of materials, labour, testing, complete as per specific (PWD SR 2015-16, P.No.86, SI.No.12.89) Basic Rate	Rate 00mm dia, of ing cutting and	297 23.76 4.7 325.46 self cleaning of making good fication No. Kl	Rm design with the walls and BS 11.1.10.
29	and grade as indicated in drawings/design and hydraulically te all jointing materials,testing apparatus and water for testi g etc. No.41,Item No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance- 2nd year escalation of 8% Add 10% on Labor Charges=Rs.47,For area weightage (Mangalore City) Maintenance for 2nd Year: KSRB 11-18-17.1 : Providing and fixing sand cast iron trap of 10 screwed down or hinged grating with or without vent arm includifloors, cost of materials, labour, testing, complete as per specific (PWD SR 2015-16,P.No.86, SI.No.12.89) Basic Rate Maintenance- 2nd year escalation of 8%	Rate 00mm dia, of ing cutting and	297 23.76 4.7 325.46 self cleaning of making good fication No. KI	Rm design with the walls and BS 11.1.10.
29	and grade as indicated in drawings/design and hydraulically teall jointing materials,testing apparatus and water for testing etc. No.41, Item No.7, KUWSDB SOR 2016-17) Basic Rate Maintenance- 2nd year escalation of 8% Add 10% on Labor Charges=Rs.47, For area weightage (Mangalore City) Maintenance for 2nd Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 10 screwed down or hinged grating with or without vent arm includit floors, cost of materials, labour, testing, complete as per specific (PWD SR 2015-16, P.No.86, SI.No.12.89) Basic Rate	Rate Oomm dia, of ing cutting and cations Speci	297 23.76 4.7 325.46 self cleaning of making good fication No. Kl	Rm design with the walls and BS 11.1.10.
29	and grade as indicated in drawings/design and hydraulically te all jointing materials,testing apparatus and water for testi g etc. No.41,Item No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance- 2nd year escalation of 8% Add 10% on Labor Charges=Rs.47,For area weightage (Mangalore City) Maintenance for 2nd Year: KSRB 11-18-17.1 : Providing and fixing sand cast iron trap of 10 screwed down or hinged grating with or without vent arm includifloors, cost of materials, labour, testing, complete as per specific (PWD SR 2015-16,P.No.86, SI.No.12.89) Basic Rate Maintenance- 2nd year escalation of 8%	Rate 00mm dia, of ing cutting and	297 23.76 4.7 325.46 self cleaning of making good fication No. KI	Rm design with the walls and BS 11.1.10.
29	and grade as indicated in drawings/design and hydraulically te all jointing materials,testing apparatus and water for testi g etc. No.41,Item No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance- 2nd year escalation of 8% Add 10% on Labor Charges=Rs.47,For area weightage (Mangalore City) Maintenance for 2nd Year: KSRB 11-18-17.1 : Providing and fixing sand cast iron trap of 10 screwed down or hinged grating with or without vent arm includifloors, cost of materials, labour, testing, complete as per specific (PWD SR 2015-16,P.No.86, SI.No.12.89) Basic Rate Maintenance- 2nd year escalation of 8%	Rate Oomm dia, of ing cutting and cations Speci Rate 0-29.1. Provid construction) ad walls at both IRC:98-1997, e of pipe at leto be made le r and dirt, al	297 23.76 4.7 325.46 self cleaning of making good fication No. KI 830 66.4 89.64 986.04 ling and laying, extending from the ends, provided on a geast half dia oak proof, inveit as per IRC:	Rm design with the walls and 3S 11.1.10. Nos. g of a reinforced order drain to drain iding a minimum 0.3 m thick layer of pipe subject to rt level of duct to 98 - 1997 and
29	and grade as indicated in drawings/design and hydraulically te all jointing materials, testing apparatus and water for testi g etc. No.41, Item No.7, KUWSDB SOR 2016-17) Basic Rate Maintenance- 2nd year escalation of 8% Add 10% on Labor Charges=Rs.47, For area weightage (Mangalore City) Maintenance for 2nd Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 10 screwed down or hinged grating with or without vent arm includifloors, cost of materials, labour, testing, complete as per specific (PWD SR 2015-16, P. No.86, SI. No.12.89) Basic Rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M800-29.3. Cable Duct Across the road KSRRB M800 cement concrete pipe duct, 300 mm dia, across the road (new in cuts and toe of slope to toe of slope in fills, constructing her fill of granular material over top and sides of RCC pipe as per of granular material free of rock pieces, outer to outer distance minimum450 mm in case of double and triple row ducts, joints to be above higher than ground level to prevent entry of wate approved drawings complete as per specifications. Case-III: T	Rate Oomm dia, of ing cutting and cations Speci Rate 0-29.1. Provid construction) ad walls at both IRC:98-1997, e of pipe at leto be made le r and dirt, al	297 23.76 4.7 325.46 self cleaning of making good fication No. KI 830 66.4 89.64 986.04 ling and laying, extending from the ends, provided on a geast half dia oak proof, inveit as per IRC:	Rm design with the walls and BS 11.1.10. Nos. g of a reinforced order drain to drain iding a minimum 0.3 m thick layer of pipe subject to rt level of duct to 98 - 1997 and
29	and grade as indicated in drawings/design and hydraulically te all jointing materials,testing apparatus and water for testi g etc. No.41,Item No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance- 2nd year escalation of 8% Add 10% on Labor Charges=Rs.47,For area weightage (Mangalore City) Maintenance for 2nd Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 10 screwed down or hinged grating with or without vent arm includifloors, cost of materials, labour, testing, complete as per specific (PWD SR 2015-16,P.No.86, SI.No.12.89) Basic Rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M800-29.3.Cable Duct Across the road KSRRB M800 cement concrete pipe duct, 300 mm dia, across the road (new in cuts and toe of slope to toe of slope in fills, constructing her if granular material over top and sides of RCC pipe as per lof granular material free of rock pieces, outer to outer distance minimum450 mm in case of double and triple row ducts, joints to be above higher than ground level to prevent entry of wate approved drawings complete as per specifications. Case-III:T (PWD SR 2015-16,SI.No.24.36)	Rate Oomm dia, of ing cutting and cations Speci Rate 0-29.1. Provid construction) ad walls at both IRC:98-1997, e of pipe at leto be made le r and dirt, al	297 23.76 4.7 325.46 self cleaning of making good fication No. Kl 830 66.4 89.64 986.04 ling and laying, extending from the ends, proving bedded on a geast half dia oak proof, inveit as per IRC: hree utility servence utility servence as the content of the ends of th	Rm design with the walls and as 11.1.10. Nos. g of a reinforced om drain to drain iding a minimum 0.3 m thick layer of pipe subject to 198 - 1997 and vices.

		Rate	5966.14 Rm		
	Maintenance for 2nd Year:	:4h C:1:			
	Providing and laying Dia 200mm HDPE Electrical pipe Conduits w dimensional ratio of 13.5, Deflection not greater than 5% which was a superior of the conduits with the conduit				
31	temparature 90°C under the over burden soil presuure and other p				
"	2160 and /or NEMA TC7. The expected service life of HDPE pip				
	less than 50 years.				
	(Market Rate)				
	Basic Rate		1471.08		
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123)		78		
	Add 10% For area weightage (Mangalore City)		7.8		
	Contractor Profit@10%		154.908		
	Sub Total		1556.88		
	Maintenance- 2nd year escalation of 8%	Doto	124.55		
		Rate	1681.43	KM	
	Maintenance for 2nd Year:			1	
	Providing and laying Dia 160mm HDPE Electrical pipe Conduits w				
32	dimensional ratio of 13.5, Deflection not greater than 5% when the state of the sta				
32	temparature 90°C under the over burden soil presuure and other p 2160 and /or NEMA TC7.The expected service life of HDPE pip				
	less than 50 years.(Market Rate)	e conduits	s and accesso	illes silali flot be	
		1 1	000.0	1	
	Basic Rate Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		996.3 66		
	No.50,Pg.No.123)		00		
	Add 10% For area weightage (Mangalore City)		6.6		
	Contractor Profit@10%		106.23		
	Sub Total		1068.9		
	Maintenance- 2nd year escalation of 8%	Rate	85.51 1154.41		
		Nate	1104.41	IXIII	
	Maintenance for 2nd Year:			1	
33	Providing and Fixing Spacers for Power Ducts of size 200 mm,	to be plac	ed at an inter	val of 1.5 meter.	
	Spacers shall be made of ABS raw material. (Market rate)				
		T T	1000	ı	
	Basic Rate Contractor Profit@10%		1003 100.3		
	Maintenance- 2nd year escalation of 8%		80.24		
	,	Rate	1183.54		
	Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm,	to be play	and at an inter	rval of 1.5 motor	
34	Spacers shall be made of ABS raw material.	to be plat	Leu at an inter	vai oi 1.5 meter.	
	(Market rate)				
	Basic Rate		1947		
	Contractor Profit@10%		194.7		
	Maintenance- 2nd year escalation of 8%	Pate	155.76 2297.46		
		Rate	2291.40	NOS.	
	Maintenance for 2nd Year:	1		1	
	Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lu				
35	comforming to ASTMF 2160 and /or equivalent indian standar				
33	loading and unloading at both destination and rolling, lowering into of pipe etc. Complete.	o trenches	,iaying true to	line and jointing	
	(Market Rate)				
	, ,	 	F04 7		
	Basic Rate Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		561.7 36		
	No.50,Pg.No.123)		30		
	Add 10% For area weightage (Mangalore City)		3.6		
	Contractor Profit@10%		56.17		
	Sub Total Maintenance- 2nd year escalation of 8%		601.3 48.1		
i	IMaintenance- 2nd year escalation of 8%		40.1	I	

	T			I
		Rate	649.40	Rm
	Maintenance for 2nd Year:			
	Supplying and Application charges required for stamping the freshl	v laid nev	v concrete (Cor	ncrete rate is not
26	included in this item) including finishing and colouring the top surfa			
36	and size using approved colour shade and staping it using approve			
		u stamp	pattern and am	ilquitting it on
	top with approved colour. Sealing entire area with concrete sealer.			
	Basic rate		624.00	
	Maintenance- 2nd year escalation of 8%		49.92	
	Add 10% For area weightage (Mangalore City)		67.39	
	Add 10% For area weightage (Mangalore City)	Data		
		Rate	741.31	Sqm
	Maintenance for 2nd Year:			
	Providing and laying heavy duty cobble stones 75mm thick, using of	ement ar	nd course sand	for manufacture
	of blocks of approved size, shape and colour with a minimum comp	ressive s	strength of 281	kg per sqm over
	30mm thick sand bed (average thickness) and compacting with	plate vib	rator having 3	tons compaction
37	force thereby forcing part of sand underneath to come up in be			
	surface joints into its final level, including cost of materials, labour			
	per specifications.	i and inc	JIVI OI IIIACIIIIICI	nes complete as
	(Page No 101,SI No : 14.7)			
	Basic rate		1114	
	Maintenance- 2nd year escalation of 8%		89.12	
	Add 10% For area weightage (Mangalore City)		120.31	
		Rate	1323.43	Sam
		Nate	1323.43	Sqiii
	N 1 4 A 1 V			
	Maintenance for 2nd Year:			
	KSRRB M500-17. Providing and laying dense graded bituminous			
	specified grading, premixed with VG30 grade bituminous binder a	nd, trans _l	porting the hot	mix to work site,
00	laying to the required grade, level and alignment, rolling with smooth	th wheel	ed, vibratory an	d tandem rollers
38	to achieve the desired compaction as per MORTH table 500-10 c	omplete	in all respects	complete as per
	specifications MORTH Specification No. 507 -using 100/120 TPH			
	(50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 16-17,S.I.No			
	100 min to 70 min) with 4.0 % VO 00 Bitainen(th VVB 10 17,0.ito		age 140.100)	
		ı		T
	Basic rate		7839	
	Maintenance- 2nd year escalation of 8%		627.12	
	Add 10% For area weightage (Mangalore City)		846.61	
		Rate	9312.73	Cum
	Maintenance for 2nd Year:	•		
	KSRRB M500-19. Providing and laying bituminous concrete 40 mr	n thick w	ith hot mix plan	nt using crushed
	aggregates of specified grading, premixed with bituminous binder			
	work site, laying with a paver finisher to the required grade, le			
39				
39	wheeled, vibratory and tandem rollers to achieve the desired co			
	clause No. 500.9 complete in all respects complete as per specifi			
	using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 n	nm to 45	mm) with 6 % $\$	/G-40 Bitumen
		ı		,
	Basic rate		8761	
	Maintenance- 2nd year escalation of 8%	<u> </u>	700.88	
	Add 10% For area weightage (Mangalore City)		946.19	
	- 7/	Rate	10408.07	
				- *
	Maintenance for 2nd Year:	l		l
		! al!	al divine f	400 400
	KSRRB M800 Road markers / Road stud KSRRB M800-35. Pro			
40	mm, diecast in aluminium, resistant to corrosive effect of salt and			
40	in concrete or asphaltic surface by drilling hole 30 mm upto a de			
	bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 co	omplete a	is per specifica	tions
			-	
	Pagio rato		200	
	Basic rate		289	
	Maintenance- 2nd year escalation of 8%		23.12	
	Add 10% For area weightage (Mangalore City)		31.21	
		Rate	343.33	Nos.

41	Maintenance for 2nd Year: Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface:Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area,thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be level,uniform and free from streak and holes complete as per specifications.MORTH specification No.803 (Page No 192,SI No : 24.57)					
	Basic Rate		429			
	Maintenance- 2nd year escalation of 8%		34.32			
	Add 10% For area weightage (Mangalore City)		46.33			
		Rate	509.65	Sqm		
42	Maintenance for 2nd Year: Operation and Maintenance for eToilets Stainless Steel Public Mod BOQ Item No.45. Baisc rate	del as spe	ecified in Road			
	Maintenance- 2nd year escalation of 8%		4896			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer		4030			
	Sr.No.1	Rate	66096	Nos.		
43	Maintenance for 2nd Year: Providing and fixing of S.S. Bollards(SS304) on footpath as specific (NON SOR Item)	ed and d	lirected by Engi	neer -in-charge		
	Rate Approved as per EOI by MD MSCL Mangalore,Refer					
	Sr.No.13		4500.00			
	Maintenance- 2nd year escalation of 8%	_	360			
		Rate	4860	Nos.		
44	Maintenance for 2nd Year: Providing and fixing of railing as detail design in MS HOLLOW SEC approved), with vertical support of 0.9m @2.2mc/c , all complete architect.(Non SOR Item)					
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.26		100000.00			
	Maintenance- 2nd year escalation of 8%		8000			
		Rate	108000	MT		
45	Maintenance for 2nd Year: Excavation and removal of silt and silt mixed with sand in slussy condition from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with lead upto 50 m and all lifts. For Desilting of drains and grit chambers including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-in-charge.					
	Basic Rate		179.00			
	Maintenance- 2nd year escalation of 8%		14.32			
		Rate	193.32	Nos.		
46	Maintenance for 2nd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km be Item No 17.4 KSRRB M100-4.1-Earth	•				
	Earth	2.0x	1.28x10km			
	Baisc rate		25.60			
	Add Loading and unloading charges(Item No 17.1 KSRRB M100-1)		60 00			
	Sub Total-1		68.00 93.60			
	Add 10% For area weightage (Mangalore City)		93.60			
	Sub Total-2		102.96			
	Maintenance- 2nd year escalation of 8%		8.24			
	,	Rate	111.20			

	Ten a di a di a di a di a di a di a di a d					
47						
	Item No 17.4 KSRRB M100-4.1-Debris					
	Debris	2.0x ²	1.30x10Km			
	Baisc rate		26.00			
	Add Loading and unloading charges(Item No 17.1 KSRRB M100-					
	1)		68.00			
	Sub Total-1		94.00			
	Add 10% For area weightage (Mangalore City)		9.4			
	Sub Total-2		103.40			
	Maintenance- 2nd year escalation of 8%		8.27			
	·	Rate	111.67	Cum		
	Lighting Poles	'		•		
	Maintenance for 2nd Year:					
48	Dismantling of pole/ street light standard/ strut embedded in cemer	nt concret	е			
40	foundation etc. as required					
	(Delhi analysis of rates E & M 2016, item 12.42, pg 395))					
	Basic Rate		1,681			
	Maintenance- 2nd year escalation of 8%		134.45			
	Than to take a few and the few	Rate	1815.0956			
		rtato	10101000	11001		
	Maintenance for 2nd Year:	ı		I		
	Lighting Pole, 7 m					
	Fabrication, suppl and erection of 7 meters long hot dip Galvanised	l Octagor	al note with BS	SE 10025 grade		
	S 355 JO steel plate for shaft, IS 2062 for base plate with oor open					
	boards, bakelite sheet and MCBs as per IS specifications suitable					
49	in single section and single joint welded as per IS 9595/IS 10178 A					
	dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and					
		nan oo m	icion as pei As	STIVI - ATZS and		
	153 etc., (excluding foundation) as per drawing appended					
	(Ref Electrical SOR SI No. 5.14.5)					
	Basic rate		12420			
	Maintenance- 2nd year escalation of 8%		993.6			
		Rate	13,413.60	Nos.		
	Maintenance for 2nd Year:					
	Lighting Pole, 4 m					
	Fabrication, supply and erection of 4 meters long hot dip Galvanise					
	S 355 JO steel plate for shaft, IS 2062 for base plate with door ope					
50	boards, bakelite sheet and MCBs as per IS specifications suitable					
50	in single section and single joint welded as per IS 9595/IS 10178 A					
	dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of lo					
	pole shall be hot dip galvanized in single dipping with not less than	65 micro	n as per ASTM	I - A123 and 153		
	etc., (excluding foundation) as per drawing appended					
	(Ref Electrical SOR SI No.5.14.2)					
	Basic rate		7398			
	Maintenance- 2nd year escalation of 8%		591.84			
	maintenance and your obtained of 070	Rate	7,989.84			
-	Maintenance for 2nd Year:	Nate	1,303.04	1403.		
		outdoor !	uminariae and	mounted as		
F 4	Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for	outdoor II	ummanes and	mounted off		
51	Octagonal pole using necessary bolts, nuts, etc. complete					
	Double Cross arm - 1500 mm					
	(Ref Electrical SOR SI No.5.18.5)					
	Basic rate		3540			
	Maintenance- 2nd year escalation of 8%		283.2			
		Rate	3,823.20	NOS.		
	Maintenance for 2nd Year:					
	Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for	outdoor l	uminaries and	mounted on		
52	Octagonal pole using necessary bolts,nuts, etc. complete					
	Single Cross arm - 1500 mm					
	(Ref Electrical SOR SI No.5.18.2)					
	Basic rate		2400			
	Maintenance- 2nd year escalation of 8%		192			
		Rate	2,592	Nos.		

	Maintenance for 2nd Year:						
53	Painting of Existing street light pole after scrapping the old paint and painted with suitable colour enamel						
55	including coping/footing of the pole8mtr and above street light pole (Ref Electrical SOR SI No.16.28.3)						
	(Nei Electrical SON SI No. 10.20.3)						
	Basic rate		620				
	Maintenance- 2nd year escalation of 8%		49.6				
		Rate	670	Nos.			
	Oudoor Box and Switch Gear						
	Maintenance for 2nd Year:			<u>I</u>			
54	Supply, installation, testing and commissioning of outdoor junction	box for mou	unting MCB/0	Contactors with			
	all required accessories and componenets						
	Price list (Considering 30% discount , 18% GST & 10% profit)		11782.92				
	Maintenance- 2nd year escalation of 8%		942.63				
	,	Rate	12,726				
	Maintenance for 2nd Year:						
	Supply and fixing of miniature circuit breaker on exisiting board usi						
55	type curve, indicator ON/OFF, energy cross-3 with short circuit breas required confirming to IEC 60898	aking capad	city of 10 KA	complete wiring			
	5- 32A TPN						
	Electrical SOR- 6.16.5)						
	Basic rate		1547				
	Maintenance- 2nd year escalation of 8%		123.76				
		Rate	1,671	Nos.			
	170.11						
	LT Cable Maintenance for 2nd Year:						
	4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)						
	Basic rate		117				
	Maintenance- 2nd year escalation of 8%		9.36				
		Rate	126.36	Rm			
	Maintenance for 2nd Year:						
	Supply and drawing flexible multicore cable with electrolyte grade f						
57	conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insworking voltage up to 1100 V as per IS-694:1990 and conforming to			litable for			
	3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	0 011 010	Sloup A.				
	Basic rate		91.6	<u> </u>			
	Maintenance- 2nd year escalation of 8%		81.6 6.53				
	Walkerlands 2nd your obsaidlien or 678	Rate	88.13				
	Maintenance for 2nd Year:	•					
58	Supplying tinned copper lugs and crimping and wiring to terminal p	oint for wire	e of following	sizes			
	16 Sq.mm PVC Aluminium Conductor						
	(Ref Electrical SOR SI No.7.21,7.21.6) Basic rate		11 21	<u> </u>			
	Maintenance- 2nd year escalation of 8%		11.31 0.9				
	The four obtained of the four obtained of the four of the four obtained	Rate		Nos.			
	Maintenance for 2nd Year:	1		•			
59	Supplying tinned copper lugs and crimping and wiring to terminal p	oint for wire	e of following	sizes			
55	2.5 sq. mm copper conductor						
	(Ref Electrical SOR SI No.7.21.2)	<u> </u>	0.40	T			
	Basic rate Maintenance- 2nd year escalation of 8%		3.12 0.25				
	Invaline rance- Znu year escalation or 6/6	Rate		Nos.			
		a.c	3.37				

	Maintanana far 2nd Vaar			
	Maintenance for 2nd Year:			
	Chemical Earthing for grounding, conduits, IC cut outs and othere			rdby using
	copper /SS rod with earth enhancing backfill compound which is			
60	,thermally,conductive,potential,to permissible,limits,superior,fault	,conductive	capacity,non t	oxic,weather
	resistance and capable of achieving ohmic value			
	less than one ohm			
	(Ref Electrical SOR Pg.No.64,SI No.7.23.6)			
	,	1	5500	1
	Basic rate		5500	
	Maintenance- 2nd year escalation of 8%		440	
		Rate	5940	Kit
	Maintenance for 2nd Year:			
61	Supply and running GI conductor for grounding and (along with cusing necessasary suitable size clamps, nails, guttas/spacers et (Ref Electrical SOR SI No.7.22.3)		n conduits syst	em of wiring)
	Basic rate		19.5	
	Maintenance- 2nd year escalation of 8%		1.56	
	Indinterialise Zita year essalation of 676	Rate	21.06	
		Nate	21.00	KIIIL
62	Maintenance for 2nd Year: Supplying and stacking of good earth at site including royalty and measured in stacks will be reduced by 20% for payment). (Non SOR Item)	d carriage u	pto 5 k.m. lead	l complete (earth
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.27		140.00	
	Maintenance- 2nd year escalation of 8%		11.2	
		Rate	151.20	Cum
	Maintonance for 2nd Vear:			
	Maintenance for 2nd Year:	onura KCD	DD M200 44	Cumply of site of
	KSRRB M300-Supply at site of work well decayed farm yard m			
63	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sou	rce, approv	red by the eng	gineer in charge
63	KSRRB M300-Supply at site of work well decayed farm yard m	rce, approv	red by the eng	gineer in charge
63	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sou	rce, approv	red by the eng	gineer in charge
63	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sou including screening and stackin complete as per specification No.152,SI.No.19.90)	rce, approv	red by the eng	gineer in charge
63	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sou including screening and stackin complete as per specification	rce, approv	red by the eng	gineer in charge
63	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sou including screening and stackin complete as per specification No.152,SI.No.19.90)	rce, approv	red by the end Specification	gineer in charge
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63	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sou including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate	rce, approv s. MORTH	204 16.32 22.03	gineer in charge No. 308.2(Page
63	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sou including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage	rce, approv	yed by the eng Specification 204 16.32	gineer in charge No. 308.2(Page
63	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sou including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage Maintenance for 2nd Year:	rce, approv s. MORTH	204 16.32 22.03 242.35	gineer in charge No. 308.2(Page
63	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sour including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage Maintenance for 2nd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge	Rate e farm yard	204 16.32 22.03 242.35 d manure or/	gineer in charge No. 308.2(Page
	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sou including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage Maintenance for 2nd Year:	Rate e farm yard	204 16.32 22.03 242.35 d manure or/	gineer in charge No. 308.2(Page
63	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sour including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage Maintenance for 2nd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge	Rate e farm yard	204 16.32 22.03 242.35 d manure or/ n in required the	gineer in charge No. 308.2(Page Cum and good earth nickness (cost of
	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sou including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage Maintenance for 2nd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge KSRRB M300-1. Spreading of sludge farm yard manure or/ and sludge, farm yard manure or/and good earth to be paid for second states.	Rate e farm yard	204 16.32 22.03 242.35 d manure or/ n in required the	gineer in charge No. 308.2(Page Cum and good earth nickness (cost of
	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sou including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage Maintenance for 2nd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge KSRRB M300-1. Spreading of sludge farm yard manure or/ and sludge, farm yard manure or/and good earth to be paid for semonth of the semonth of the paid for semonth of the semonth of the paid for	Rate e farm yard	204 16.32 22.03 242.35 d manure or/ n in required the	gineer in charge No. 308.2(Page Cum and good earth nickness (cost of
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	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sour including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage Maintenance for 2nd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge KSRRB M300-1. Spreading of sludge farm yard manure or/ and sludge, farm yard manure or/and good earth to be paid for simple MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77) Basic rate Maintenance- 2nd year escalation of 8%	Rate e farm yard	204 16.32 22.03 242.35 d manure or/ n in required the complete as per	cum and good earth nickness (cost of er specifications.
	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sour including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage Maintenance for 2nd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge KSRRB M300-1. Spreading of sludge farm yard manure or/ and sludge, farm yard manure or/and good earth to be paid for semonth of the policy of the paid for semonth of the policy of the paid for semonth of the paid for s	Rate e farm yard	204 16.32 22.03 242.35 d manure or/ n in required the complete as per 103 8.24 11.12	cum and good earth nickness (cost of er specifications.
	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sour including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage Maintenance for 2nd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge KSRRB M300-1. Spreading of sludge farm yard manure or/ and sludge, farm yard manure or/and good earth to be paid for simple MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77) Basic rate Maintenance- 2nd year escalation of 8%	Rate e farm yard	204 16.32 22.03 242.35 d manure or/ n in required the complete as per	cum and good earth nickness (cost of er specifications.
	KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sour including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage Maintenance for 2nd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge KSRRB M300-1. Spreading of sludge farm yard manure or/ and sludge, farm yard manure or/and good earth to be paid for simple MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77) Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area wightage	Rate e farm yard good earth eparately) c	204 16.32 22.03 242.35 d manure or/ n in required the complete as per 103 8.24 11.12	cum and good earth nickness (cost of er specifications.
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	Add 10% For area wightage		11.12	
		Rate	122.36	Sqm
	TURF			
67	Maintenance for 2nd Year: ZOYSIA JAPONICA (MAT)			
07	(Non SOR Item)			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.32		156.80	
	Maintenance- 2nd year escalation of 8%		12.54	
		Rate	169.34	Sqm
	IRRIGATION			
	Maintenance for 2nd Year:			
68	Watering with tanker to landscape area and plants for one year			
	Water Tanker =61 Rs/ Hour, One Year Cost=92 days x 3 hrs x		16836	
	61rs/hr (365days-90 days of mansoon=275 days/3 days=92			
	days,consider watering at every 3 days)			
	Mazdoor = 0.5 days x 258.88		11908.48	
	Add 10% For area wightage		1190.848	
	Maintenance- 2nd year escalation of 8%		2299.56	
		Rate	32234.89	Year
	Maintenance for 2nd Year:			
	supply and fixing of irrigation lines such that all the green areas	and pla	nts are adequa	tely watered: by
	means of drip irrigation for trees , sub surface for shrubs and I			
69	sprinklers for lawn areas. (Equipment make - Rainbird or equivaler		J	
	All material used should be comply to BSI code. All the necessar		and pump requi	red for complete
	commissioning to be installed.	•		•
	(Non SOR Item)			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.34		560.00	
	Maintenance- 2nd year escalation of 8%		44.8	
		Rate	604.80	Sqm

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 7.1 Abstract for Maintenance of Road and Other Work for DPR 5 - 3rd Year

7.1 Abstract for Maintenance of Road and Other Work for DPR 5 - 3rd Year					
Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
	Civil Works				
1.00	Maintenance for 3rd Year: Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA attached)	Sqm	14.00	76.34	1069
2.00	Maintenance for 3rd Year: KSRRB M200.Dismantling of cement concrete pavement by mechanical means using pueumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock pilling at designated locations and disposal of dismantled material stacking serviceble and unserviceable materials separately complete as per specifications.MORTH specification No.202.(Including transporting charges, loading and unloading for lead 5km-Extra) (Page No 138, SI No : 18.47)		18.38	1107.57	20,357
3.00	Maintenance for 3rd Year: KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M200-26. Dismantling Kerb stone by Manual means and disposal of dismantled materials with all lifts and complete as per specifications.MORTH Specification No.202. (Page No.139,S.I.No.18.49)	Rmt	20.00	14.78	296
4.00	Maintenance for 3rd Year: KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202 (KPWD SOR 16-17,18.20,Page No.137)	Cum	20.00	480.48	9,610
5.00	Maintenance for 3rd Year: KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonary, cement concrete, woodwork, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar		3.45	432.43	1,492
6.00	(Page No 137,SI No : 18.23) Maintenance for 3rd Year: KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 1.00Km and complete as per specifications. MORTH specification No.301(Including transporting charges, loading and unloading for lead 5km) (Page No 143,SI No : 19.14)	Cum	250.00	50.51	12,628
7.00	Maintenance for 3rd Year: KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(KPWD 16-17,SI No.2.11,Pg. No.6)	Cum	75.00	147.84	11,088
8.00	Maintenance for 3rd Year: KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3.(KPWD 16-17,SI No.19.64,Pg. No.149)		500.00	7.39	3,695

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
9.00	Maintenance for 3rd Year: KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2015-16)		7.50	7268.80	54,516
10.00	Maintenance for 3rd Year: KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material	Cum	37.50	2668.51	100,069
11.00	Maintenance for 3rd Year: KSRB 4.2.1: Providing and laying in position reiforcement cement concrete of design Mix M25 with OPC cement @340Kgs,with 20mm and down size graded granite metal coarse aggregate @ 0.47 cum with super plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 at machine mixed,concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls,return walls,walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of machinery,curing,complete but excluding cost of reinforcement as per specifications. (Page No 13,SI No : 4.10)	Cum	48.00	7635.94	3,66,525
12.00	Maintenance for 3rd Year: KSRB 4.6.1 Providing and removing centering, shuttering, strutting, propping etc.,and removal of formwork for foundations, footings, bases of columns for mass concrete including cost of all materials,labour complete as per specifications. Specification No. KSB 4.6.2 (Page No 15,SI No: 4.28)		360.00	324.02	1,16,647
13.00	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work including straighting,cutting,bending,hooking,placing in position,lapping and/or welding wherever required,tying with binding wire and anchoring to thr adjoing members wherever necessary complete as per design (laps,hooks and wastage shall not be measured and paid) cost of materials,labour,HOM of machinary complete as per specifications.Specification No. KBS4.6.3. do with TMT bars Fe500	MT	3.84	87203.42	3,34,861
14.00	Maintenance for 3rd Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of sub-grade with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory rollercompaction by vibratory roller to 97% of proctors density) MORTH Specification No. 305	Cum	61.25	688.34	42,161
15.00	Maintenance for 3rd Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications.Morth specification No.601 (Page No 176,SI No : 22.1)	Cum	12.25	4987.14	61,092

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
16.00	Maintenance for 3rd Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,Manually laid and compacting with palte compactor,finishing and curing complete as per specifications.Morth specification No.601 (RA attached)	Cum	20.00	4533.76	90,675
17.00	Maintenance for 3rd Year: KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars at 4.5m intervals, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per sprcifications MORTH specification No.602.do with M40 (420Kg per cum Cement,C.A,0.67 cum F.A.044Cum (Page No 176,SI No : 22.2.2)	Cum	28.18	7102.48	2,00,148
18.00	Maintenance for 3rd Year: Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealant manufacturer recommends and pouring the sealant all complete including material, manpower (Non SOR Item)	Pmt	650.00	126.50	82,225
19.00	Maintenance for 3rd Year: KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints longitudinal joints and expansion joints in concrete pavement using epoxy mortar concrete complete as per specifications.Morth specification No.3005.1 (Page No 257,SI No : 35.8)		650.00	407.79	2,65,064
20.00	Maintenance for 3rd Year: Providing and laying at or near ground level factory made kerb stone of M-20 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge). (RA Attached)	Cum	0.10	21817.27	2,182
21.00	Maintenance for 3rd Year: Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of CC 1:2:4 and Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3)	Cum	2.79	19073.34	53,215
22.00	Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,made out of CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3)		1.18	19073.34	22,507

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
23.00	Maintenance for 3rd Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-incharge.	Rmt	100.00	29.57	2,957
24.00	Maintenance for 3rd Year: KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No 182,SI No : 24.1)	Sqm	82.50	98.56	8,131
25.00	Maintenance for 3rd Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting.	Nos.	5.00	9192.46	,45,962
26.00	Maintenance for 3rd Year: P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached)	Nos.	5.00	6130.87	30,654
27.00	Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm at level footpath. (Rate analysis attached)	Nos.	5.00	6757.09	33,785
28.00	Maintenance for 3rd Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes to the required alignments including specials and grade as indicated in drawings/design and hydraulically testing of the pipe line. The rate shall include all jointing materials, testing apparatus and water for testi g etc as directed by the Engineer in charge (page No.41, Item No.7, KUWSDB SOR 2016-17)		20.00	337.34	6,747
29.00	Maintenance for 3rd Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100mm dia, of self cleaning design with screwed down or hinged grating with or without vent arm including cutting and making good the walls and floors, cost of materials, labour, testing, complete as per specifications Specification No. KBS 11.1.10. (PWD SR 2015-16,P.No.86, SI.No.12.89)		20.00	1022.56	20,451
30.00	Maintenance for 3rd Year: KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings complete as per specifications. Case-III: Triple row for three utility services. (PWD SR 2015-16,SI.No.24.36)		20.00	6187.10	1,23,742
31.00	Maintenance for 3rd Year: Providing and laying Dia 200mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5,Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7.The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years. (Market Rate)		150.00	1908.47	2,86,270
32.00	Maintenance for 3rd Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5,Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7.The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years.(Market Rate)	Rmt	100.00	1308.75	1,30,875

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
33.00	Maintenance for 3rd Year: Providing and Fixixng Spacers for Power Ducts of size 225 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20.00	1183.54	23,671
34.00	Maintenance for 3rd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20.00	2375.34	47,507
35.00	Maintenance for 3rd Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lubricant inner layer for ICT fibre cables comforming to ASTMF 2160 and /or equivalent indian standard and conveying to work site including loading and unloading at both destination and rolling,lowering into trenches,laying true to line and jointing of pipe etc.Complete. (Market Rate)		40.00	736.37	29,455
36.00	Maintenance for 3rd Year: Supplying and Application charges required for stamping the freshly laid new concrete (Concrete rate is not included in this item) including finishing and colouring the top surface accurately to the required level,shape and size using approved colour shade and staping it using approved stamp pattern and antiquitting it on top with approved colour. Sealing entire area with concrete sealer.		200.00	768.77	1,53,754
37.00	Maintenance for 3rd Year: Providing and laying heavy duty cobble stones 75mm thick, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 30mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. (Page No 101,SI No: 14.7)		75.00	1372.45	102,934
38.00	Maintenance for 3rd Year: KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No. 507 -using 100/120 TPH capacity H.M.P. with sensor paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 16-17,S.I.No.21.17.1,Page No.163)		6.00	9657.65	57,946
39.00	Maintenance for 3rd Year: KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-40 Bitumen	Cum	1.60	10793.55	17,270
40.00	Maintenance for 3rd Year: KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications		50.00	356.05	17,803

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
41.00	Maintenance for 3rd Year: Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface:Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area,thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be level,uniform and free from streak and holes complete as per specifications.MORTH specification No.803 (Page No 192,SI No : 24.57)	Sqm	600.00	528.53	3,17,118
42.00	Maintenance for 3rd Year: Operation and Maintenance for eToilets Stainless Steel Public Model as specified in Road and Other works BOQ Item No.45.	Nos	3.00	68544.00	2,05,632
43.00	Maintenance for 3rd Year: Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	2.00	5040.00	10,080
44.00	Maintenance for 3rd Year: Providing and fixing of railing as detail design in MS HOLLOW SECTION and bars (shop drawing to be approved), with vertical support of 0.9m @2.2mc/c, all complete to the satisfaction of the Landscape architect.(Non SOR Item)	MT	0.10	112000.00	11,200
45.00	Maintenance for 3rd Year: Excavation and removal of silt and silt mixed with sand in slussy condition from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with lead upto 50 m and all lifts. For Desilting of drains and grit chambers including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-incharge.	Cum	1015.00	200.48	2,03,487
46.00	Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Earth	Cum	200.00	115.32	23,064
47.00	Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Itom No. 17.4 KSRRR M100.4.1 Debrie	Cum	70.00	115.81	8,107
	Item No 17.4 KSRRB M100-4.1-Debris Electrical Works				
48.00	Maintenance for 3rd Year: Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required (Delhi analysis of rates E & M 2016, item 12.42, pg 395))	Nos.	1.00	1050.56	1,051
49.00	Maintenance for 3rd Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with oor opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 m pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 155 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5)	Nos.	1.00	13910.40	13,910
50.00	Maintenance for 3rd Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 4 pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No.5.14.2)	Nos.	1.00	8285.76	8,286

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
51.00	Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5)	Nos.	1.00	3964.80	3,965
52.00	Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2)	Nos.	1.00	2688.00	2,688
53.00	Maintenance for 3rd Year: Painting of Existing street light pole after scrapping the old paint and painted with suitable colour enamel including coping/footing of the pole8mtr and above street light pole (Ref Electrical SOR SI No.16.28.3)	Nos.	242.00	694.40	168,045
54.00	Maintenance for 3rd Year: Supply, installation, testing and commissioning of outdoor junction box for mounting MCB/Contactors with all required accessories and componenets	Nos.	1.00	13196.96	13,197
55.00	Maintenance for 3rd Year: Supply and fixing of miniature circuit breaker on exisiting board using necessasary fixing material and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10 KA complete wiring as required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5)	Nos.	1.00	1732.64	1,733
56.00	LT Cable Maintenance for 3rd Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)	m	60.00	131.04	7,862
57.00	Maintenance for 3rd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible copper with low conductor conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insulation and sheathed suitable for working voltage up to 1100 V as per IS-694:1990 and conforming to GTP of Group A. 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	m	10.00	91.39	914
58.00	Maintenance for 3rd Year: Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6)	Nos	10.00	12.67	127
59.00	Maintenance for 3rd Year: Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 2.5 sq. mm copper conductor (Ref Electrical SOR SI No.7.21.2)	Nos	8.00	3.49	28
60.00	Earthing system Maintenance for 3rd Year: Chemical Earthing for grounding,conduits,IC cut outs and otherequipmentson the mter boardby using copper /SS rod with earth enhancing backfill compound which is non corrosive ,thermally,conductive,potential,to permissible,limits,superior,fault,conductive capacity,non toxic,weather resistance and capable of achieving ohmic value less than one ohm (Ref Electrical SOR Pg.No.64,SI No.7.23.6)	Kit	1.00	6160.00	6,160
61.00	Maintenance for 3rd Year: Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3)	Rmt	50.00	21.84	1,092
	Landcaping Works SOIL MIXES and Ground Preparation				

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
62.00	Maintenance for 3rd Year: Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item)		1.50	156.80	235
63.00	Maintenance for 3rd Year: KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)	Cum	0.75	251.33	188
64.00	Maintenance for 3rd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77)		2.00	126.90	254
65.00	Maintenance for 3rd Year: Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)	Cum	2.00	26.78	54
66.00	Soil preparation of Lawn Maintenance for 3rd Year: KSRRB M300-3.Making lawns including ploughing and breaking of clod,removal of rubbish,dressing and supplying doobs grass roots and planting at 15 cm apart,including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications. MORTH Specification No.307 (KSRRB 19.80)	Sqm	382.19	129.20	49,379
67.00	TURF Maintenance for 3rd Year: ZOYSIA JAPONICA (MAT) (Non SOR Item) IRRIGATION	Sqm	3.00	175.62	527
68.00	Maintenance for 3rd Year: Watering with tanker to landscape area and plants for one year	Year	1.00	33384.67	33,385
69.00	Maintenance for 3rd Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees, sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item)	Sqm	3.00	627.20	1,882
	·			Total	40,85,686

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 7.2 M.S. For Maintenance of Road and Other Work for DPR 5 - 3rd Year

	7.2 M.S. For Maintenance of Road and Other	WORK TO	DPK 3 - 3	ru rear			
Sr.No.	Specification	Unit	No.	L	В	D	Qty.
1.00	Civil Works Maintenance for 3rd Year: Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA attached)		1	7	2		14.00
2.00	Maintenance for 3rd Year: KSRRB M200.Dismantling of cement concrete pavement by mechanical means using pueumatic tools,breaking to pieces not exceeding 0.02 cum in volume and stock pilling at designated locations and disposal of dismantled material stacking serviceble and unserviceable materials separately complete as per specifications.MORTH specification No.202.(Including transporting charges,loading and unloading for lead 5km-Extra) (Page No 138,SI No : 18.47)		5	3.5	3.5	0.3	18.38
3.00	Maintenance for 3rd Year: KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M200-26. Dismantling Kerb stone by Manual means and disposal of dismantled materials with all lifts and complete as per specifications.MORTH Specification No.202. (Page No.139,S.I.No.18.49)	Rmt	1	20			20.00
4.00	Maintenance for 3rd Year: KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202 (KPWD SOR 16-17,18.20,Page No.137)	Cum	1	40	1	0.5	20.00
5.00	Maintenance for 3rd Year: KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonary, cement concrete, woodwork, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar (Page No 137,SI No : 18.23)	Cum	10	3	0.5	0.23	3.45
6.00	Maintenance for 3rd Year: KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 1.00Km and complete as per specifications. MORTH specification No.301(Including transporting charges, loading and unloading for lead 5km) (Page No 143,SI No: 19.14)	Cum	1.00	100	5	0.5	250.00
7.00	Maintenance for 3rd Year: KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(KPWD 16-17,SI No.2.11,Pg. No.6)	Cum	1.00	30	5	0.5	75.00
8.00	Maintenance for 3rd Year: KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3.(KPWD 16-17,SI No.19.64,Pg. No.149)	Sqm	1.00	100		5	500.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
9.00	Maintenance for 3rd Year: KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2015-16)		1.00	15	5	0.1	7.50
10.00	Maintenance for 3rd Year: KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material	Cum	1.00	50	5	0.15	37.50
11.00	Maintenance for 3rd Year: KSRB 4.2.1 : Providing and laying in position reiforcement cement concrete of design Mix M25 with OPC cement @340Kgs,with 20mm and down size graded granite metal coarse aggregate @ 0.47 cum with super plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 at machine mixed,concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls,return walls,walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of machinery,curing,complete but excluding cost of reinforcement as per specifications. (Page No 13,SI No : 4.10)		1.00	200	0.2	1.2	48.00
12.00	Maintenance for 3rd Year: KSRB 4.6.1 Providing and removing centering, shuttering, strutting, propping etc.,and removal of formwork for foundations, footings, bases of columns for mass concrete including cost of all materials,labour complete as per specifications. Specification No. KSB 4.6.2 (Page No 15,SI No : 4.28)		2.00	200		0.9	360.00
13.00	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work including straighting, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to thr adjoing members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinary complete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500	MT	1.00	3.84			3.84
14.00	Maintenance for 3rd Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of sub-grade with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory roller to 97% of proctors density) MORTH Specification No. 305		10.00	3.5	3.5	0.5	61.25
15.00	Maintenance for 3rd Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications.Morth specification No.601 (Page No 176,SI No : 22.1)	Cum	10.00	3.5	3.5	0.1	12.25

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
16.00	Maintenance for 3rd Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,Manually laid and compacting with palte compactor,finishing and curing complete as per specifications.Morth specification No.601 (RA attached)	Cum	1.00	100	2	0.1	20.00
17.00	Maintenance for 3rd Year: KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars at 4.5m intervals, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per sprcifications MORTH specification No.602.do with M40 (420Kg per cum Cement,C.A,0.67 cum F.A.044Cum (Page No 176,SI No : 22.2.2)	Cum	10.00	3.5	3.5	0.23	28.18
18.00	Maintenance for 3rd Year: Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealant manufacturer recommends and pouring the sealant all complete including material, manpower (Non SOR Item)	Rmt	1.00	650			650.00
19.00	Maintenance for 3rd Year: KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints longitudinal joints and expansion joints in concrete pavement using epoxy mortar concrete complete as per specifications.Morth specification No.3005.1 (Page No 257,SI No : 35.8)		1.00	650			650.00
20.00	Maintenance for 3rd Year: Providing and laying at or near ground level factory made kerb stone of M-20 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).		1	1	0.1		0.10
21.00	(RA Attached) Maintenance for 3rd Year: Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of CC 1:2:4 and Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3)		1	100	0.03		2.79
22.00	Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,made out of CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3)		1	100	0.01		1.18

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
23.00	Maintenance for 3rd Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-in-charge.	Rmt	100				100.00
24.00	Maintenance for 3rd Year: KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No 182,SI No : 24.1)		1	500	0.17		82.50
25.00	Maintenance for 3rd Year: P/F Square shape 600mmx450 mm precast R.C.C. manhole cover with frame (Rate analysis attached)	Nos.	5.00				5.00
26.00	Maintenance for 3rd Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting.	Nos.	5.00				5.00
27.00	Maintenance for 3rd Year: P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached)	Nos.	5.00				5.00
28.00	Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm at level footpath. (Rate analysis attached)	Nos	20.00	1.00			20.00
29.00	Maintenance for 3rd Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100mm dia, of self cleaning design with screwed down or hinged grating with or without vent arm including cutting and making good the walls and floors, cost of materials, labour, testing, complete as per specifications Specification No. KBS 11.1.10. (PWD SR 2015-16,P.No.86, SI.No.12.89)	Nos.	20.00				20.00
30.00	Maintenance for 3rd Year: KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings complete as per specifications. Case-III: Triple row for three utility services. (PWD SR 2015-16, SI.No.24.36)	Rmt	1	20.00			20.00
31.00	Maintenance for 3rd Year: Providing and laying Dia 200mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5, Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7. The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years. (Market Rate)		1	150			150.00
32.00	Maintenance for 3rd Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5, Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7. The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years. (Market Rate)		1	100			100.00
33.00	Maintenance for 3rd Year: Providing and Fixixng Spacers for Power Ducts of size 225 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20				20.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
34.00	Maintenance for 3rd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20				20.00
35.00	Maintenance for 3rd Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lubricant inner layer for ICT fibre cables comforming to ASTMF 2160 and /or equivalent indian standard and conveying to work site including loading and unloading at both destination and rolling,lowering into trenches,laying true to line and jointing of pipe etc.Complete. (Market Rate)	Rmt	1	40			40.00
36.00	Maintenance for 3rd Year: Supplying and Application charges required for stamping the freshly laid new concrete (Concrete rate is not included in this item) including finishing and colouring the top surface accurately to the required level, shape and size using approved colour shade and staping it using approved stamp pattern and antiquitting it on top with approved colour. Sealing entire area with concrete sealer.		1	100	2		200.00
37.00	Maintenance for 3rd Year: Providing and laying heavy duty cobble stones 75mm thick, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 30mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. (Page No 101, SI No: 14.7)	Sqm	1.00	50	1.5		75.00
38.00	Maintenance for 3rd Year: KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No. 507 -using 100/120 TPH capacity H.M.P. with sensor paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 16-17,S.I.No.21.17.1,Page No.163)	Cum	2.00	2.5	8	0.15	6.00
39.00	Maintenance for 3rd Year: KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-40 Bitumen	Cum	2.00	2.5	8	0.04	1.60
40.00	Maintenance for 3rd Year: KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications		50.00				50.00
41.00	Maintenance for 3rd Year: Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be level, uniform and free from streak and holes complete as per specifications.MORTH specification No.803 (Page No 192, SI No : 24.57)	Sam	1.00	4000	0.15		600.00
42.00	Maintenance for 3rd Year: Operation and Maintenance for eToilets Stainless Steel Public Model as specified in Road and Other works BOQ Item No.45.	Nos	3.00				3.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
43.00	Maintenance for 3rd Year: Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	2.00				2.00
44.00	Maintenance for 3rd Year: Providing and fixing of railing as detail design in MS HOLLOW SECTION and bars (shop drawing to be approved), with vertical support of 0.9m @2.2mc/c, all complete to the satisfaction of the Landscape architect. (Non SOR Item)	MT	1.00	0.1			0.10
45.00	Maintenance for 3rd Year: Excavation and removal of silt and silt mixed with sand in slussy condition from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with lead upto 50 m and all lifts. For Desilting of drains and grit chambers including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-in-charge.		2.00	7250	0.7	0.1	1015.00
46.00	Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Earth	Cum	1.00	200			200.00
47.00	Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Debris	Cum	1.00	70			70.00
	Electrical Works						
48.00	Maintenance for 3rd Year: Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required (Delhi analysis of rates E & M 2016, item 12.42, pg 395))	Nos.	1				1.00
49.00	Maintenance for 3rd Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with oor opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 m pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 155 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5)	Nos.	1				1.00
50.00	Maintenance for 3rd Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 4 pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No.5.14.2)	Nos.	1				1.00
51.00	Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5)	Nos.	1				1.00
52.00	Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2)	Nos.	1				1.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
53.00	Maintenance for 3rd Year: Painting of Existing street light pole after scrapping the old paint and painted with suitable colour enamel including coping/footing of the pole8mtr and above street light pole (Ref Electrical SOR SI No.16.28.3)	Nos.	242.00				242.00
54.00	Maintenance for 2nd Year: Supply, installation, testing and commissioning of outdoor junction box for mounting MCB/Contactors with all required accessories and componenets	Nos.	1.00				1.00
55.00	Maintenance for 2nd Year: Supply and fixing of miniature circuit breaker on exisiting board using necessasary fixing material and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10 KA complete wiring as required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5)	Nos.	1.00				1.00
	LT Cable Maintenance for 3rd Year:						
56.00	Supplying of 1.1 kV LT cable having aluminium conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)	m	1	60.00			60.00
57.00	Maintenance for 3rd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible copper with low conductor conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insulation and sheathed suitable for working voltage up to 1100 V as per IS-694:1990 and conforming to GTP of Group A. 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	m	1	10.00			10.00
58.00	Maintenance for 3rd Year: Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6)	Nos	10				10.00
59.00	Maintenance for 3rd Year: Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 2.5 sq. mm copper conductor (Ref Electrical SOR SI No.7.21.2)	Nos	8				8.00
60.00	Earthing system Maintenance for 3rd Year: Chemical Earthing for grounding,conduits,IC cut outs and otherequipmentson the mter boardby using copper /SS rod with earth enhancing backfill compound which is non corrosive ,thermally,conductive,potential,to permissible,limits,superior,fault,conductive capacity,non toxic,weather resistance and capable of achieving ohmic value less than one ohm (Ref Electrical SOR Pg.No.64,SI No.7.23.6)	Kit	1				1.00
61.00	Maintenance for 3rd Year: Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3)	Rmt	1	50			50.00
	Landcaping Works SOIL MIXES and Ground Preparation						
62.00	Maintenance for 3rd Year: Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item)	Cum	1	20	0.5	0.15	1.50
63.00	Maintenance for 3rd Year: KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)	Cum	1	15	0.5	0.1	0.75

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
64.00	Maintenance for 3rd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77)		1	40	0.5	0.1	2.00
65.00	Maintenance for 3rd Year: Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)	Cum	1	40	0.5	0.1	2.00
	Soil preparation of Lawn						
66.00	Maintenance for 3rd Year: KSRRB M300-3.Making lawns including ploughing and breaking of clod,removal of rubbish,dressing and supplying doobs grass roots and planting at 15 cm apart,including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications. MORTH Specification No.307 (KSRRB 19.80)	Sqm	1.00	382.19			382.19
	TURF						
67.00	Maintenance for 3rd Year: ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	1	5	0.6		3.00
	IRRIGATION						
68.00	Maintenance for 3rd Year: Watering with tanker to landscape area and plants for one year	Year	1.00				1.00
69.00	Maintenance for 3rd Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees, sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item)	Sqm	1	5	0.6		3.00

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 7.3 R.A. For Maintenance of 3rd Year - DPR 5

	Maintenance for 3rd Year:		and the street	
	Taking out existing CC interlocking paver blocks from footpath/			
1	rubbish etc., disposal of unserviceable material to the dumping			
	made separately and stacking of serviceable material within	50 metre	lead as per	direction of
	Engineer-in-Charge.(RA attached)			
	Basic rate		68.16	
	Maintenance- 3rd year escalation of 12%		8.18	
	,	Rate	76.34	Sqm
	Maintenance for 3rd Year:	1		
	KSRRB M200.Dismantling of cement concrete pavement by m	echanical	means using	pueumati
	tools,breaking to pieces not exceeding 0.02 cum in volume and			
2	and disposal of dismantled material stacking serviceble and			
2	complete as per specifications.MORTH specification No.202.(Inc			
	· · · · · · · · · · · · · · · · · · ·	luding trai	isporting char	ges,ioadini
	and unloading for lead 5km-Extra)			
	(Page No 138,SI No : 18.47)	1	000	
	Basic rate		899	
	Maintenance- 3rd year escalation of 12%		107.88	
	Add 10% For area weightage (Mangalore City)		100.69	
		Rate	1107.57	Cum
	Maintenance for 3rd Year:			
	KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M	//200-26. D	ismantling Ke	rb stone by
3	Manual means and disposal of dismantled materials with all lifts a			
	specifications.MORTH Specification No.202.	•		
	(Page No.139,S.I.No.18.49)			
	Basic rate		12.00	
	Maintenance- 3rd year escalation of 12%		1.44	
	Add 10% For area weightage (Mangalore City)		1.34	
	/ tad 10701 of area weightage (wangalore oity)	Rate	14.78	Rmt
		itate	14.70	131114
	Maintenance for 3rd Year:			
	KSRRB M200-13.1. Dismantling of existing structures like culvert	c bridge	rotaining wall	c and other
		-	-	
	structure comprising of masonry, cement concrete, wood wor			•
4	scaffolding wherever necessary, sorting the dismantled material,	•		
	and stacking the serviceable material with all lifts complete as po	•	•	
	Means. A. Cement Concrete Grade M-15 &M-20. MORTH Spec	cification in	10. 202 (KPW	D SOR 16
	17,18.20,Page No.137)			
	Basic rate		390	
	Maintenance- 3rd year escalation of 12%		46.8	
	Add 10% For area weightage (Mangalore City)		43.68	
		Rate	480.48	Cum
		110.00	100110	
	Maintenance for 3rd Year:	1		
	KSRRB M200-12.1. Dismantling of existing structures like culvert	e bridaee	retaining wall	e and othe
	structure comprising of masonary, cement concrete, woodwor	•	•	
F	· · · · · · · · · · · · · · · · · · ·			•
5	scaffolding wherever necessary, sorting the dismantled material,			ole materia
	and stacking the serviceable material with all lifts complete as per	specificati	ions.	
	i)Dismantaling Brick/Tile work B.In Cement mortar			
	(Page No 137,Sl No : 18.23)	, 		
	Basic rate		351	
	Maintenance- 3rd year escalation of 12%		42.12	
	Add 10% For area weightage		00.04	
_	<u> </u>	<u> </u>	39.31	
	The state of the s	Rate	432.43	Cum
		Rate		Cum

	Maintenance for 3rd Year:			
	KSRRB M300-14. Excavation for roadwork in all types of soil with			
	capacity including cutting and loading in tippers,trimming bottom			
6	requirements of lines and grades and cross sections, and transpo	rting disp	oosal location	up to a lead
	of 1.00Km and complete as per specifications.	_		
	MORTH specification No.301(Including transporting charges, load	ing and ι	inloading for le	ead 5km)
	(Page No 143,SI No : 19.14)			
	Basic rate		41	
	Maintenance- 3rd year escalation of 12%		4.92	
	Add 10% For area weightage (Mangalore City)	<u> </u>	4.59	
		Rate	50.51	Cum
	Maintenance for 2rd Voor			
	Maintenance for 3rd Year: KSPR 2.4 : Pofilling available earth around pipe lines, cables in lay	rara not d	arranding 20a	a in danth
7	KSRB 2-4: Refilling available earth around pipe lines, cables in lay compacting each deposited layer by ramming after watering with			
′	including cost of all labour complete as per specifications.(KPWD			
	Including cost of all labour complete as per specimoations.(13, 142)	10-17,01	110.2.11,1 9.11	0.0)
	Basic rate		120	
	Maintenance- 3rd year escalation of 12%		14.4	
	Add 10% For area weightage (Mangalore City)		13.44	
	Add 10701 of area weightage (mangalore ett)	Rate	147.84	Cum
				-
	Maintenance for 3rd Year:		1	
	KSRRB 300-Compaction KSRRB 300-58. Compaction of original	ground w	ith maximum o	of 6 passes
8	of 8 to 10 tonnes power roller including filling in depression occurr			
	labour, HOM of machinery complete as per specifications. MORTH			
	No.19.64,Pg. No.149)	· ·	•	•
	Basic rate		6	
	Maintenance- 3rd year escalation of 12%		0.72	
	Add 10% For area weightage (Mangalore City)		0.67	
		Rate	7.39	Sqm
	Maintenance for 3rd Year:	5	· 145 One de	101
	KSRB 4-1.6; Providing and laying in position plain cement concr			
	@ 240kgs, with 20mm and down size graded granite metal coars aggregtes @ 0.459cum, machine mixed, concrete laid in layers			
9	compacted, in foundation, plinth and cills, ncluding cost of all ma		•	
	curing complete as per specifications. Specification No. KBS 4.1,			
	2015-16)	4.4. (1 .13	U. 12, 1.1NU. 7.0	OLLANDOU
	Basic Rate	T	5000	
	Maintenance- 3rd year escalation of 12%		5900 708	
	Add 10% For area weightage (Mangalore City)		660.8	
	Add 10% For area weightage (mangalore Oity)	Rate	7268.80	Cum
		Nato	7 200.00	Cuiii
	Maintenance for 3rd Year:		1	
	KSRRB M400-6.1. Construction of granular sub-base by provi	dina clo	se graded cru	ished stone
	aggregates of granite / trap / basalt material, mixing in a mecha	•	•	
10	mixed material to work site, spreading in uniform layers with mot		•	•
	compacting with Plate compactor to achieve the desired density,	•	•	
	Plant Mix Method Close graded granular sub-base material as p	•	•	
			_	
	Basic Rate		2166	
	Maintenance- 3rd year escalation of 12%		259.92	
	Add 10% For area weightage (Mangalore City)		242.59	
	, ,	Rate	2668.51	Cum

	Maintenance for Ond Vann			
11	Maintenance for 3rd Year: KSRB 4.2.1 : Providing and laying in position reiforcement cemer OPC cement @340Kgs,with 20mm and down size graded granif cum with super plasticisers @3 liters confirming to IS 9103-1 mixed,concrete laid in layers not exceeding 15cms thick, vibrate footings, pedastals, retaining walls,return walls,walls (any thick columnspillars, posts, struts, buttresses, bed blocks,anchor block labour,HOM of machinery,curing,complete but excluding cost of re (Page No 13,SI No : 4.10) Basic Rate	te metal 1999 rea ted for a ness) inc cks & plir	coarse aggreg firmed -2008 Il works in fou luding attache onths etc.,Includ	gate @ 0.47 at machine undation for ed pilasters, ding cost of
	Maintenance- 3rd year escalation of 12%		743.76	
	•			
	Add 10% For area weightage (Mangalore City)	Doto	694.18	Cum
		Rate	7635.94	Cum
	Maintenance for 3rd Year:			
12	KSRB 4.6.1 Providing and removing centering, shuttering, strut formwork for foundations, footings, bases of columns for ma materials, labour complete as per specifications. Specification No. KSB 4.6.2 (Page No 15, SI No : 4.28)	•	. •	
	Basic Rate		263	
-	Maintenance- 3rd year escalation of 12%		31.56	
	Add 10% For area weightage (Mangalore City)		29.46	
	That 10701 of area weightage (Mangalore etty)	Rate	324.02	Sam
	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work income.	•	324.02	Sqm
13	Maintenance for 3rd Year:	cluding /or weldir necessar materials	ng wherever re y complete as	quired,tying per design
13	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inconstraighting, cutting, bending, hooking, placing in position, lapping and with binding wire and anchoring to thr adjoing members wherever (laps, hooks and wastage shall not be measured and paid) cost of machinary complete as per specifications. Specification No. KBS4. do with TMT bars Fe500	cluding /or weldir necessar materials	ng wherever re y complete as ,labour,HOM c	quired,tying per design
13	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work incomplete straighting, cutting, bending, hooking, placing in position, lapping and with binding wire and anchoring to thr adjoing members wherever (laps, hooks and wastage shall not be measured and paid) cost of machinary complete as per specifications. Specification No. KBS4. do with TMT bars Fe500 Basic Rate	cluding /or weldir necessar materials	ng wherever re y complete as ,labour,HOM c	quired,tying per design
13	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work incomplete straighting, cutting, bending, hooking, placing in position, lapping and with binding wire and anchoring to thr adjoing members wherever (laps, hooks and wastage shall not be measured and paid) cost of machinary complete as per specifications. Specification No. KBS4. do with TMT bars Fe500 Basic Rate Maintenance- 3rd year escalation of 12%	cluding /or weldir necessar materials	ng wherever re y complete as ,labour,HOM c 70782 8493.84	quired,tying per design
13	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work incomplete straighting, cutting, bending, hooking, placing in position, lapping and with binding wire and anchoring to thr adjoing members wherever (laps, hooks and wastage shall not be measured and paid) cost of machinary complete as per specifications. Specification No. KBS4. do with TMT bars Fe500 Basic Rate	cluding /or weldir necessar materials 6.3.	ng wherever re y complete as ,labour,HOM c 70782 8493.84 7927.58	quired,tying per design of
13	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work incomplete straighting, cutting, bending, hooking, placing in position, lapping and with binding wire and anchoring to thr adjoing members wherever (laps, hooks and wastage shall not be measured and paid) cost of machinary complete as per specifications. Specification No. KBS4. do with TMT bars Fe500 Basic Rate Maintenance- 3rd year escalation of 12%	cluding /or weldir necessar materials	ng wherever re y complete as ,labour,HOM c 70782 8493.84	quired,tying per design
13	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work indestraighting, cutting, bending, hooking, placing in position, lapping and with binding wire and anchoring to thr adjoing members wherever (laps, hooks and wastage shall not be measured and paid) cost of machinary complete as per specifications. Specification No. KBS4. do with TMT bars Fe500 Basic Rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Const material Gravel/Murrum with all lifts & leads, transporting to site, spand compacted to meet requirement of Table No. 300-2 complete cost of earth, watering charges & compaction by vibratory rollercor of proctors density) MORTH Specification No. 305	cluding /or weldir necessar materials 6.3. Rate ruction of breading, as per sp	70782 8493.84 7927.58 87203.42 If sub-grade wirgrading to requestions (in by vibratory ro	quired,tying per design of MT th approved juired slope including
	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work indistraighting, cutting, bending, hooking, placing in position, lapping and with binding wire and anchoring to thr adjoing members wherever (laps, hooks and wastage shall not be measured and paid) cost of machinary complete as per specifications. Specification No. KBS4. do with TMT bars Fe500 Basic Rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Const material Gravel/Murrum with all lifts & leads, transporting to site, spand compacted to meet requirement of Table No. 300-2 complete cost of earth, watering charges & compaction by vibratory rollercor of proctors density) MORTH Specification No. 305 Basic Rate	cluding /or weldir necessar materials 6.3. Rate ruction of breading, as per sp	70782 8493.84 7927.58 87203.42 f sub-grade wir grading to requestions (in by vibratory ro	quired,tying per design of MT th approved juired slope including
	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work indistraighting, cutting, bending, hooking, placing in position, lapping and with binding wire and anchoring to thr adjoing members wherever (laps, hooks and wastage shall not be measured and paid) cost of machinary complete as per specifications. Specification No. KBS4. do with TMT bars Fe500 Basic Rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Const material Gravel/Murrum with all lifts & leads, transporting to site, spand compacted to meet requirement of Table No. 300-2 complete cost of earth, watering charges & compaction by vibratory rollercor of proctors density) MORTH Specification No. 305 Basic Rate Maintenance- 3rd year escalation of 12%	cluding /or weldir necessar materials 6.3. Rate ruction of breading, as per sp	70782 8493.84 7927.58 87203.42 If sub-grade wirgrading to requestions (in by vibratory ro	quired,tying per design of MT th approved puired slope including
	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work ind straighting, cutting, bending, hooking, placing in position, lapping and with binding wire and anchoring to thr adjoing members wherever (laps, hooks and wastage shall not be measured and paid) cost of machinary complete as per specifications. Specification No. KBS4. do with TMT bars Fe500 Basic Rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Const material Gravel/Murrum with all lifts & leads, transporting to site, spand compacted to meet requirement of Table No. 300-2 complete cost of earth, watering charges & compaction by vibratory rollercor of proctors density) MORTH Specification No. 305 Basic Rate Maintenance- 3rd year escalation of 12% Add 20km lead (17.4 KSRRB M100-4.1-Cost of haulage	cluding /or weldir necessar materials 6.3. Rate ruction of breading, as per sp	70782 8493.84 7927.58 87203.42 f sub-grade wir grading to requestions (in by vibratory ro	quired,tying per design of MT th approved puired slope including
	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and with binding wire and anchoring to thr adjoing members wherever (laps, hooks and wastage shall not be measured and paid) cost of machinary complete as per specifications. Specification No. KBS4. do with TMT bars Fe500 Basic Rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Const material Gravel/Murrum with all lifts & leads, transporting to site, spand compacted to meet requirement of Table No. 300-2 complete cost of earth, watering charges & compaction by vibratory rollercor of proctors density) MORTH Specification No. 305 Basic Rate Maintenance- 3rd year escalation of 12% Add 20km lead (17.4 KSRRB M100-4.1-Cost of haulage excluding loading and unloading MORTH-100/Chapter 1-case 1-	cluding /or weldir necessar materials 6.3. Rate ruction of breading, as per sp	70782 8493.84 7927.58 87203.42 If sub-grade wir grading to requestions (ir by vibratory ro	quired,tying per design of MT th approved juired slope including
	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work indistraighting, cutting, bending, hooking, placing in position, lapping and with binding wire and anchoring to thr adjoing members wherever (laps, hooks and wastage shall not be measured and paid) cost of machinary complete as per specifications. Specification No. KBS4. do with TMT bars Fe500 Basic Rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Const material Gravel/Murrum with all lifts & leads, transporting to site, sy and compacted to meet requirement of Table No. 300-2 complete cost of earth, watering charges & compaction by vibratory rollercor of proctors density) MORTH Specification No. 305 Basic Rate Maintenance- 3rd year escalation of 12% Add 20km lead (17.4 KSRRB M100-4.1-Cost of haulage excluding loading and unloading MORTH-100/Chapter 1-case 1-Surface Road)=2.5 Rs/ Tkm x 1.28 T x 20km	cluding /or weldir necessar materials 6.3. Rate ruction of breading, as per sp	70782 8493.84 7927.58 87203.42 f sub-grade wir grading to requestions (in by vibratory ro	quired,tying per design of MT th approved juired slope including
	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work indicated straighting, cutting, bending, hooking, placing in position, lapping and with binding wire and anchoring to thr adjoing members wherever (laps, hooks and wastage shall not be measured and paid) cost of machinary complete as per specifications. Specification No. KBS4. do with TMT bars Fe500 Basic Rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Const material Gravel/Murrum with all lifts & leads, transporting to site, spand compacted to meet requirement of Table No. 300-2 complete cost of earth, watering charges & compaction by vibratory rollercor of proctors density) MORTH Specification No. 305 Basic Rate Maintenance- 3rd year escalation of 12% Add 20km lead (17.4 KSRRB M100-4.1-Cost of haulage excluding loading and unloading MORTH-100/Chapter 1-case 1-Surface Road)=2.5 Rs/ Tkm x 1.28 T x 20km Sub Total	cluding /or weldir necessar materials 6.3. Rate ruction of breading, as per sp	70782 8493.84 7927.58 87203.42 f sub-grade wir grading to requesifications (in by vibratory ro 513 61.56 51.2 625.76	quired,tying per design of MT th approved juired slope including
	Maintenance for 3rd Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work indistraighting, cutting, bending, hooking, placing in position, lapping and with binding wire and anchoring to thr adjoing members wherever (laps, hooks and wastage shall not be measured and paid) cost of machinary complete as per specifications. Specification No. KBS4. do with TMT bars Fe500 Basic Rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Const material Gravel/Murrum with all lifts & leads, transporting to site, sy and compacted to meet requirement of Table No. 300-2 complete cost of earth, watering charges & compaction by vibratory rollercor of proctors density) MORTH Specification No. 305 Basic Rate Maintenance- 3rd year escalation of 12% Add 20km lead (17.4 KSRRB M100-4.1-Cost of haulage excluding loading and unloading MORTH-100/Chapter 1-case 1-Surface Road)=2.5 Rs/ Tkm x 1.28 T x 20km	cluding /or weldir necessar materials 6.3. Rate ruction of breading, as per sp	70782 8493.84 7927.58 87203.42 f sub-grade wir grading to requestions (in by vibratory ro	quired,tying per design of MT th approved juired slope including

15	Maintenance for 3rd Year: KSRRB M600-1.Construction of dry lean cement concrete mi@160Kgs,with 25mm and down size graded granite/trap/basalt mand fine aggregate @ 0.58cum Sub-base over prepared sub grace confirming to IS:383) aggregate cement ration not to excee 15:1. to be as per Table 600-1, cement content to be determined during strength not to be less than 10Mpa at 7 days,mixed in a batching paver with electronic sensor,compacting with 8-10 tonnes double curing complete as per specifications.Morth specification No.601 (Page No 176,SI No : 22.1)	netal coa de with (d Aggrega g trail len plant,tra	rse aggregate coarse and fin te gradation a gth constructi nsported to si bratory roller,t	e at 0.86cum ne aggregate fter blending on, concrete te,laid with a
	Basic Rate		4048	
	Maintenance- 3rd year escalation of 12%		485.76	
	Add 10% For area weightage (Mangalore City)		453.38	
		Rate	4987.14	Cum
16	Maintenance for 3rd Year: KSRRB M600-1.Construction of dry lean cement concrete mi@160Kgs,with 25mm and down size graded granite/trap/basalt mand fine aggregate @ 0.58cum Sub-base over prepared sub grade confirming to IS:383) aggregate cement ration not to excee 15:1. to be as per Table 600-1, cement content to be determined during strength not to be less than 10Mpa at 7 days,mixed in a batching laid and compacting with palte compactor,finishing and curing cospecification No.601 (RA attached)	netal coa de with (d Aggrega g trail len g plant,tra	rse aggregate coarse and fir te gradation a gth construction ansported to see the per specific	e at 0.86cum ne aggregate fter blending on, concrete site,Manually
	Basic Rate		3680	
	Maintenance- 3rd year escalation of 12%		441.6	
	Add 10% For area weightage (Mangalore City)		412.16	
		Rate	4533.76	Cum
17	KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain prepared sub base with 25mm and down size graded gran superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed conforming to IS:383) mixed in a batching and mixing plant as per to site,laid with a fixed form paver spread,compacted and finished provision of contraction, expansio, construction and longituding chrges, joints filler, separation memberane, sealent primer, joints sat 4.5m intervals, tie rod, admixtures as approved, curing compounder drawing complete as per sprcifications MORTH specification cum Cement, C.A, 0.67 cum F.A. 044Cum (Page No 176, SI No: 22.2.2)	ite meta 2008(Co er approv in a cor nal joints ealant, d und,finish	al coarse agg parse and fin- red mix design ntinuos operat s,including gro ebonding strip ing to lines ar 2.do with M40	gregate with e aggregate n,transported ion including bove cutting o, dowel bars and grades as
	Basic Rate		5765	
	Maintenance- 3rd year escalation of 12%		691.8	
	Add 10% For area weightage (Mangalore City)		645.68	
		Rate	7102.48	Cum
18	Maintenance for 3rd Year: Providing and placing joint sealant compound of cold polysulphide groove to required width, sand blasting the groove face if recomme cleaning the groove with air compressor, insertion of debonding st if the sealant manufacturer recommends and pouring the sealar manpower (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer	ended by rip, primi	the sealant m ng the sides o mplete includ	nanufacturer, of the sealant
	Sr.No.2		115	
	Maintenance- 3rd year escalation of 10%		11.5	
		Rate	126.5	Rmt

	T			
	Maintenance for 3rd Year:			
	KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar			· ·
19	KSRRB M3000-8 Repairs of spalled joints grooves of contractions.			
	expansion joints in concrete pavement using epoxy mo	rtar con	crete comple	ete as per
	specifications.Morth specification No.3005.1			
	(Page No 257,SI No : 35.8)	Т		
_	Basic Rate		331	
_	Maintenance- 3rd year escalation of 12%		39.72	
_	Add 10% For area weightage (Mangalore City)	<u> </u>	37.07	
		Rate	407.79	Rmt
	BALL COLORS CON OUR MARKET			
	Maintenance for 3rd Year: Drawiding and laving at ar poor ground level factors, made kerb at	of NA	00 ~=ada aam	- nt nonoroto
	Providing and laying at or near ground level factory made kerb sto		•	
	in position to the required line, level and curvature, jointed with		•	
	coarse sand), including making joints with or without grooves (to give a shall not to more than 5mm), including making draining or		•	•
20	curve shall not to more than 5mm), including making drainage of	•	•	•
	etc. as per direction of Engineer-in-charge (length of finished k	cerb eagi	ng shall be ii	neasurea ioi
	payment).	.1		
	(Precast C.C. kerb stone shall be approved by Engineer-in-charge	!).		
<u></u>	(RA Attached)			
	Rate Arrived as per Rate analysis	_		
	Basic Rate		17708.82	
	Maintenance- 3rd year escalation of 12%		2125.06	
	Add 10% For area weightage (Mangalore City)		1983.39	
		Rate	21817.27	Cum
		<u> </u>		
	Jointed with CM 1:3 and finishing cutting, including cost of a		als,labour,hire	charges of
	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3)		als,labour,hire	charges of
	machinery,loading,unloading,lead and lift,transportation etc.,comp		als,labour,hire 15481.61	charges of
	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12%		15481.61 1857.79	charges of
	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,Sl No : 5.3) Basic rate	lete	15481.61 1857.79 1733.94	
	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12%		15481.61 1857.79	charges of
	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage	lete	15481.61 1857.79 1733.94	
	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year:	Rate	15481.61 1857.79 1733.94 19073.34	Cum
	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longituding)	Rate al gutter)	15481.61 1857.79 1733.94 19073.34 as per the di	Cum
22	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longitudin out of CC 1:2:4 and jointed with CM 1:3 and finishin	Rate al gutter) g cutting	15481.61 1857.79 1733.94 19073.34 as per the dig, including	Cum rawing,made cost of all
22	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,Sl No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longitudinout of CC 1:2:4 and jointed with CM 1:3 and finishin materials,labour,hire charges of machinery,loading,unloa	Rate al gutter) g cutting	15481.61 1857.79 1733.94 19073.34 as per the dig, including	Cum rawing,made cost of all
22	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longituding out of CC 1:2:4 and jointed with CM 1:3 and finishin materials,labour,hire charges of machinery,loading,unload etc.,complete	Rate al gutter) g cutting	15481.61 1857.79 1733.94 19073.34 as per the dig, including	Cum rawing,made cost of all
22	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longituding out of CC 1:2:4 and jointed with CM 1:3 and finishing materials,labour,hire charges of machinery,loading,unload etc.,complete (Page No 25,SI No : 5.3)	Rate al gutter) g cutting	15481.61 1857.79 1733.94 19073.34 as per the dig, including and lift,tr	Cum rawing,made cost of all
22	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longituding out of CC 1:2:4 and jointed with CM 1:3 and finishin materials,labour,hire charges of machinery,loading,unload etc.,complete (Page No 25,SI No : 5.3) Basic rate	Rate al gutter) g cutting	15481.61 1857.79 1733.94 19073.34 as per the dig, including and lift,tr	Cum rawing,made cost of all
22	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longituding out of CC 1:2:4 and jointed with CM 1:3 and finishin materials,labour,hire charges of machinery,loading,unload etc.,complete (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12%	Rate al gutter) g cutting	15481.61 1857.79 1733.94 19073.34 as per the dig, including and lift,tr	Cum rawing,made
22	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longituding out of CC 1:2:4 and jointed with CM 1:3 and finishin materials,labour,hire charges of machinery,loading,unload etc.,complete (Page No 25,SI No : 5.3) Basic rate	Rate al gutter) g cutting	15481.61 1857.79 1733.94 19073.34 as per the dig, including and lift,tr	Cum rawing,made cost of all ransportation
22	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longituding out of CC 1:2:4 and jointed with CM 1:3 and finishin materials,labour,hire charges of machinery,loading,unload etc.,complete (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12%	Rate al gutter) g cutting	15481.61 1857.79 1733.94 19073.34 as per the dig, including and lift,tr	Cum rawing,made cost of all
22	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longituding out of CC 1:2:4 and jointed with CM 1:3 and finishing materials,labour,hire charges of machinery,loading,unload etc.,complete (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage	Rate al gutter) g cutting	15481.61 1857.79 1733.94 19073.34 as per the dig, including and lift,tr	Cum rawing,made cost of all ransportation
22	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longitudin out of CC 1:2:4 and jointed with CM 1:3 and finishin materials,labour,hire charges of machinery,loading,unload etc.,complete (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage	Rate al gutter) g cutting ling,lead Rate	15481.61 1857.79 1733.94 19073.34 as per the dig, including and lift,tr 15481.61 1857.79 1733.94 19073.34	Cum rawing,made cost of al ransportation
	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longitudin out of CC 1:2:4 and jointed with CM 1:3 and finishin materials,labour,hire charges of machinery,loading,unload etc.,complete (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Removing and resetting of kerb stones. including cost of a	Rate al gutter) g cutting ling,lead Rate	15481.61 1857.79 1733.94 19073.34 as per the dig, including and lift,tr 15481.61 1857.79 1733.94 19073.34	Cum rawing,made cost of all ransportation
22	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longituding out of CC 1:2:4 and jointed with CM 1:3 and finishing materials,labour,hire charges of machinery,loading,unload etc.,complete (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Removing and resetting of kerb stones. including cost of a machineries with all lead and lifts, labour charges including impositions.	Rate al gutter) g cutting ling,lead Rate all mater blementate	15481.61 1857.79 1733.94 19073.34 as per the dig, including and lift,tr 15481.61 1857.79 1733.94 19073.34 ials, scaffoldition of Environ	Cum rawing,made cost of al ransportation
	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,Sl No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longituding out of CC 1:2:4 and jointed with CM 1:3 and finishin materials,labour,hire charges of machinery,loading,unload etc.,complete (Page No 25,Sl No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Removing and resetting of kerb stones. including cost of a machineries with all lead and lifts, labour charges including imp Social Safeguards & as per design, drawing, technical specificates.	Rate al gutter) g cutting ling,lead Rate all mater blementate	15481.61 1857.79 1733.94 19073.34 as per the dig, including and lift,tr 15481.61 1857.79 1733.94 19073.34 ials, scaffoldition of Environ	Cum rawing,made cost of al ransportation
	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,Sl No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longitudin out of CC 1:2:4 and jointed with CM 1:3 and finishin materials,labour,hire charges of machinery,loading,unload etc.,complete (Page No 25,Sl No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Removing and resetting of kerb stones. including cost of a machineries with all lead and lifts, labour charges including imp Social Safeguards & as per design, drawing, technical specificat charge.	Rate al gutter) g cutting ling,lead Rate all mater blementate	15481.61 1857.79 1733.94 19073.34 as per the dig, including and lift,tr 15481.61 1857.79 1733.94 19073.34 ials, scaffoldition of Environdirections of	Cum rawing,made cost of all ransportation
	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longituding out of CC 1:2:4 and jointed with CM 1:3 and finishin materials,labour,hire charges of machinery,loading,unload etc.,complete (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Removing and resetting of kerb stones. including cost of a machineries with all lead and lifts, labour charges including imp Social Safeguards & as per design, drawing, technical specificat charge. Basic rate	Rate al gutter) g cutting ling,lead Rate all mater blementate	15481.61 1857.79 1733.94 19073.34 as per the dig, including and lift,tr 15481.61 1857.79 1733.94 19073.34 ials, scaffoldiion of Enviror directions of	Cum rawing,made cost of all ransportation Cum ng HOM of nmental and
	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longituding out of CC 1:2:4 and jointed with CM 1:3 and finishing materials,labour,hire charges of machinery,loading,unload etc.,complete (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Removing and resetting of kerb stones. including cost of a machineries with all lead and lifts, labour charges including imp Social Safeguards & as per design, drawing, technical specificat charge. Basic rate Maintenance- 3rd year escalation of 12%	Rate al gutter) g cutting ling,lead Rate all mater blementate	15481.61 1857.79 1733.94 19073.34 as per the dig, including and lift,tr 15481.61 1857.79 1733.94 19073.34 ials, scaffoldition of Enviror directions of	Cum rawing,made cost of all ransportation Cum ng HOM of nmental and
	machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Providin and fixing pre cast solid concrete water table(longituding out of CC 1:2:4 and jointed with CM 1:3 and finishin materials,labour,hire charges of machinery,loading,unload etc.,complete (Page No 25,SI No : 5.3) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: Removing and resetting of kerb stones. including cost of a machineries with all lead and lifts, labour charges including imp Social Safeguards & as per design, drawing, technical specificat charge. Basic rate	Rate al gutter) g cutting ling,lead Rate all mater blementate	15481.61 1857.79 1733.94 19073.34 as per the dig, including and lift,tr 15481.61 1857.79 1733.94 19073.34 ials, scaffoldiion of Enviror directions of	Cum rawing,made cost of all ransportation Cum ng HOM of nmental and Engineer-in-

24				
24	Maintenance for 3rd Year: KSRRB 800-1. Painting two coats after filling the surface with	synthetic enam	nel naint in a	nnroved
74	shades on new plastered concrete surfaces, with materials, la	•	•	•
27	MORTH Chapter 8	bour complete	as per speci	ilcations.
	(Page No 182,SI No : 24.1)			
	Basic Rate		00	
			80	
	Maintenance- 3rd year escalation of 12%		9.6	
	Add 10% For area weightage (Mangalore City)		8.96	
		Rate	98.56	Sqm
	Maintenance for 3rd Year:			
25	P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame or	n Manhole for e	electrical duc	ting.
	As per Quotation			
	Basic Rate		10764	
	Discount 30%		-3229.2	
	Sub Total		7534.8	
	Fixing Charges @5%		753.48	
	Maintenance- 3rd year escalation of 12%	+	904.18	
	maintenance ora year coolaidilon or 1270	Rate	9192.46	Nos
		Nate	3132.40	1103.
	Maintenance for 3rd Year:			
	P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at	raised footpath	on SWD.	
26	(Rate analysis attached)	. s. coa rootpati		
	(Natio analysis allashod)			
	As you Overtaking			
	As per Quotation		7470.00	
	Basic Rate		7179.00	
			04505	
	Discount 30%		-2153.7	
	Sub Total		5025.3	
	Sub Total Fixing Charges @5%		5025.3 502.53	
	Sub Total		5025.3 502.53 603.04	
	Sub Total Fixing Charges @5%	Rate	5025.3 502.53	Nos.
	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12%	Rate	5025.3 502.53 603.04	Nos.
27	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year:		5025.3 502.53 603.04 6130.87	Nos.
27	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm		5025.3 502.53 603.04 6130.87	Nos.
27	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached)		5025.3 502.53 603.04 6130.87	Nos.
27	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation		5025.3 502.53 603.04 6130.87 ath.	Nos.
27	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate		5025.3 502.53 603.04 6130.87 ath.	Nos.
27	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30%		5025.3 502.53 603.04 6130.87 ath.	Nos.
27	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total		5025.3 502.53 603.04 6130.87 ath.	Nos.
27	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30%		5025.3 502.53 603.04 6130.87 ath.	Nos.
27	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total		5025.3 502.53 603.04 6130.87 ath. 7912.28 -2373.68 5538.6	Nos.
27	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5%		5025.3 502.53 603.04 6130.87 ath. 7912.28 -2373.68 5538.6 553.86 664.63	
27	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5%	at level footpa	5025.3 502.53 603.04 6130.87 ath. 7912.28 -2373.68 5538.6 553.86	
27	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12%	at level footpa	5025.3 502.53 603.04 6130.87 ath. 7912.28 -2373.68 5538.6 553.86 664.63	
27	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year:	at level footpa	5025.3 502.53 603.04 6130.87 ath. 7912.28 -2373.68 5538.6 553.86 664.63 6757.09	Nos.
	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipe	Rate	5025.3 502.53 603.04 6130.87 ath. 7912.28 -2373.68 5538.6 664.63 6757.09 red alignme	Nos.
	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipe specials and grade as indicated in drawings/design and hydra	Rate es to the requiaulically testing	5025.3 502.53 603.04 6130.87 ath. 7912.28 -2373.68 5538.6 553.86 664.63 6757.09 red alignme of the pipe	Nos. nts includi
27	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipe specials and grade as indicated in drawings/design and hydra shall include all jointing materials,testing apparatus and was	Rate es to the require aulically testing atter for testing	5025.3 502.53 603.04 6130.87 ath. 7912.28 -2373.68 5538.6 553.86 664.63 6757.09 red alignme of the pipe	Nos. nts includi
	Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipe specials and grade as indicated in drawings/design and hydra shall include all jointing materials,testing apparatus and watengineer in charge (page No.41,Item No.7,KUWSDB SOR 20)	Rate es to the require aulically testing atter for testing	5025.3 502.53 603.04 6130.87 oth. 7912.28 -2373.68 5538.6 553.86 664.63 6757.09 red alignme of the pipe of the	Nos. nts includi
	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipe specials and grade as indicated in drawings/design and hydra shall include all jointing materials,testing apparatus and watengineer in charge (page No.41,Item No.7,KUWSDB SOR 20 Basic Rate	Rate es to the require aulically testing atter for testing	5025.3 502.53 603.04 6130.87 ath. 7912.28 -2373.68 5538.6 553.86 664.63 6757.09 red alignme of the pipe etc as direct	Nos. nts includi
	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipe specials and grade as indicated in drawings/design and hydra shall include all jointing materials,testing apparatus and wa Engineer in charge (page No.41,Item No.7,KUWSDB SOR 20 Basic Rate Maintenance- 3rd year escalation of 12%	Rate es to the require aulically testing atter for testing	5025.3 502.53 603.04 6130.87 oth. 7912.28 -2373.68 5538.6 553.86 664.63 6757.09 red alignme of the pipe of the	Nos. nts includi
	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipe specials and grade as indicated in drawings/design and hydra shall include all jointing materials,testing apparatus and was Engineer in charge (page No.41,Item No.7,KUWSDB SOR 20 Basic Rate Maintenance- 3rd year escalation of 12% Add 10% on Labor Charges=Rs.47,For area weightage	Rate es to the require aulically testing atter for testing	5025.3 502.53 603.04 6130.87 ath. 7912.28 -2373.68 5538.6 553.86 664.63 6757.09 red alignme of the pipe etc as direct	Nos. nts includi
	Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipe specials and grade as indicated in drawings/design and hydra shall include all jointing materials,testing apparatus and wa Engineer in charge (page No.41,Item No.7,KUWSDB SOR 20 Basic Rate Maintenance- 3rd year escalation of 12%	Rate es to the require aulically testing atter for testing	5025.3 502.53 603.04 6130.87 ath. 7912.28 -2373.68 5538.6 553.86 664.63 6757.09 red alignme of the pipe etc as direct	Nos. nts includi

	Maintenance for 3rd Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100r screwed down or hinged grating with or without vent arm including	-	•	•
29	and floors, cost of materials, labour, testing, complete as per spec 11.1.10. (PWD SR 2015-16,P.No.86, SI.No.12.89)			
		T	920	
	Basic Rate Maintenance, 3rd year acceletion of 13%		830	
	Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City)		99.6 92.96	
	Add 10% For area weightage (mangalore Oity)	Rate	1022.56	Nos.
		Nato	1022.00	1403.
30	Maintenance for 3rd Year: KSRRB M800-29.3.Cable Duct Across the road KSRRB M800 reinforced cement concrete pipe duct, 300 mm dia, across the from drain to drain in cuts and toe of slope to toe of slope in fill ends, providing a minimum fill of granular material over top and 1997, bedded on a 0.3 m thick layer of granular material free of of pipe at least half dia of pipe subject to minimum450 mm in carioints to be made leak proof, invert level of duct to be above higher of water and dirt, all as per IRC: 98 - 1997 and approved drawing Case-III: Triple row for three utility services. (PWD SR 2015-16,SI.No.24.36) Basic Rate	road (new lls, construction sides of rock piece ase of do er than gr	w construction ructing head verting head verting RCC pipe as es, outer to outer to puble and triple ound level to pertine), extending valls at both per IRC:98- uter distance e row ducts, prevent entry
	Maintenance- 3rd year escalation of 12%		602.64	
	Add 10% For area weightage (Mangalore City)		562.46	
	ridd 1070 For area meigriage (mangarere eng)	Rate	6187.10	Rm
	Maintenance for 3rd Year: Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5, Deflection not greater than			•
31	Providing and laying Dia 200mm HDPE Electrical pipe Conduits	5% whe	n exposed to other physica	the normal
31	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5, Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7. The expected and accessories shall not be less than 50 years. (Market Rate)	5% whe	n exposed to other physica fe of HDPE p	the normal al properties
31	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5, Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7. The expected and accessories shall not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item	5% whe	n exposed to other physica	the normal al properties
31	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5, Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7. The expected and accessories shall not be less than 50 years. (Market Rate) Basic Rate	5% whe	n exposed to other physica fe of HDPE p	the normal al properties
31	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5, Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7. The expected and accessories shall not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123)	5% whe	en exposed to other physical fe of HDPE p	the normal al properties
31	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5, Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7. The expected and accessories shall not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123) Contractor Profit@10% Add 10% For area weightage (Mangalore City) Sub Total	5% whe	n exposed to other physica fe of HDPE p 1471.08 78 147.108	the normal al properties
31	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5, Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7. The expected and accessories shall not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123) Contractor Profit@10% Add 10% For area weightage (Mangalore City)	5% whe ure and service li	n exposed to other physical fe of HDPE p 1471.08 78 147.108 7.8 1703.988 204.48	the normal
31	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5, Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7. The expected and accessories shall not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123) Contractor Profit@10% Add 10% For area weightage (Mangalore City) Sub Total	5% whe	n exposed to other physical fe of HDPE p 1471.08 78 147.108 7.8 1703.988	the normal
31	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5, Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7. The expected and accessories shall not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123) Contractor Profit@10% Add 10% For area weightage (Mangalore City) Sub Total	5% whe ure and service li	n exposed to other physical fe of HDPE p 1471.08 78 147.108 7.8 1703.988 204.48 1908.47 core Lubrican exposed to other physical	the normal al properties ipe conduits Rm t inner layer the normal al properties
	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5,Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7.The expected and accessories shall not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Contractor Profit@10% Add 10% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5,Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7.The expected and accessories shall not be less than 50 years.(Market Rate)	5% whe ure and service li	n exposed to other physical fe of HDPE p 1471.08 78 147.108 7.8 1703.988 204.48 1908.47 core Lubrican en exposed to other physical fe of HDPE p	the normal al properties ipe conduits Rm t inner layer the normal al properties
	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5,Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7.The expected and accessories shall not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Contractor Profit@10% Add 10% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5,Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7.The expected and accessories shall not be less than 50 years.(Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item	5% whe ure and service li	n exposed to other physical fe of HDPE p 1471.08 78 147.108 7.8 1703.988 204.48 1908.47 core Lubrican exposed to other physical	the normal al properties ipe conduits Rm t inner layer the normal al properties
	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5,Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7.The expected and accessories shall not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Contractor Profit@10% Add 10% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5,Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7.The expected and accessories shall not be less than 50 years.(Market Rate) Basic Rate	5% whe ure and service li	n exposed to other physical fe of HDPE p 1471.08 78 147.108 7.8 1703.988 204.48 1908.47 core Lubrican en exposed to other physical fe of HDPE p 996.3 66	the normal al properties ipe conduits Rm t inner layer the normal al properties
	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5,Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7.The expected and accessories shall not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Contractor Profit@10% Add 10% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5,Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7.The expected and accessories shall not be less than 50 years.(Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123)	5% whe ure and service li	n exposed to other physical fe of HDPE p 1471.08 78 147.108 7.8 1703.988 204.48 1908.47 core Lubrican exposed to other physical fe of HDPE p	the normal al properties ipe conduits Rm t inner layer the normal al properties
	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5,Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7.The expected and accessories shall not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Contractor Profit@10% Add 10% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5,Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7.The expected and accessories shall not be less than 50 years.(Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Contractor Profit@10%	5% whe ure and service li	n exposed to other physical fe of HDPE p 1471.08 78 1471.08 7.8 1703.988 204.48 1908.47 core Lubrican exposed to other physical fe of HDPE p 996.3 66 99.63	the normal al properties ipe conduits Rm t inner layer the normal al properties
	Providing and laying Dia 200mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5,Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7.The expected and accessories shall not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Contractor Profit@10% Add 10% For area weightage (Mangalore City) Sub Total Maintenance for 3rd Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with ribs, dimensional ratio of 13.5,Deflection not greater than operating temparature 90°C under the over burden soil presu comforming to ASTMF 2160 and /or NEMA TC7.The expected and accessories shall not be less than 50 years.(Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123) Contractor Profit@10% Add 10% For area weightage (Mangalore City)	5% whe ure and service li	n exposed to other physical fe of HDPE p 1471.08 78 147.108 7.8 1703.988 204.48 1908.47 core Lubrican exposed to other physical fe of HDPE p 996.3 66 99.63 66	the normal al properties ipe conduits Rm t inner layer the normal al properties

33				
33	Maintenance for 3rd Year: Providing and Fixixng Spacers for Power Ducts of size 225 mm,	to he n	laced at an int	arval of 1
	meter. Spacers shall be made of ABS raw material.	to be p	iaceu at an int	Cival Oi i
	(Market rate)			
	, , , , , , , , , , , , , , , , , , , ,		1002	
	Basic Rate Maintenance 2rd year application of 129/		1003	
	Maintenance- 3rd year escalation of 12%		80.24	
	Contractor Profit@10%	Doto	100.3	Nos.
		Rate	1183.54	NOS.
	Maintenance for 3rd Year:			
	Providing and Fixixng Spacers for Power Ducts of size 160 mm,	to he n	laced at an int	arval of 1
34	meter. Spacers shall be made of ABS raw material.	to be p	acca at an int	Cival Oi i
	(Market rate)			
	Basic Rate		1947	
	Maintenance- 3rd year escalation of 12%		233.64	
	Contractor Profit@10%		194.7	
		Rate	2375.34	Nos.
	Maintenance for 3rd Year:	1	<u> </u>	
	Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lubric	cant inne	laver for ICT	fibre cable
	comforming to ASTMF 2160 and /or equivalent indian standard a			
35	loading and unloading at both destination and rolling, lowering in			
	jointing of pipe etc.Complete.		ioo,iayiiig ii ao	10 mile ai
	(Market Rate)			
	Basic Rate		561.7	
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		301.7	
	No.50,Pg.No.123)		36	
	Contractor Profit@10%		56.17	
	Add 12% For area weightage (Mangalore City)		3.6	
	Sub Total		657.47	
	Maintenance- 3rd year escalation of 12%			
			78.91	
	Wallicharioe ord year escalation of 1270	Rate	78.9 736.37	Rm
	Warnerhande ord year escalation of 1270	Rate	78.9 736.37	Rm
		Rate		Rm
	Maintenance for 3rd Year:		736.37	
36	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh	ly laid ne	736.37 w concrete (Co	oncrete ra
36	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top	ly laid ne o surface	736.37 w concrete (Co	encrete rat
36	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it u	ly laid ne p surface sing appl	w concrete (Co accurately to t roved stamp pa	encrete rat
36	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it u antiquitting it on top with approved colour. Sealing entire area with	ly laid ne p surface sing appl	w concrete (Co accurately to t roved stamp pa sealer.	encrete rat
36	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it u antiquitting it on top with approved colour. Sealing entire area with Basic rate	ly laid ne p surface sing appl	w concrete (Co accurately to t roved stamp pa sealer. 624.00	encrete rat
36	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it u antiquitting it on top with approved colour. Sealing entire area with Basic rate Maintenance- 3rd year escalation of 12%	ly laid ne p surface sing appl	w concrete (Co accurately to t roved stamp pa sealer. 624.00 74.88	encrete rat
36	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it u antiquitting it on top with approved colour. Sealing entire area with Basic rate	ly laid ne p surface sing appl concrete	w concrete (Co accurately to t roved stamp pa sealer. 624.00 74.88 69.89	encrete rat he require attern and
36	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it u antiquitting it on top with approved colour. Sealing entire area with Basic rate Maintenance- 3rd year escalation of 12%	ly laid ne p surface sing appl	w concrete (Co accurately to t roved stamp pa sealer. 624.00 74.88	encrete rat
36	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it u antiquitting it on top with approved colour. Sealing entire area with Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City)	ly laid ne p surface sing appl concrete	w concrete (Co accurately to t roved stamp pa sealer. 624.00 74.88 69.89	oncrete ra he require attern and
36	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it us antiquitting it on top with approved colour. Sealing entire area with Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year:	ly laid ne o surface sing appr concrete Rate	w concrete (Co accurately to troved stamp pa sealer. 624.00 74.88 69.89 768.77	oncrete ra he require attern and Sqm
36	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it us antiquitting it on top with approved colour. Sealing entire area with Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: Providing and laying heavy duty cobble stones 75mm thick, use	ly laid ne p surface sing appropriate concrete Rate sing cem	w concrete (Conaccurately to the roved stamp parasealer. 624.00 74.88 69.89 768.77 ment and course	oncrete ra the require attern and Sqm
36	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it us antiquitting it on top with approved colour. Sealing entire area with Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: Providing and laying heavy duty cobble stones 75mm thick, us manufacture of blocks of approved size, shape and colour with a	ly laid ne surface sing appropriete Rate	w concrete (Conaccurately to the roved stamp parsealer. 624.00 74.88 69.89 768.77 The sent and course compressive	se sand f
	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it us antiquitting it on top with approved colour. Sealing entire area with Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: Providing and laying heavy duty cobble stones 75mm thick, us manufacture of blocks of approved size, shape and colour with a 281 kg per sqm over 30mm thick sand bed (average thickness)	ly laid ne p surface sing appropriate Rate	w concrete (Co accurately to to roved stamp passealer. 624.00 74.88 69.89 768.77	Sqm se sand fatterniate vibrate
36	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it us antiquitting it on top with approved colour. Sealing entire area with Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: Providing and laying heavy duty cobble stones 75mm thick, us manufacture of blocks of approved size, shape and colour with a 281 kg per sqm over 30mm thick sand bed (average thickness) having 3 tons compaction force thereby forcing part of sand united to the stone of the sand united to th	ly laid ne p surface sing appropriet sing cem minimur and commenderneatl	w concrete (Co accurately to troved stamp pa sealer. 624.00 74.88 69.89 768.77 ment and course in compressive spacting with plan to come up	Sqm se sand for strength atternate vibratin between
	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it un antiquitting it on top with approved colour. Sealing entire area with Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: Providing and laying heavy duty cobble stones 75mm thick, using an antiquiting and laying heavy duty cobble stones 75mm thick, using an antiquiting and laying heavy duty cobble stones 75mm thick, using a top some stone of approved size, shape and colour with a 281 kg per sqm over 30mm thick sand bed (average thickness) having 3 tons compaction force thereby forcing part of sand unjoints, final compaction of paver surface joints into its final level,	ly laid ne p surface sing appropriet sing cem minimur and commenderneatl	w concrete (Co accurately to troved stamp pa sealer. 624.00 74.88 69.89 768.77 ment and course in compressive spacting with plan to come up	Sqm se sand f strength ate vibrat in between
	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it us antiquitting it on top with approved colour. Sealing entire area with Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: Providing and laying heavy duty cobble stones 75mm thick, us manufacture of blocks of approved size, shape and colour with a 281 kg per sqm over 30mm thick sand bed (average thickness) having 3 tons compaction force thereby forcing part of sand us joints, final compaction of paver surface joints into its final level, and HOM of machineries complete as per specifications.	ly laid ne p surface sing appropriet sing cem minimur and commenderneatl	w concrete (Co accurately to troved stamp pa sealer. 624.00 74.88 69.89 768.77 ment and course in compressive spacting with plan to come up	Sqm se sand for strength atternate vibratin between
	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it un antiquitting it on top with approved colour. Sealing entire area with Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: Providing and laying heavy duty cobble stones 75mm thick, using an antiquiting and laying heavy duty cobble stones 75mm thick, using an antiquiting and laying heavy duty cobble stones 75mm thick, using a top some stone of approved size, shape and colour with a 281 kg per sqm over 30mm thick sand bed (average thickness) having 3 tons compaction force thereby forcing part of sand unjoints, final compaction of paver surface joints into its final level,	ly laid ne p surface sing appropriet sing cem minimur and commenderneatl	w concrete (Co accurately to troved stamp pa sealer. 624.00 74.88 69.89 768.77 ment and course in compressive spacting with plan to come up	Sqm se sand for strength atternate vibratin between
	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it us antiquitting it on top with approved colour. Sealing entire area with Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: Providing and laying heavy duty cobble stones 75mm thick, us manufacture of blocks of approved size, shape and colour with a 281 kg per sqm over 30mm thick sand bed (average thickness) having 3 tons compaction force thereby forcing part of sand us joints, final compaction of paver surface joints into its final level, and HOM of machineries complete as per specifications.	ly laid ne p surface sing appropriet sing cem minimur and commenderneatl	w concrete (Conaccurately to the roved stamp parsealer. 624.00 74.88 69.89 768.77 The sent and course the compressive expacting with part to come upon cost of materials.	Sqm se sand f strength ate vibrat in between
	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it us antiquitting it on top with approved colour. Sealing entire area with a Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: Providing and laying heavy duty cobble stones 75mm thick, us manufacture of blocks of approved size, shape and colour with a 281 kg per sqm over 30mm thick sand bed (average thickness) having 3 tons compaction force thereby forcing part of sand us joints, final compaction of paver surface joints into its final level, and HOM of machineries complete as per specifications. (Page No 101,SI No: 14.7) Basic rate	ly laid ne p surface sing appropriet sing cem minimur and commenderneatl	w concrete (Conaccurately to the roved stamp parasealer. 624.00 74.88 69.89 768.77 The compressive expacting with plant to come upong cost of mate.	Sqm se sand f strength ate vibrat in between
	Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh is not included in this item) including finishing and colouring the top level, shape and size using approved colour shade and staping it up antiquitting it on top with approved colour. Sealing entire area with Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year: Providing and laying heavy duty cobble stones 75mm thick, up manufacture of blocks of approved size, shape and colour with a 281 kg per sqm over 30mm thick sand bed (average thickness) having 3 tons compaction force thereby forcing part of sand up joints, final compaction of paver surface joints into its final level, and HOM of machineries complete as per specifications. (Page No 101,SI No: 14.7)	ly laid ne p surface sing appropriet sing cem minimur and commenderneatl	w concrete (Conaccurately to the roved stamp parsealer. 624.00 74.88 69.89 768.77 The sent and course the compressive expacting with part to come upon cost of materials.	Sqm se sand f strength ate vibrat in between

	Maintenance for 3rd Year: KSRRB M500-17. Providing and laying dense graded bitur aggregates of specified grading, premixed with VG30 grade bitun hot mix to work site, laying to the required grade, level and alignment.	ninous bi	nder and, tra	nsporting the
38	vibratory and tandem rollers to achieve the desired compacti			
	complete in all respects complete as per specifications MOF			
	100/120 TPH capacity H.M.P. with sensor paver Gr-II (50 mr	n to 75	mm) with 4	.5 % VG-30
	Bitumen(KPWD 16-17,S.I.No.21.17.1,Page No.163)			
	Basic rate		7839	
	Maintenance- 3rd year escalation of 12%		940.68	
	Add 10% For area weightage (Mangalore City)		877.97	
	, , , , , , , , , , , , , , , , , , ,	Rate	9657.65	Cum
	Maintenance for 3rd Year:			l
	KSRRB M500-19. Providing and laying bituminous concrete 40 i	mm thick	with hot mix	plant using
	crushed aggregates of specified grading, premixed with bituminou			
	hot mix to work site, laying with a paver finisher to the required gra			
39	smooth wheeled, vibratory and tandem rollers to achieve the de-		•	•
	specification clause No. 500.9 complete in all respects comple		•	•
	Specification No. 509 - using40/60 TPH capacity H.M.P. with Me	•	•	
	mm) with 6 % VG-40 Bitumen	oriariioai		00 111111 10 10
	1			T
	Basic rate		8761	
	Maintenance- 3rd year escalation of 12%		1051.32	
	Add 10% For area weightage (Mangalore City)		981.23	
		Rate	10793.55	Cum
	Maintenance for 3rd Year:			
40	100 mm, diecast in aluminium, resistant to corrosive effect of salt installed in concrete or asphaltic surface by drilling hole 30 mm up a suitable bituminous grout or epoxy mortar, all as per BS: 8 specifications	to a dept	h of 60 mm a	nd bedded in
	Basic rate		289	
	Maintenance- 3rd year escalation of 12%		34.68	
	Add 10% For area weightage (Mangalore City)		32.37	
	The top of the state of the s	Rate	356.05	
		rtato	000.00	11001
	Maintenance for 3rd Year:			
	Road Marking with hot applied Thermoplastic Compound with Refl Surface:Providing and laying of hot applied thermoplastic c	ompound	d 2.5mm thi	ck including
41	reflectorising glass beads at 250 gms and 2 ltr of primer per			
	exclusive of surface applied glass beads as per IRC:35.The finish			l,uniform and
	free from streak and holes complete as per specifications.MORTH	specifica	ition No.803	
	(Page No 192,SI No : 24.57)			
	Basic Rate		429	
	Maintenance- 3rd year escalation of 12%		51.48	
	Add 10% For area weightage (Mangalore City)		48.05	
		Rate	528.53	
	Maintenance for 3rd Year:			
42	Operation and Maintenance for eToilets Stainless Steel Public Moworks BOQ Item No.45.	del as sp	ecified in Ro	ad and Other
	Baisc rate		61200	
	Maintenance- 3rd year escalation of 12%		7344	
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.1	Rate	68544	Nos.

	Maintenance for 3rd Year:			
40	Providing and fixing of S.S. Bollards(SS304) on footpath as specifi	ed and d	lirected by Eng	ineer -in-
43	charge		, ,	
	(NON SOR Item)			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.13		4500.00	
	Maintenance- 3rd year escalation of 12%		540	
	,	Rate	5040	Nos.
	Maintenance for 3rd Year:	<u> </u>		
	Providing and fixing of railing as detail design in MS HOLLOW SEC	CTION ar	nd bars (shop	drawing to
44	be approved), with vertical support of 0.9m @2.2mc/c , all comple	ete to the	satisfaction of	the
	Landscape architect.(Non SOR Item)			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.26		100000.00	
	Maintenance- 3rd year escalation of 12%		12000	
	,	Rate	112000	MT
		11410	11200	
	Maintenance for 3rd Year:			
	Excavation and removal of silt and silt mixed with sand in slussy co	ndition fr	om canal hed i	including
	disposing off the same in spoil bank or on the canal embankment i			
45	with lead upto 50 m and all lifts. For Desilting of drains and grit cha	•		•
45	materials, scaffolding HOM of machineries with all lead and lifts, la			all
				_1
	implementation of Environmental and Social Safeguards & as per of Environmental And Social Safeguards & as per of Environmental And Social Safeguards & as per of Environmental And Social Safeguards & as per of Environmental And Social Safeguards & as per of Environmental And Social Safeguards & as per of Environmental And Social Safeguards & as per of Environmental And Social Safeguards & as per of Environmental And Social Safeguards & as per of Environmental And Social Safeguards & as per of Environmental And Social Safeguards & as per of Environmental And Social Safeguards & as per of Environmental And Social Safeguards & as per of Environmental And Social Safeguards & as per of Safeguards & as per of Safeguards & as per of Safeguards & a	aesign, a	rawing, technic	aı
	specifications and directions of Engineer-in-charge.			
			179.00	
	Basic Rate			
	Maintenance- 3rd year escalation of 12%		21.48	
46	Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year:	Rate	21.48 200.48	Nos.
46	Maintenance- 3rd year escalation of 12%		21.48 200.48	Nos.
46	Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b	eyond ini	21.48 200.48	Nos.
46	Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate	eyond ini	21.48 200.48 tial Lead	Nos.
46	Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth	eyond ini	21.48 200.48 tial Lead	Nos.
46	Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1)	eyond ini	21.48 200.48 tial Lead	Nos.
46	Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-	eyond ini	21.48 200.48 tial Lead .28x10km 25.60	Nos.
46	Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1	eyond ini	21.48 200.48 tial Lead .28x10km 25.60 68.00	Nos.
46	Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1)	eyond ini	21.48 200.48 tial Lead .28x10km 25.60 68.00	Nos.
46	Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1	eyond ini	21.48 200.48 tial Lead .28x10km 25.60 68.00 93.60	Nos.
46	Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 10% For area weightage (Mangalore City)	eyond ini	21.48 200.48 tial Lead .28x10km 25.60 68.00 93.60 9.36	Nos.
46	Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 10% For area weightage (Mangalore City) Sub Total-2	eyond ini	21.48 200.48 tial Lead .28x10km	Nos.
46	Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 10% For area weightage (Mangalore City) Sub Total-2	eyond ini	21.48 200.48 tial Lead .28x10km 25.60 68.00 93.60 93.60 102.96 12.36	
46	Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 10% For area weightage (Mangalore City) Sub Total-2	eyond ini	21.48 200.48 tial Lead .28x10km 25.60 68.00 93.60 93.60 102.96 12.36	
46	Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 10% For area weightage (Mangalore City) Sub Total-2 Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year:	eyond ini 2.0x1 Rate	21.48 200.48 tial Lead .28x10km 25.60 68.00 93.60 93.60 102.96 12.36 115.32	
	Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 10% For area weightage (Mangalore City) Sub Total-2 Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b	eyond ini 2.0x1 Rate	21.48 200.48 tial Lead .28x10km	
	Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 10% For area weightage (Mangalore City) Sub Total-2 Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris	eyond ini 2.0x1 Rate eyond ini	21.48 200.48 tial Lead .28x10km	
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	Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 10% For area weightage (Mangalore City) Sub Total-2 Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1	eyond ini 2.0x1 Rate eyond ini	21.48 200.48 tial Lead .28x10km	
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	Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 10% For area weightage (Mangalore City) Sub Total-2 Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 10% For area weightage (Mangalore City) Sub Total-1 Add 10% For area weightage (Mangalore City) Sub Total-1 Add 10% For area weightage (Mangalore City) Sub Total-2	eyond ini 2.0x1 Rate eyond ini	21.48 200.48 tial Lead .28x10km	
	Maintenance for 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 10% For area weightage (Mangalore City) Sub Total-2 Maintenance- 3rd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 10% For area weightage (Mangalore City)	eyond ini 2.0x1 Rate eyond ini	21.48 200.48 tial Lead .28x10km	

	Maintenance for 3rd Year:		4-				
48	Dismantling of pole/ street light standard/ strut embedded in ceme	ent concre	te				
.0	foundation etc. as required (Delhi analysis of rates E & M 2016, item 12.42, pg 395))						
	(Definitionallysis of fales E & W 2016, Item 12.42, pg 393))						
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.22		938				
	Maintenance- 3rd year escalation of 12%		112.56				
	Maintenance ord year education of 1270	Rate	1050.56	Nos.			
		Itato	1000.00	1100.			
	Maintenance for 3rd Year:		<u> </u>				
	Lighting Pole, 7 m						
	Fabrication, suppl and erection of 7 meters long hot dip Galvanise	ed Octano	nal note with B	SE 10025			
	grade S 355 JO steel plate for shaft, IS 2062 for base plate with o	_	•				
	suitable boards, bakelite sheet and MCBs as per IS specifications						
49	m/sec for 5 m pole in single section and single joint welded as pe		•				
43	dimensions bottom 155 mm dia, top 70 mm with 3 mm thick, suita			•			
	long J bolts along with template and the pole shall be hot dip galv						
	less than 65 micron as per ASTM - A123 and 153 etc., (excluding		• •				
	appended (excitating	, rouridatio	ii) as pei alaw	119			
	(Ref Electrical SOR SI No. 5.14.5)						
	Basic rate		12420				
	Maintenance- 3rd year escalation of 12%		1490.4				
	Walfiterlance- ord year escalation of 1276	Rate	13,910.40	Nos.			
	Operation 9 Maintenance for 2rd Veer	Nate	13,910.40	NUS.			
	Operation & Maintenance for 3rd Year:						
	Lighting Pole, 4 m	a a d O a t a a	الطئنيي مام ما مم	OCE 4000E			
	Fabrication, supply and erection of 4 meters long hot dip Galvanised Octagonal pole with BSE 10025						
	grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, icluding						
		door openi	ng arrangemen	t, icluding			
50	suitable boards, bakelite sheet and MCBs as per IS specifications	door openi s suitable f	ng arrangemen or wind speed	t, icluding of 47			
50	suitable boards, bakelite sheet and MCBs as per IS specifications m/sec for 5 4 pole in single section and single joint welded as per	door openi s suitable f · IS 9595/I	ng arrangemen or wind speed S 10178 AWG	t, icluding of 47 having			
50	suitable boards, bakelite sheet and MCBs as per IS specifications m/sec for 5 4 pole in single section and single joint welded as per dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suita	door openi s suitable f · IS 9595/I able base	ng arrangemen or wind speed S 10178 AWG olate and 4 nos	t, icluding of 47 having of long J			
50	suitable boards, bakelite sheet and MCBs as per IS specifications m/sec for 5 4 pole in single section and single joint welded as per dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitabolts along with template and the pole shall be hot dip galvanized	door openi s suitable f · IS 9595/la able base p I in single (ng arrangemen for wind speed S 10178 AWG plate and 4 nos dipping with no	t, icluding of 47 having . of long J t less than			
50	suitable boards, bakelite sheet and MCBs as per IS specifications m/sec for 5 4 pole in single section and single joint welded as per dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitabolts along with template and the pole shall be hot dip galvanized 65 micron as per ASTM - A123 and 153 etc., (excluding foundation)	door openi s suitable f · IS 9595/la able base p I in single (ng arrangemen for wind speed S 10178 AWG plate and 4 nos dipping with no	t, icluding of 47 having . of long J t less than			
50	suitable boards, bakelite sheet and MCBs as per IS specifications m/sec for 5 4 pole in single section and single joint welded as per dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitabolts along with template and the pole shall be hot dip galvanized	door openi s suitable f · IS 9595/la able base p I in single (ng arrangemen for wind speed S 10178 AWG plate and 4 nos dipping with no	t, icluding of 47 having . of long J t less than			
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50	suitable boards, bakelite sheet and MCBs as per IS specifications m/sec for 5 4 pole in single section and single joint welded as per dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitabolts along with template and the pole shall be hot dip galvanized 65 micron as per ASTM - A123 and 153 etc., (excluding foundation (Ref Electrical SOR SI No.5.14.2)	door openi s suitable f · IS 9595/la able base p I in single (ng arrangement for wind speed S 10178 AWG plate and 4 nos dipping with no drawing appen	t, icluding of 47 having . of long J t less than			
50	suitable boards, bakelite sheet and MCBs as per IS specifications m/sec for 5 4 pole in single section and single joint welded as per dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitabolts along with template and the pole shall be hot dip galvanized 65 micron as per ASTM - A123 and 153 etc., (excluding foundation (Ref Electrical SOR SI No.5.14.2)	door openi s suitable f IS 9595/lable base I in single on) as per	ng arrangement for wind speed S 10178 AWG plate and 4 nos dipping with no drawing appen	t, icluding of 47 having of long J t less than ded			
50	suitable boards, bakelite sheet and MCBs as per IS specifications m/sec for 5 4 pole in single section and single joint welded as per dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitable bolts along with template and the pole shall be hot dip galvanized 65 micron as per ASTM - A123 and 153 etc., (excluding foundation (Ref Electrical SOR SI No.5.14.2) Basic rate Maintenance- 3rd year escalation of 12%	door openi s suitable f · IS 9595/la able base p I in single (ng arrangement for wind speed S 10178 AWG plate and 4 nos dipping with no drawing appen	t, icluding of 47 having . of long J t less than			
50	suitable boards, bakelite sheet and MCBs as per IS specifications m/sec for 5 4 pole in single section and single joint welded as per dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitabolts along with template and the pole shall be hot dip galvanized 65 micron as per ASTM - A123 and 153 etc., (excluding foundation (Ref Electrical SOR SI No.5.14.2) Basic rate Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year:	door openi s suitable f IS 9595/li able base p I in single open) as per	ng arrangement for wind speed S 10178 AWG plate and 4 nos dipping with nor drawing appen 7398 887.76 8,285.76	t, icluding of 47 having of long J t less than ded			
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Maintenance- 3rd year escalation of 12% Oudoor Box and Switch Gear Maintenance for 3rd Year: Supply, installation, testing and commissio with all required accessories and compone Price list (Considering 30% discount, 18 Maintenance- 3rd year escalation of 12%	nets							
Maintenance for 3rd Year: Supply, installation, testing and commissio with all required accessories and compone Price list (Considering 30% discount, 18)	ning of outdoor junction box fo		4 Nos.					
Maintenance for 3rd Year: Supply, installation, testing and commissio with all required accessories and compone Price list (Considering 30% discount, 18)	nets	or mounting M						
Supply, installation, testing and commissio with all required accessories and compone Price list (Considering 30% discount, 18	nets	or mounting M						
Supply, installation, testing and commissio with all required accessories and compone Price list (Considering 30% discount, 18	nets	or mounting Mo						
with all required accessories and compone Price list (Considering 30% discount, 18)	nets	n mounting wi	B/Contacto					
Price list (Considering 30% discount , 1		Ū	JD/Contacto					
, , , , , , , , , , , , , , , , , , ,	8% GST & 10% profit)							
, , , , , , , , , , , , , , , , , , ,	576 GGT & 1076 profit)	1178	33					
Maintenance- 3rd year escalation of 12%		1176	,3					
		1413.9	6					
	Rat		7 Nos.					
	1100	10,10	11001					
Maintenance for 2nd Voor								
Maintenance for 3rd Year:		<i>.</i>						
Supply and fixing of miniature circuit break								
'C' type curve, indicator ON/OFF, energy c		ng capacity of	10 KA					
complete wiring as required confirming to I	EC 60898							
5- 32A TPN								
Electrical SOR- 6.16.5)								
Basic rate		154	7					
Maintenance- 3rd year escalation of 12%		185.6						
	Rat	e 1,73	Nos.					
LT Cable								
Maintenance for 3rd Year:		•						
Supplying of 1.1 kV LT cable having alumin	nium conductor PVC insulated	L extruded inn	er sheathed					
galvanised, steel strips (except 2C x 10 sq								
PVC outer sheathed armoured cable as pe		iorming to GT	o GROUP					
4 Core x16 Sq.mm PVC Aluminium Condu	ctor,							
(Ref Electrical SOR SI No.7.5,7.5.4)	(Ref Electrical SOR SI No.7.5,7.5.4)							
Basic rate		11	7					
Maintenance- 3rd year escalation of 12%			/					
		14 (
Walliterlance- 3rd year escalation of 1276	Pat	14.0)4					
	Rat)4					
Maintenance for 3rd Year:		e 131.0	04 4 Rm					
Maintenance for 3rd Year: Supply and drawing flexible multicore cable	e with electrolyte grade flexible	e 131.0	4 Rm ow conducto					
Maintenance for 3rd Year: Supply and drawing flexible multicore cable conforming to Table 3 Class 5 of IS:8130-1	e with electrolyte grade flexible 984 and vargin PVC insulation	e copper with len and sheathe	4 Rm ow conducto					
Maintenance for 3rd Year: Supply and drawing flexible multicore cable	e with electrolyte grade flexible 984 and vargin PVC insulation	e copper with len and sheathe	4 Rm ow conducto					
Maintenance for 3rd Year: Supply and drawing flexible multicore cable conforming to Table 3 Class 5 of IS:8130-1	e with electrolyte grade flexible 984 and vargin PVC insulation 1:1990 and conforming to GT	e copper with len and sheathe	4 Rm ow conducto					
Maintenance for 3rd Year: Supply and drawing flexible multicore cable conforming to Table 3 Class 5 of IS:8130-1 working voltage up to 1100 V as per IS-694	e with electrolyte grade flexible 984 and vargin PVC insulation 1:1990 and conforming to GT	e copper with len and sheathe	4 Rm ow conducto					
Maintenance for 3rd Year: Supply and drawing flexible multicore cable conforming to Table 3 Class 5 of IS:8130-1 working voltage up to 1100 V as per IS-694 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	e with electrolyte grade flexible 984 and vargin PVC insulation 1:1990 and conforming to GT	e copper with lend and sheather P of Group A.	4 Rm ow conducto d suitable fo					
Maintenance for 3rd Year: Supply and drawing flexible multicore cable conforming to Table 3 Class 5 of IS:8130-1 working voltage up to 1100 V as per IS-694 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8 Basic rate	e with electrolyte grade flexible 984 and vargin PVC insulation 1:1990 and conforming to GT	e copper with lend and sheather P of Group A.	A Rm Tow conducto d suitable fo					
Maintenance for 3rd Year: Supply and drawing flexible multicore cable conforming to Table 3 Class 5 of IS:8130-1 working voltage up to 1100 V as per IS-694 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	e with electrolyte grade flexible 984 and vargin PVC insulatio 4:1990 and conforming to GT	e copper with lender and sheather P of Group A. 81 9.7	Rm ow conducto d suitable fo					
Maintenance for 3rd Year: Supply and drawing flexible multicore cable conforming to Table 3 Class 5 of IS:8130-1 working voltage up to 1100 V as per IS-694 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8 Basic rate	e with electrolyte grade flexible 984 and vargin PVC insulation 1:1990 and conforming to GT	e copper with len and sheather P of Group A.	Rm ow conducto d suitable fo					
Maintenance for 3rd Year: Supply and drawing flexible multicore cable conforming to Table 3 Class 5 of IS:8130-1 working voltage up to 1100 V as per IS-69-3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8 Basic rate Maintenance- 3rd year escalation of 12%	e with electrolyte grade flexible 984 and vargin PVC insulatio 4:1990 and conforming to GT	e copper with lender and sheather P of Group A. 81 9.7	Rm ow conducto d suitable fo					
Maintenance for 3rd Year: Supply and drawing flexible multicore cable conforming to Table 3 Class 5 of IS:8130-1 working voltage up to 1100 V as per IS-694 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8 Basic rate Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year:	e with electrolyte grade flexible 984 and vargin PVC insulatio 4:1990 and conforming to GT 5)	e copper with len and sheather P of Group A. 81 9.7 9 91.3	04 Rm ow conducto d suitable fo .6 .79 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8					
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Maintenance for 3rd Year: Supply and drawing flexible multicore cable conforming to Table 3 Class 5 of IS:8130-1 working voltage up to 1100 V as per IS-694 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8 Basic rate Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Supplying tinned copper lugs and crimping 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate Maintenance- 3rd year escalation of 12% Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Supplying tinned copper lugs and crimping 2.5 sq. mm copper conductor	e with electrolyte grade flexible 984 and vargin PVC insulation 4:1990 and conforming to GT (a) Rate Rate	e copper with len and sheather P of Group A. 81 9.7 9 91.3 or wire of follow 11.3 1.3 1.3	over conductor distribution of suitable for					
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	Maintenance for 3rd Year: Chemical Earthing for grounding,conduits,IC cut outs and otherequence copper /SS rod with earth enhancing backfill compound which is reference.			pardby using		
60	,thermally,conductive,potential,to permissible,limits,superior,fault,c toxic,weather resistance and capable of achieving ohmic value			ı		
	less than one ohm (Ref Electrical SOR Pg.No.64,SI No.7.23.6)					
	Basic rate		5500			
	Maintenance- 3rd year escalation of 12%		660			
	, and the second	Rate	6160	Kit		
	Maintenance for 3rd Year:					
61	Supply and running GI conductor for grounding and (along with oth wiring) using necessasary suitable size clamps, nails, guttas/space (Ref Electrical SOR SI No.7.22.3)			stem of		
	Basic rate		19.5			
	Maintenance- 3rd year escalation of 12%		2.34			
		Rate	21.84	Rmt		
	Maintenance for 3rd Year:					
62	Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item)					
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.27		140.00			
	Maintenance- 3rd year escalation of 12%		16.8	-		
		Rate	156.80	Cum		
63	Maintenance for 3rd Year: KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)					
	Basic rate		204			
	Maintenance- 3rd year escalation of 12%		24.48			
	Add 10% For area weightage		22.85			
		Rate	251.33	Cum		
0.4	Maintenance for 3rd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness					
64	(cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77)					
	Basic rate		103			
	Maintenance- 3rd year escalation of 12%		12.36			
	Add 10% For area wightage		11.54			
		Rate	126.90	Cum		
65	Maintenance for 3rd Year: Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)					
	Rate Approved as per EOI by MD MSCL Mangalore,Refer		22.04			
	Sr.No.28		23.91			
	Maintenance- 3rd year escalation of 12%		2 87			
	Maintenance- 3rd year escalation of 12%	Rate	2.87 26.78	Cum		

66	Maintenance of lawns or Turfing of slopes (rough grassing) f watering etc complete including cost of all materials, scaffolding	•	od of one ve					
66			•					
	and lifts, labour charges including implementation of Environmen			irds & as pe				
	design, drawing, technical specifications and directions of Engine	er-in-char	ge.					
	Basic rate		103					
	Maintenance- 3rd year escalation of 12%		12.36					
	Add 12% For area wightage		13.84					
		Rate	129.20	Sqm				
	TURF							
	Maintenance for 3rd Year:							
67	ZOYSIA JAPONICA (MAT)							
	(Non SOR Item)							
	Rate Approved as per EOI by MD MSCL Mangalore,Refer							
	Sr.No.32		156.80					
	Maintenance- 3rd year escalation of 12%		18.82					
		Rate	175.62	Sqm				
	IRRIGATION							
60	Maintenance for 3rd Year:							
68	Watering with tanker to landscape area and plants for one year							
	Water Tanker =61 Rs/ Hour, One Year Cost=92 days x 3 hrs x		16836					
	61rs/hr (365days-90 days of mansoon=275 days/3 days=92							
	days,consider watering at every 3 days)							
	Mazdoor = 0.5 days x 258.88		11908.48					
	Add 10% For area wightage		1190.848					
	Maintenance- 3rd year escalation of 12%		3449.34					
		Rate	33384.67	Year				
	Maintenance for 3rd Year:							
	supply and fixing of irrigation lines such that all the green areas and plants are adequately watered;							
	by means of drip irrigation for trees, sub surface for shrubs and lawn areas / ground covers and por							
		up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent)						
69	up sprinklers for lawn areas. (Equipment make - Rainbird or equiv	•						
69	up sprinklers for lawn areas. (Equipment make - Rainbird or equival All material used should be comply to BSI code. All the necessary	•	ie and pump	required f				
69	up sprinklers for lawn areas. (Equipment make - Rainbird or equival All material used should be comply to BSI code. All the necession complete commissioning to be installed.	•	ie and pump	required f				
69	up sprinklers for lawn areas. (Equipment make - Rainbird or equival All material used should be comply to BSI code. All the necession complete commissioning to be installed. (Non SOR Item)	•	e and pump	required f				
69	up sprinklers for lawn areas. (Equipment make - Rainbird or equival All material used should be comply to BSI code. All the necess complete commissioning to be installed. (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Refer	•		required f				
69	up sprinklers for lawn areas. (Equipment make - Rainbird or equival All material used should be comply to BSI code. All the necession complete commissioning to be installed. (Non SOR Item)	•	560.00 67.2	required for				

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 8.1 Abstract for Maintenance of Road and Other Work for DPR 5 - 4th Year

	Specification	Unit	Total Qty.	Rate	Amount
	Civil Works				
1.00	Maintenance for 4th Year: Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA attached)		14.00	79.07	1107
2.00	Maintenance for 4th Year: KSRRB M200.Dismantling of cement concrete pavement by mechanical means using pueumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock pilling at designated locations and disposal of dismantled material stacking serviceble and unserviceable materials separately complete as per specifications.MORTH specification No.202.(Including transporting charges, loading and unloading for lead 5km-Extra) (Page No 138,SI No : 18.47)	Cum	18.38	1147.12	21,084
3.00	Maintenance for 4th Year: KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M200-26. Dismantling Kerb stone by Manual means and disposal of dismantled materials with all lifts and complete as per specifications.MORTH Specification No.202. (Page No.139,S.I.No.18.49)	Rmt	20.00	15.31	306
4.00	Maintenance for 4th Year: KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202 (KPWD SOR 16-17,18.20,Page No.137)	Cum	20.00	497.64	9,953
5.00	Maintenance for 4th Year: KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonary, cement concrete, woodwork, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar	Cum	3.45	447.88	1545
6.00	(Page No 137,SI No : 18.23) Operation & Maintenance for 4th Year: KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 1.00Km and complete as per specifications. MORTH specification No.301(Including transporting charges, loading and unloading for lead 5km) (Page No 143,SI No : 19.14)	Cum	250.00	52.32	13,080
7.00	Maintenance for 4th Year: KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(KPWD 16-17,SI No.2.11,Pg. No.6)	Cum	75.00	153.12	11,484
8.00	Maintenance for 4th Year: KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3.(KPWD 16-17,SI No.19.64,Pg. No.149)	Sqm	500.00	7.66	3,830

	Specification	Unit	Total Qty.	Rate	Amount
9.00	Maintenance for 4th Year: KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2015-16)	Cum	7.50	7528.40	56,463
10.00	Maintenance for 4th Year: KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material	Cum	37.50	2763.82	103,643
11.00	Maintenance for 4th Year: KSRB 4.2.1: Providing and laying in position reiforcement cement concrete of design Mix M25 with OPC cement @340Kgs,with 20mm and down size graded granite metal coarse aggregate @ 0.47 cum with super plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 at machine mixed,concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls,return walls,walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of machinery,curing,complete but excluding cost of reinforcement as per specifications. (Page No 13,SI No : 4.10)	Cum	48.00	7908.65	3,79,615
12.00	Maintenance for 4th Year: KSRB 4.6.1 Providing and removing centering, shuttering, strutting, propping etc.,and removal of formwork for foundations, footings, bases of columns for mass concrete including cost of all materials,labour complete as per specifications. Specification No. KSB 4.6.2 (Page No 15,SI No: 4.28)		360.00	335.59	1,20,812
13.00	Maintenance for 4th Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work including straighting,cutting,bending,hooking,placing in position,lapping and/or welding wherever required,tying with binding wire and anchoring to thr adjoing members wherever necessary complete as per design (laps,hooks and wastage shall not be measured and paid) cost of materials,labour,HOM of machinary complete as per specifications.Specification No. KBS4.6.3. do with TMT bars Fe500	MT	3.84	90317.83	3,46,820
14.00	Maintenance for 4th Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of sub-grade with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory rollercompaction by vibratory roller to 97% of proctors density) MORTH Specification No. 305	Cum	61.25	710.91	43,543
15.00	Maintenance for 4th Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications.Morth specification No.601 (Page No 176,SI No : 22.1)	Cum	12.25	5165.25	63,274

	Specification	Unit	Total Qty.	Rate	Amount
16.00	Maintenance for 4th Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,Manually laid and compacting with palte compactor,finishing and curing complete as per specifications.Morth specification No.601 (RA attached)		20.00	4695.68	93,914
17.00	Maintenance for 4th Year: KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars at 4.5m intervals, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per sprcifications MORTH specification No.602.do with M40 (420Kg per cum Cement,C.A,0.67 cum F.A.044Cum (Page No 176,SI No : 22.2.2)	Cum	28.18	7489.89	2,11,065
18.00	Maintenance for 4th Year: Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealant manufacturer recommends and pouring the sealant all complete including material, manpower (Non SOR Item)	Rmt	650.00	133.40	86,710
19.00	Maintenance for 4th Year: KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints longitudinal joints and expansion joints in concrete pavement using epoxy mortar concrete complete as per specifications.Morth specification No.3005.1 (Page No 257,SI No : 35.8)	Rmt	650.00	422.36	2,74,534
20.00	Maintenance for 4th Year: Providing and laying at or near ground level factory made kerb stone of M-20 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).		0.10	22596.45	2,260
21.00	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of CC 1:2:4 and Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3)		2.79	20113.71	56,117
22.00	Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,made out of CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,Sl No : 5.3)		1.18	20113.71	23,734

	Specification	Unit	Total Qty.	Rate	Amount
23.00	Maintenance for 4th Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-incharge.	Rmt	100.00	30.62	3,062
24.00	Maintenance for 4th Year: KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No 182,SI No : 24.1)	Sqm	82.50	102.08	8,422
25.00	Maintenance for 3rd Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting.	Nos.	5.00	9493.85	47,469
26.00	Maintenance for 3rd Year: P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached)	Nos.	5.00	6331.88	31,659
27.00	Maintenance for 3rd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm at level footpath. (Rate analysis attached)	Nos.	5.00	6978.64	34,893
28.00	Maintenance for 4th Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes to the required alignments including specials and grade as indicated in drawings/design and hydraulically testing of the pipe line. The rate shall include all jointing materials, testing apparatus and water for testi g etc as directed by the Engineer in charge (page No.41, Item No.7, KUWSDB SOR 2016-17)		20.00	349.22	6,984
29.00	Maintenance for 4th Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100mm dia, of self cleaning design with screwed down or hinged grating with or without vent arm including cutting and making good the walls and floors, cost of materials, labour, testing, complete as per specifications Specification No. KBS 11.1.10. (PWD SR 2015-16,P.No.86, SI.No.12.89)		20.00	1059.08	21,182
30.00	Maintenance for 4th Year: KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings complete as per specifications. Case-III: Triple row for three utility services. (PWD SR 2015-16,SI.No.24.36)		20.00	6408.07	1,28,161
31.00	Maintenance for 4th Year: Providing and laying Dia 200mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5,Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7.The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years. (Market Rate)	Rmt	150.00	1805.98	2,70,897
32.00	Maintenance for 4th Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5, Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7. The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years. (Market Rate)	Rmt	100.00	1239.92	1,23,992

	Specification	Unit	Total Qty.	Rate	Amount
33.00	Maintenance for 4thYear: Providing and Fixixng Spacers for Power Ducts of size 225 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)		20.00	1163.48	23,270
34.00	Maintenance for 4th Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)		20.00	2258.52	45,170
35.00	Maintenance for 4th Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lubricant inner layer for ICT fibre cables comforming to ASTMF 2160 and /or equivalent indian standard and conveying to work site including loading and unloading at both destination and rolling,lowering into trenches,laying true to line and jointing of pipe etc.Complete. (Market Rate)	Rmt	40.00	697.51	27,900
36.00	Maintenance for 4th Year: Supplying and Application charges required for stamping the freshly laid new concrete (Concrete rate is not included in this item) including finishing and colouring the top surface accurately to the required level, shape and size using approved colour shade and staping it using approved stamp pattern and antiquitting it on top with approved colour. Sealing entire area with concrete sealer.	Sqm	200.00	796.22	1,59,244
37.00	Maintenance for 4th Year: Providing and laying heavy duty cobble stones 75mm thick, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 30mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. (Page No 101,SI No: 14.7)	Sqm	75.00	1421.46	106,610
38.00	Maintenance for 4th Year: KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No. 507 -using 100/120 TPH capacity H.M.P. with sensor paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 16-17,S.I.No.21.17.1,Page No.163)	Cum	6.00	10002.56	60,015
39.00	Maintenance for 4th Year: KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-40 Bitumen	Cum	1.60	11179.04	17,886
40.00	Maintenance for 4th Year: KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications	Nos.	50.00	335.24	16,762

	Specification	Unit	Total Qty.	Rate	Amount
41.00	Maintenance for4th Year: Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface:Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area,thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be level,uniform and free from streak and holes complete as per specifications.MORTH specification No.803 (Page No 192,SI No : 24.57)		600.00	547.40	3,28,440
42.00	Maintenance for 4th Year: Operation and Maintenance for eToilets Stainless Steel Public Model as specified in Road and Other works BOQ Item No.45.	Nos	3.00	70992.00	2,12,976
43.00	Maintenance for 4th Year: Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	2.00	5220.00	10,440
44.00	Maintenance for 4th Year: Providing and fixing of railing as detail design in MS HOLLOW SECTION and bars (shop drawing to be approved),with vertical support of 0.9m @2.2mc/c , all complete to the satisfaction of the Landscape architect.(Non SOR Item)	MT	0.10	116000.00	11,600
45.00	Maintenance for 4th Year: Excavation and removal of silt and silt mixed with sand in slussy condition from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with lead upto 50 m and all lifts. For Desilting of drains and grit chambers including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-incharge.		1015.00	207.64	2,10,755
46.00	Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Earth	Cum	200.00	119.43	23,886
47.00	Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Debris	Cum	70.00	119.94	8,396
48.00	Electrical Works Maintenance for 4th Year: Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required (Delhi analysis of rates E & M 2016, item 12.42, pg 395))	Nos.	1.00	1088.08	1,088
49.00	Maintenance for 4th Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with oor opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 m pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 155 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5)	Nos.	1.00	14407.20	14,407

			Total Qty.	Rate	Amount
50.00 Fig. 4 4 9 3 3 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Operation & Maintenance for 4th Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 4 pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No.5.14.2)	Nos.	1.00	8581.68	8,582
51.00	Maintenance for 4th Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5)	Nos.	1.00	4106.40	4,106
52.00	Maintenance for 4thYear: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2)	Nos.	1.00	2784.00	2,784
53.00 k	Maintenance for 4th Year: Painting of Existing street light pole after scrapping the old paint and painted with suitable colour enamel including coping/footing of the pole8mtr and above street light pole (Ref Electrical SOR SI No.16.28.3)	Nos.	242.00	719.20	174,046
5	Maintenance for 4th Year: Supply, installation, testing and commissioning of outdoor junction box for mounting MCB/Contactors with all required accessories and componenets	Nos.	1.00	13668.28	13,668
55.00 c r 55.00 c	Maintenance for 4th Year: Supply and fixing of miniature circuit breaker on exisiting board using necessasary fixing material and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10 KA complete wiring as required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5)	Nos.	1.00	1794.52	1,795
56.00 PM S S S S S S S S S S S S S S S S S S	Maintenance for 4th Year: Supplying of 1.1 kV LT cable having aluminium conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)	m	60.00	135.72	8,143
57.00 a	Maintenance for 4th Year: Supply and drawing flexible multicore cable with electrolyte grade flexible copper with low conductor conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insulation and sheathed suitable for working voltage up to 1100 V as per IS-694:1990 and conforming to GTP of Group A. 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	m	10.00	94.66	947
58.00 v 1	Maintenance for 4th Year: Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6)	Nos	10.00	13.12	131
59.00 v	Maintenance for 4thYear: Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 2.5 sq. mm copper conductor (Ref Electrical SOR SI No.7.21.2) Earthing system	Nos	8.00	3.62	29

Maintenance for 4th Year: Chemical Earthing for grounding.conduits, IC cut outs and otherequipmentson the miter boardby using copper /SS rod with earth enhanting backfull compound which is non conserve, thermally conductive, potential.to compound which is non conserve, thermally conductive, potential.to compound which is non conserve, thermally conductive, potential.to conserve and capable of achieving other value less than one of miter (Ref Electrical SOR Pg No 64,SI No.7.22.6) Maintenance for 4th Year: Supply and trunning G1 conductor for grounding and (along with other wires in conduits system of wring) using necessasary suitable size clamps, nails, gultas/spacers size 5 SWG (Ref Electrical SOR SI No.7.22.6) Landcaping Works SOIL MIXES and Ground Preparation Maintenance for 4th Year: Supplying and stacking of good earth at site including royalty and carriage (200 lupt of S.m. laced complete (earth measured in stacks will be reduced by 20% for psyment). (Non SOR item) Works SOR land of the Year: SCRR Roy No. 4th Year: SCRR Roy No. 4th Year: SCRR Roy No. 150, 150, 150, 150, 150, 150, 150, 150,		Specification	Unit	Total Qty.	Rate	Amount
Supply and running GI conductor for grounding and (along with other wires in 61.00 conducts system of wining) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No. 7.22.3) Landcaping Works SOL MIXES and Ground Preparation Maintenance for 4th Year: Supplying and stacking of good earth at site including royalty and carriage out of payment), (Non SOR Item) Maintenance for 4th Year: KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-1. Supplying and source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No. 152.5) No. 19.90) Maintenance for 4th Year: KSRRB M300-4th Without KSRRB M300-5. Spreading of sludge farm yard manure or/ and good earth KSRRB M300-5. Spreading of sludge farm yard manure or/ and good earth in required thickness (sost of sludge, farm yard manure or/ and good earth in required thickness (sost of sludge, farm yard manure or/ and good earth in required thickness (sost of sludge, farm yard manure or/ and good earth in required thickness (sost of sludge, farm yard manure or/ and good earth in required thickness (sost of sludge, farm yard manure or/ and good earth in required thickness (sost of sludge, farm yard manure or/ and good earth in required thickness (sost of sludge, farm yard manure or/ and good earth in required proportion specified or (Richard States) (Richard Stat	60.00	Chemical Earthing for grounding,conduits,IC cut outs and otherequipmentson the mter boardby using copper /SS rod with earth enhancing backfill compound which is non corrosive ,thermally,conductive,potential,to permissible,limits,superior,fault,conductive capacity,non toxic,weather resistance and capable of achieving ohmic value less than one ohm	Kit	1.00	6380.00	6,380
SOIL MIXES and Ground Preparation Maintenance for 4th Year: Supplying and stacking of good earth at site including royalty and carriage supplying and stacking of good earth at site including royalty and carriage for payment). (Non SOR Item) Maintenance for 4th Year: KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 303.2(Page No. 152, SI. No. 19.90) Maintenance for 4th Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/ and good earth to Separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 16-17 Page No. 150, SI No. 19.77) Maintenance for 4th Year: Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Mixing Sort Item) Soil preparation of Lawn Maintenance for 4th Year: Maintenance for 4th Year: KSRRB M300-3 Making lawns including ploughing and breaking of clodu-removal of rubbish, dressing and supplying doots grass roots and planting at 15 cm apart, including supplying and spreading of farm yard manure at rate of 0.18 cum per 100 sqn complete as per specifications. MORTH Specification No. 307 (KSRRB 19.80) TURF Operation & Maintenance for 4th Year: Operation & Maintenance for 4th Year: Volume Complete of the Vear: Volume Complete or the Vear: Volume Complete or the Vear: Volume Complete Commissioning to be installed. Volume Complete Commissioning to be installed. Volume Complete Commissioning to be installed.	61.00	Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG	Rmt	50.00	22.62	1,131
Maintenance of 4th Year: Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item) Maintenance of 4th Year: KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308 (ZPage No. 152, SI No.19.90) Maintenance for 4th Year: KSRRB M300-Hortculture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/ and good earth in required proportion specified or directed by the Officer-in-charge (Non SOR item) Soil preparation of Lawn Maintenance for 4th Year: Maintenance for 4th Year: Maintenance for 4th Year: Soil preparation of Lawn Maintenance for 4th Year: Soil preparation of Maintenance for 4th Year: Operation & Maintenance for 4th Year: Operation & Maintenance for 4th Year: Operation & Maintenance for 4th Year: Operation & Maintenance for 4th Year: Soil preparation of Maintenance for 4th Year: Operation & Maintenance for 4th Year: Operation & Maintenance for 4th Year: Operation & Maintenance for 4th Year: Operation & Maintenance for 4th Year: Operation & Maintenance for 4th Year: Operation & Maintenance for 4						
Supplying and stacking of good earth at site including royalty and carriage Cum 1.50 162.40 244 for payment). (Non SOR tem) Maintenance for 4th Year: KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB discourse, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152.SI.No.19.90) Maintenance for 4th Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/ and good earth to required thickness (cost of sludge, farm yard manure or/ and good earth to the paid for separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 16-17 Page No.150.SI No.19.77) Maintenance for 4th Year: Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item) Soil preparation of Lawn Maintenance for 4th Year: KSRRB M300-3 Making lawns including ploughing and breaking of clodu-removal of rubbish, dressing and supplying doobs grass roots and planting at 15 cm apart, including supplying and spreading of farm yard manure at rate of 0.18cm per 100 sqm complete as per specifications. MORTH Specification No. 307 (KSRRB M300-3 Making lawns including supplying and spreading of farm yard manure at rate of 0.18cm per 100 sqm complete as per specifications. MORTH Specification No. 307 (KSRRB 19.80) TURF Operation & Maintenance for 4th Year: Operation & Maintenance for 4th Year: Uniform of the paid o						
KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-Or11. Supply at site of work well decayed farm yard manure KSRRB M300-Or11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2/Page No.152.SI.No.19.90) Maintenance for 4th Year: KSRRB M300-Hortoulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-Spreading of sludge farm yard manure or/ and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 16-17.Page No.150.SI No.19.77) Maintenance for 4th Year: Minimenance for 4th Year: Maintenance for 4th Year: Sorphantial All Maintenance for 4th Year: Morth Specification No.307 (KSRRB 19.80) TURF Operation & Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year Operation & Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year Operation & Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year Operation & Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year Operation & Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year Operation & Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year Operation & Maintenance for 4th Year: Watering with tanker to landscape area and plants of	62.00	Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment).	Cum	1.50	162.40	244
KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MoRTH Specification No. 307 (KPWD SR 16-17,Page No.150,Sl No.19.77) Maintenance for 4th Year: Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item) Soil preparation of Lawn Maintenance for 4th Year: KSRRB M300-3.Making lawns including ploughing and breaking of clod,removal of rubbish, dressing and supplying doobs grass roots and planting at 15 cm apart, including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications. MORTH Specification No.307 (KSRRB 19.80) TURF Operation & Maintenance for 4th Year: ZOYSIA JAPONICA (MAT) (Non SOR Item) RRIGATION Operation & Maintenance for 4th Year: watering with tanker to landscape area and plants for one year Operation & Maintenance for 4th Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees, sub surface for supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees, sub surface for supply and fixing of irrigation lines such that all the necessary value and pump required for complete commissioning to be installed. (Non SOR Item)	63.00	KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No.	Cum	0.75	260.30	195
Mixing earth and studge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item) Soil preparation of Lawn Maintenance for 4th Year: KSRRB M300-3.Making lawns including ploughing and breaking of clod, removal of rubbish, dressing and supplying doobs grass roots and planting at 15 cm apart, including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications. MORTH Specification No.307 (KSRRB 19.80) TURF Operation & Maintenance for 4th Year: ZOYSIA JAPONICA (MAT) (Non SOR Item) IRRIGATION Operation & Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year Operation & Maintenance for 4th Year: watering with tanker to landscape area and plants are adequately watered; by means of drip irrigation for trees , sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item) Maintenance for 4th Year: Sqm 3.00 27.74 55 Cum 2.00 27.74 55 Cum 2.00 27.74 55 Cum 2.00 27.74 55 Cum 2.00 2.00 2.00 27.74 55 2.00 2.00 2.00 2.00 2.00 2.00 2.00	64.00	KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307		2.00	131.43	263
Maintenance for 4th Year: KSRRB M300-3.Making lawns including ploughing and breaking of clod,removal of rubbish,dressing and supplying doobs grass roots and planting at 15 cm apart,including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications. MORTH Specification No.307 (KSRRB 19.80) TURF Operation & Maintenance for 4th Year: ZOYSIA JAPONICA (MAT) (Non SOR Item) IRRIGATION Operation & Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year Operation & Maintenance for 4th Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees , sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item)	65.00	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge	Cum	2.00	27.74	55
KSRRB M300-3.Making lawns including ploughing and breaking of clod,removal of rubbish, dressing and supplying doobs grass roots and planting at 15 cm apart, including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications. MORTH Specification No.307 (KSRRB 19.80) TURF 67.00 Operation & Maintenance for 4th Year: ZOYSIA JAPONICA (MAT) Sqm 3.00 181.89 546 (Non SOR Item) IRRIGATION 68.00 Operation & Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year Operation & Maintenance for 4th Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees , sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item)		Soil preparation of Lawn				
Operation & Maintenance for 4th Year: ZOYSIA JAPONICA (MAT) (Non SOR Item) IRRIGATION 68.00 Operation & Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year Operation & Maintenance for 4th Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees , sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item) Sqm 3.00 181.89 546 1.00 34534.45 34,534 Sqm 3.00 649.60 1,949	66.00	KSRRB M300-3.Making lawns including ploughing and breaking of clod,removal of rubbish,dressing and supplying doobs grass roots and planting at 15 cm apart,including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications. MORTH Specification No.307	Sqm	382.19	131.43	50,231
67.00 ZÓYSIA JAPONICA (MAT) (Non SOR Item) IRRIGATION 68.00 Operation & Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year Operation & Maintenance for 4th Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees , sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item) Sqm 3.00 181.89 546 Year 1.00 34534.45 34,534		TURF				
Operation & Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year Operation & Maintenance for 4th Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees , sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item) 1.00 34534.45 34,534 Sqm 3.00 649.60 1,949	67.00	ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	3.00	181.89	546
supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees , sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item) Sqm 3.00 649.60 1,949	68.00	Operation & Maintenance for 4th Year:	Year	1.00	34534.45	34,534
Total 41 90 218	69.00	supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees, sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed.	Sqm	3.00	649.60	1,949
					Total	41,90,218

Name of the Work :- Mangalore Smart City
8.2 M.S. For Maintenance of Road and Other Work for DPR 5- 4th Year

	8.2 M.S. For Maintenance of Road and Othe	VVOIKI	OI DPK 3- 4	tin rear			
Sr.No.	Specification	Unit	No.	L	В	D	Qty.
	Civil Works						
1.00	Maintenance for 4th Year: Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA attached)	Sqm	1	7	2		14.00
2.00	Maintenance for 4th Year: KSRRB M200.Dismantling of cement concrete pavement by mechanical means using pueumatic tools,breaking to pieces not exceeding 0.02 cum in volume and stock pilling at designated locations and disposal of dismantled material stacking serviceble and unserviceable materials separately complete as per specifications.MORTH specification No.202.(Including transporting charges,loading and unloading for lead 5km-Extra) (Page No 138,SI No : 18.47)	Cum	5	3.5	3.5	0.3	18.38
3.00	Maintenance for 4th Year: KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M200-26. Dismantling Kerb stone by Manual means and disposal of dismantled materials with all lifts and complete as per specifications.MORTH Specification No.202. (Page No.139,S.I.No.18.49)	Rmt	1	20			20.00
4.00	Maintenance for 4th Year: KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202 (KPWD SOR 16-17,18.20,Page No.137)	Cum	1	40	1	0.5	20.00
5.00	Maintenance for 4th Year: KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonary, cement concrete, woodwork, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i)Dismantaling Brick/Tile work B.In Cement mortar (Page No 137,SI No : 18.23)	Cum	10	3	0.5	0.23	3.45
6.00	Maintenance for 4th Year: KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 1.00Km and complete as per specifications. MORTH specification No.301(Including transporting charges, loading and unloading for lead 5km) (Page No 143,SI No : 19.14)	Cum	1.00	100	5	0.5	250.00
7.00	Maintenance for 4th Year: KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(KPWD 16-17,SI No.2.11,Pg. No.6)	Cum	1.00	30	5	0.5	75.00
8.00	Maintenance for 4th Year: KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3.(KPWD 16-17,SI No.19.64,Pg. No.149)	Sqm	1.00	100		5	500.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
9.00	Maintenance for 4th Year: KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2015-16)	Cum	1.00	15	5	0.1	7.50
10.00	Maintenance for 4th Year: KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material	Cum	1.00	50	5	0.15	37.50
11.00	Maintenance for 4th Year: KSRB 4.2.1 : Providing and laying in position reiforcement cement concrete of design Mix M25 with OPC cement @340Kgs,with 20mm and down size graded granite metal coarse aggregate @ 0.47 cum with super plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 at machine mixed,concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls,return walls,walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of machinery,curing,complete but excluding cost of reinforcement as per specifications. (Page No 13,SI No : 4.10)	Cum	1.00	200	0.2	1.2	48.00
12.00	Maintenance for 4th Year: KSRB 4.6.1 Providing and removing centering, shuttering, strutting, propping etc.,and removal of formwork for foundations, footings, bases of columns for mass concrete including cost of all materials,labour complete as per specifications. Specification No. KSB 4.6.2 (Page No 15,SI No: 4.28)	Sqm	2.00	200		0.9	360.00
13.00	Maintenance for 4th Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work including straighting, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to thr adjoing members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinary complete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500	МТ	1.00	3.84			3.84
14.00	Maintenance for 4th Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of sub-grade with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory roller to 97% of proctors density) MORTH Specification No. 305	Cum	10.00	3.5	3.5	0.5	61.25
15.00	Maintenance for 4th Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications.Morth specification No.601 (Page No 176,SI No : 22.1)	Cum	10.00	3.5	3.5	0.1	12.25

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
16.00	Maintenance for 4th Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,Manually laid and compacting with palte compactor,finishing and curing complete as per specifications.Morth specification No.601 (RA attached)	Cum	1.00	100	2	0.1	20.00
17.00	Maintenance for 4th Year: KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars at 4.5m intervals, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per sprcifications MORTH specification No.602.do with M40 (420Kg per cum Cement,C.A,0.67 cum F.A.044Cum (Page No 176,SI No : 22.2.2.)	Cum	10.00	3.5	3.5	0.23	28.18
18.00	Maintenance for 4th Year: Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealant manufacturer recommends and pouring the sealant all complete including material, manpower (Non SOR Item)	Rmt	1.00	650			650.00
19.00	Maintenance for 4th Year: KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints longitudinal joints and expansion joints in concrete pavement using epoxy mortar concrete complete as per specifications.Morth specification No.3005.1 (Page No 257,SI No : 35.8)	Rmt	1.00	650			650.00
20.00	Maintenance for 4th Year: Providing and laying at or near ground level factory made kerb stone of M-20 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	Cum	1	1	0.1		0.10
21.00	(RA Attached) Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of CC 1:2:4 and Jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3)	Cum	1	100	0.03		2.79
22.00	Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,made out of CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3)	Cum	1	100	0.01		1.18

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
23.00	Maintenance for 4th Year: Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-in-charge.	Rmt	100				100.00
24.00	Maintenance for 4th Year: KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No 182,SI No : 24.1)	Sqm	1	500	0.17		82.50
25.00	Maintenance for 4th Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting.	Nos.	5.00				5.00
26.00	Maintenance for 4th Year: P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached)	Nos.	5.00				5.00
27.00	Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm at level footpath. (Rate analysis attached)	Nos.	5.00				5.00
28.00	Maintenance for 4th Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes to the required alignments including specials and grade as indicated in drawings/design and hydraulically testing of the pipe line. The rate shall include all jointing materials, testing apparatus and water for testi g etc as directed by the Engineer in charge (page No.41, Item No.7, KUWSDB SOR 2016-17)	Rmt	20.00	1.00			20.00
29.00	Maintenance for 4th Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100mm dia, of self cleaning design with screwed down or hinged grating with or without vent arm including cutting and making good the walls and floors, cost of materials, labour, testing, complete as per specifications Specification No. KBS 11.1.10. (PWD SR 2015-16,P.No.86, SI.No.12.89)	Nos.	20.00				20.00
30.00	Maintenance for 4th Year: KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings complete as per specifications. Case-III:Triple row for three utility services. (PWD SR 2015-16,SI.No.24.36)	Rmt	1	20.00			20.00
31.00	Maintenance for 4th Year: Providing and laying Dia 200mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5,Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7.The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years. (Market Rate)	Rmt	1	150			150.00
32.00	Maintenance for 4th Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5,Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7.The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years.(Market Rate)	Rmt	1	100			100.00
33.00	Maintenance for 4thYear: Providing and Fixixng Spacers for Power Ducts of size 225 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20				20.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
34.00	Maintenance for 4th Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20				20.00
35.00	Maintenance for 4th Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lubricant inner layer for ICT fibre cables comforming to ASTMF 2160 and /or equivalent indian standard and conveying to work site including loading and unloading at both destination and rolling,lowering into trenches,laying true to line and jointing of pipe etc.Complete. (Market Rate)	Rmt	1	40			40.00
36.00	Maintenance for 4th Year: Supplying and Application charges required for stamping the freshly laid new concrete (Concrete rate is not included in this item) including finishing and colouring the top surface accurately to the required level, shape and size using approved colour shade and staping it using approved stamp pattern and antiquitting it on top with approved colour. Sealing entire area with concrete sealer.	Sqm	1	100	2		200.00
37.00	Maintenance for 4th Year: Providing and laying heavy duty cobble stones 75mm thick, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 30mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. (Page No 101,SI No: 14.7)	Sqm	1.00	50	1.5		75.00
38.00	Maintenance for 4th Year: KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No. 507 -using 100/120 TPH capacity H.M.P. with sensor paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 16-17,S.I.No.21.17.1,Page No.163)	Cum	2.00	2.5	8	0.15	6.00
39.00	Maintenance for 4th Year: KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-40 Bitumen	Cum	2.00	2.5	8	0.04	1.60
40.00	Maintenance for 4th Year: KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications	Nos.	50.00				50.00
41.00	Maintenance for4th Year: Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface:Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area,thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be level,uniform and free from streak and holes complete as per specifications.MORTH specification No.803 (Page No 192,SI No : 24.57)	Sqm	1.00	4000	0.15		600.00
42.00	Maintenance for 4th Year: Operation and Maintenance for eToilets Stainless Steel Public Model as specified in Road and Other works BOQ Item No.45.	Nos	3.00				3.00
43.00	Maintenance for 4th Year: Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	2.00				2.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
44.00	Maintenance for 4th Year: Providing and fixing of railing as detail design in MS HOLLOW SECTION and bars (shop drawing to be approved), with vertical support of 0.9m @2.2mc/c, all complete to the satisfaction of the Landscape architect.(Non SOR Item)	MT	1.00	0.1			0.10
45.00	Maintenance for 4th Year: Excavation and removal of silt and silt mixed with sand in slussy condition from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with lead upto 50 m and all lifts. For Desilting of drains and grit chambers including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-in-charge.	Cum	2.00	7250	0.7	0.1	1015.00
46.00	Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Earth	Cum	1.00	200			200.00
47.00	Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Debris	Cum	1.00	70			70.00
48.00	Electrical Works Maintenance for 4th Year: Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required (Delhi analysis of rates E & M 2016, item 12.42, pg 395))	Nos.	1				1.00
49.00	Maintenance for 4th Year: Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with oor opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 m pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 155 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5)	Nos.	1				1.00
50.00	Maintenance for 4th Year: Lighting Pole, 4 m Fabrication, supply and erection of 4 meters long hot dip Galvanised Octagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, icluding suitable boards, bakelite sheet and MCBs as per IS specifications suitable for wind speed of 47 m/sec for 5 4 pole in single section and single joint welded as per IS 9595/IS 10178 AWG having dimensions bottom 130 mm dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No.5.14.2)	Nos.	1				1.00
51.00	Maintenance for 4th Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5)	Nos.	1				1.00
52.00	Maintenance for 4thYear: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2)	Nos.	1				1.00
53.00	Maintenance for 4th Year: Painting of Existing street light pole after scrapping the old paint and painted with suitable colour enamel including coping/footing of the pole8mtr and above street light pole (Ref Electrical SOR SI No.16.28.3)	Nos.	242.00				242.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
54.00	Maintenance for 4th Year: Supply, installation, testing and commissioning of outdoor junction box for mounting MCB/Contactors with all required accessories and componenets	Nos.	1.00				1.00
55.00	Maintenance for 4th Year: Supply and fixing of miniature circuit breaker on exisiting board using necessasary fixing material and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10 KA complete wiring as required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5)	Nos.	1.00				1.00
	LT Cable Maintenance for 4th Year:						
56.00	Supplying of 1.1 kV LT cable having aluminium conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)	m	1	60.00			60.00
57.00	Maintenance for 4th Year: Supply and drawing flexible multicore cable with electrolyte grade flexible copper with low conductor conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insulation and sheathed suitable for working voltage up to 1100 V as per IS-694:1990 and conforming to GTP of Group A. 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	m	1	10.00			10.00
58.00	Operation & Maintenance for 4th Year: Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6)	Nos	10				10.00
59.00	Operation & Maintenance for 4thYear: Supplying tinned copper lugs and crimping and wiring to terminal point for wire of following sizes 2.5 sq. mm copper conductor (Ref Electrical SOR SI No.7.21.2)	Nos	8				8.00
60.00	Earthing system Maintenance for 4th Year: Chemical Earthing for grounding,conduits,IC cut outs and otherequipmentson the mter boardby using copper /SS rod with earth enhancing backfill compound which is non corrosive ,thermally,conductive,potential,to permissible,limits,superior,fault,conductive capacity,non toxic,weather resistance and capable of achieving ohmic value less than one ohm (Ref Electrical SOR Pg.No.64,SI No.7.23.6)	Kit	1				1.00
61.00	Maintenance for 4th Year: Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3)	Rmt	1	50			50.00
	Landcaping Works SOIL MIXES and Ground Preparation						
62.00	Maintenance for 4th Year: Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item)		1	20	0.5	0.15	1.50
63.00	Maintenance for 4th Year: KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)	Cum	1	15	0.5	0.1	0.75
64.00	Maintenance for 4th Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77)	Cum	1	40	0.5	0.1	2.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
65.00	Maintenance for 4th Year: Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)	Cum	1	40	0.5	0.1	2.00
	Soil preparation of Lawn						
66.00	Maintenance for 4th Year: KSRRB M300-3.Making lawns including ploughing and breaking of clod,removal of rubbish,dressing and supplying doobs grass roots and planting at 15 cm apart,including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications. MORTH Specification No.307 (KSRRB 19.80)	Sqm	1.00	382.19			382.19
	TURF						
67.00	Maintenance for 4th Year: ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	1	5	0.6		3.00
	IRRIGATION						
68.00	Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year	Year	1.00				1.00
69.00	Maintenance for 4th Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees, sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item)	Sqm	1	5	0.6		3.00

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 8.3 R.A. For Maintenance of 4th Year - DPR 5

	8.3 K.A. For Maintenance of 4th Year -	טרא ס		
	Maintenance for 4th Year:	_		
	Taking out existing CC interlocking paver blocks from footpath/ ce		•	
1	etc., disposal of unserviceable material to the dumping groun			
	separately and stacking of serviceable material within 50 metre	e lead a	s per direction	of Engineer-in-
	Charge.(RA attached)	ı		
	Basic rate		68.16	
	Maintenance- 4th year escalation of 16%		10.91	
		Rate	79.07	Sqm
	Maintenance for 4th Vocas			
	Maintenance for 4th Year: KSRRB M200.Dismantling of cement concrete pavement by	maahar	sical magne us	sina nuoumotio
	tools, breaking to pieces not exceeding 0.02 cum in volume and s			• .
2	disposal of dismantled material stacking serviceble and unservice			
2	per specifications.MORTH specification No.202.(Including transpo		•	•
	lead 5km-Extra)	Jiting Crit	arges, loading arr	a dilibading for
	(Page No 138,SI No : 18.47)			
	Basic rate		899	
	Maintenance- 4th year escalation of 16%		143.84	
	Add 10% For area weightage (Mangalore City)		104.28	
	riad 10701 of area maigritage (mangalete enj)	Rate	1147.12	Cum
		110.00		
	Maintenance for 4th Year:	I	L	
	KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M2	200-26. E	Dismantling Kerb	stone by
3	Manual means and disposal of dismantled materials with all lifts an		•	•
	specifications.MORTH Specification No.202.	-		
	(Page No.139,S.I.No.18.49)			
	Basic rate		12.00	
	Maintenance- 4th year escalation of 16%		1.92	
	Add 10% For area weightage (Mangalore City)		1.39	
		Rate	15.31	Rmt
	Maintenance for 4th Year:			
	KSRRB M200-13.1. Dismantling of existing structures like culve		•	
	structure comprising of masonry, cement concrete, wood work, st		_	_
4	wherever necessary, sorting the dismantled material, disposal of			_
	serviceable material with all lifts complete as per specifications. Concrete Grade M-15 &M-20. MORTH Specification No. 202 (KPW			
	Concrete Grade W-13 &W-20. MONTH Specification No. 202 (NF W	7D 30K	10-17,10.20,Fag	e No. 137)
	Basic rate		390	
	Maintenance- 4th year escalation of 16%		62.4	
	Add 10% For area weightage (Mangalore City)		45.24	
		Rate	497.64	Cum
	Maintenance for 4th Year:			
	KSRRB M200-12.1. Dismantling of existing structures like culve			
_	structure comprising of masonary, cement concrete, woodwork, st			
5	wherever necessary, sorting the dismantled material, disposal of	unservice	eable material a	nd stacking the
	serviceable material with all lifts complete as per specifications.			
	i)Dismantaling Brick/Tile work B.In Cement mortar			
	(Page No 137,Sl No : 18.23) Basic rate	I	054	
			351 56.16	
	Maintenance- 4th year escalation of 16%		56.16	
		Rate		Cum

	Mat days and for All Man			
6	Maintenance for 4th Year: KSRRB M300-14. Excavation for roadwork in all types of soil capacity including cutting and loading in tippers,trimming botto requirements of lines and grades and cross sections,and transp	m and s	side slopes,in a	ccordance with
	1.00Km and complete as per specifications. MORTH specification No.301(Including transporting charges, loadi (Page No 143,Sl No : 19.14)	ng and u	nloading for lead	d 5km)
	Basic rate		41	
	Maintenance- 4th year escalation of 16%		6.56	
	Add 10% For area weightage (Mangalore City)		4.76	
	3 3 (3 7)	Rate	52.32	Cum
7	Maintenance for 4th Year: KSRB 2-4: Refilling available earth around pipe lines, cables ir compacting each deposited layer by ramming after watering wi including cost of all labour complete as per specifications.(KPWD	th lead ι	upto 50m. and	lift upto 1.5 m.
	Basic rate		120	
	Maintenance- 4th year escalation of 16%		19.2	
	Add 10% For area weightage (Mangalore City)		13.92	
		Rate	153.12	Cum
8	KSRRB 300-Compaction KSRRB 300-58. Compaction of original of 10 tonnes power roller including filling in depression occuring durin HOM of machinery complete as per specifications. MORTH / Chap No.149)	g rolling i	ncluding cost of	all labour,
	Basic rate		6	
	Maintenance- 4th year escalation of 16%		0.96	
	Add 10% For area weightage (Mangalore City)		0.7	
		Rate	7.66	Sqm
9	Maintenance for 4th Year: KSRB 4-1.6; Providing and laying in position plain cement cond 240kgs, with 20mm and down size graded granite metal coal aggregtes @ 0.459cum, machine mixed, concrete laid in layer compacted, in foundation, plinth and cills, ncluding cost of all mater complete as per specifications. Specification No. KBS 4.1, 4.2. (P.I.)	rse aggr ers not e erials, lab	egates @ 0.69 exceeding 15 coour, HOM of m	cum and fine ms. thick, well achinery, curing
	Basic Rate		5900	
	Maintenance- 4th year escalation of 16%		944	
	Add 10% For area weightage (Mangalore City)		684.4	
		Rate	7528.40	Cum
10	Maintenance for 4th Year: KSRRB M400-6.1. Construction of granular sub-base by providing of granite / trap / basalt material, mixing in a mechaical mix plan work site, spreading in uniform layers with motor grader on prep compactor to achieve the desired density, complete as per spec graded granular sub-base material as per 400-1 For Grading- II Ma	t at OMC ared surf cifications	C, carriage of mage and compa	ixed material to
	Rasic Pata	1	0466	
	Basic Rate Maintenance, 4th year escalation of 16%		2166	
	Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City)		346.56 251.26	
	Aud 10% For area weightage (Mangalore City)	Doto		Cum
		Rate	2763.82	Cum

	T	l	<u> </u>	
	Maintanana fan Alle Van			
11	Maintenance for 4th Year: KSRB 4.2.1: Providing and laying in position reiforcement cemer cement @340Kgs,with 20mm and down size graded granite me super plasticisers @3 liters confirming to IS 9103-1999 reafirmed layers not exceeding 15cms thick, vibrated for all works in foun walls,return walls,walls (any thickness) including attached p buttresses, bed blocks,anchor blocks & plinths etc.,I machinery,curing,complete but excluding cost of reinforcement as (Page No 13,SI No : 4.10)	tal coars -2008 at dation foilasters, ncluding	se aggregate @ machine mixed,cor footings, pedas columnspillars, cost of lab	0.47 cum with concrete laid in stals, retaining
	Basic Rate		6198	
	Maintenance- 4th year escalation of 16%		991.68	
	Add 10% For area weightage (Mangalore City)		718.97	
	3 () , , , , , , , , , , , , , , , , , ,	Rate	7908.65	Cum
	Maintenance for 4th Year:			
12	KSRB 4.6.1 Providing and removing centering, shuttering, strutting for foundations, footings, bases of columns for mass concrete complete as per specifications. Specification No. KSB 4.6.2 (Page No 15,SI No : 4.28)			
	Basic Rate		263	
	Maintenance- 4th year escalation of 16%		42.08	
	Add 10% For area weightage (Mangalore City)		30.51	
		Rate	335.59	Sqm
13	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting,cutting,bending,hooking,placing in position,lapping and/ binding wire and anchoring to thr adjoing members wherever neces (laps,hooks and wastage shall not be measured and paid) cost of r complete as per specifications.Specification No. KBS4.6.3. do with TMT bars Fe500	or weldin ssary con	nplete as per des labour,HOM of m	ign
	Basic Rate		70782	
	Maintenance- 4th year escalation of 16%		11325.12	
	Add 10% For area weightage (Mangalore City)	Doto	8210.71	MT
		Rate	90317.83	IVI I
14	Maintenance for 4th Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of Subgrade. KSRRB M300-55. Construction Gravel/Murrum with all lifts & leads, transporting to site, sprompacted to meet requirement of Table No. 300-2 complete as powering charges & compaction by vibratory rollercompaction by vibratory Specification No. 305	oreading, er specifi	grading to require cations (including	ed slope and cost of earth,
	Basic Rate		513	
	Maintenance- 4th year escalation of 16%		82.08	
	Add 20km lead (17.4 KSRRB M100-4.1-Cost of haulage excluding		32.00	
	loading and unloading MORTH-100/Chapter 1-case 1-Surface			
	Road)=2.5 Rs/ Tkm x 1.28 T x 20km		51.2	
	Sub Total		646.28	
	Add 10% For area weightage (Mangalore City)		64.63	
		Rate	710.91	Cum

	Maintenance for 4th Year:							
15	KSRRB M600-1.Construction of dry lean cement concrete @160Kgs,with 25mm and down size graded granite/trap/basalt n fine aggregate @ 0.58cum Sub-base over prepared sub grade wit to IS:383) aggregate cement ration not to excee 15:1. Aggregat Table 600-1, cement content to be determined during trail length cless than 10Mpa at 7 days,mixed in a batching plant,transported sensor,compacting with 8-10 tonnes double drum vibratory rolle specifications.Morth specification No.601 (Page No 176,SI No : 22.1)	netal coa h (coarse e gradati constructi to site,la	rse aggregate as and fine aggresson after blending on, concrete staid with a pavering condition on the control of the control	at 0.86cum and gate confirming to be as per rength not to be with electronic				
	Basic Rate		4048					
	Maintenance- 4th year escalation of 16%		647.68					
	Add 10% For area weightage (Mangalore City)	Dete	469.57	C				
		Rate	5165.25	Cum				
16	KSRRB M600-1.Construction of dry lean cement concrete @160Kgs,with 25mm and down size graded granite/trap/basalt n fine aggregate @ 0.58cum Sub-base over prepared sub grade wit to IS:383) aggregate cement ration not to excee 15:1. Aggregat Table 600-1, cement content to be determined during trail length cless than 10Mpa at 7 days,mixed in a batching plant,transported to palte compactor,finishing and curing complete as per specifications (RA attached)	netal coa h (coarse e gradati constructi o site,Ma	rse aggregate as and fine aggression after blending fon, concrete standally laid and of	at 0.86cum and gate confirming to be as per rength not to be compacting with				
	Basic Rate		3680					
	Maintenance- 4th year escalation of 16%		588.8					
	Add 10% For area weightage (Mangalore City)		426.88					
		Rate	4695.68	Cum				
	sealent primer, joints sealant, debonding strip, dowel bars at 4.5m intervals, tie rod, admixtures a approved, curing compound, finishing to lines and grades as per drawing complete as per sprcification MORTH specification No.602.do with M40 (420Kg per cum Cement, C.A, 0.67 cum F.A.044Cum							
17	spread,compacted and finished in a continuos operation included construction and longitudinal joints,including groove cutting chrosealent primer, joints sealant, debonding strip, dowel bars at approved, curing compound,finishing to lines and grades as per	ling prov ges, joint 4.5m int drawing	ision of contracts filler, separation ervals, tie rod, complete as p	ixed form paver ction, expansio, on memberane, admixtures as er sprcifications				
17	spread,compacted and finished in a continuos operation included construction and longitudinal joints,including groove cutting chrosealent primer, joints sealant, debonding strip, dowel bars at approved, curing compound,finishing to lines and grades as per MORTH specification No.602.do with M40 (420Kg per cum Cemen	ling prov ges, joint 4.5m int drawing	ision of contracts filler, separation ervals, tie rod, complete as p	ixed form paver ction, expansio, on memberane, admixtures as er sprcifications				
17	spread,compacted and finished in a continuos operation included construction and longitudinal joints,including groove cutting chrosealent primer, joints sealant, debonding strip, dowel bars at approved, curing compound,finishing to lines and grades as per MORTH specification No.602.do with M40 (420Kg per cum Cemen (Page No 176,SI No : 22.2.2)	ling prov ges, joint 4.5m int drawing	ision of contra s filler,separation ervals, tie rod, complete as p 7 cum F.A.0440	ixed form paver ction, expansio, on memberane, admixtures as er sprcifications				
17	spread,compacted and finished in a continuos operation included construction and longitudinal joints,including groove cutting chrosealent primer, joints sealant, debonding strip, dowel bars at approved, curing compound,finishing to lines and grades as per MORTH specification No.602.do with M40 (420Kg per cum Cemen (Page No 176,SI No : 22.2.2) Basic Rate	ling prov ges, joint 4.5m int drawing	ision of contracts filler, separation of contracts rod, complete as property cum F.A.0440	ixed form paver ction, expansio, on memberane, admixtures as er sprcifications Cum				
17	spread,compacted and finished in a continuos operation included construction and longitudinal joints,including groove cutting chrosealent primer, joints sealant, debonding strip, dowel bars at approved, curing compound,finishing to lines and grades as per MORTH specification No.602.do with M40 (420Kg per cum Cemen (Page No 176,SI No : 22.2.2) Basic Rate Maintenance- 4th year escalation of 16%	ling prov ges, joint 4.5m int drawing	ision of contracts filler, separation of contracts filler, separation ervals, tie rod, complete as properties of complete as properties of complete as properties of complete as properties of contracts from F.A.0440	ixed form paver ction, expansio, on memberane, admixtures as er sprcifications				
17	spread,compacted and finished in a continuos operation included construction and longitudinal joints,including groove cutting chrosealent primer, joints sealant, debonding strip, dowel bars at approved, curing compound,finishing to lines and grades as per MORTH specification No.602.do with M40 (420Kg per cum Cemen (Page No 176,SI No : 22.2.2) Basic Rate Maintenance- 4th year escalation of 16%	ling provides, joint 4.5m int drawing t,C.A,0.6 Rate in the groy the sear the side	sision of contrars filler, separation of contrars filler, separation of contrars filler, separation of complete as property for the sealar filler, separation of the	ction, expansio, expansio, on memberane, admixtures as er sprcifications. Cum Cum ening the groove rer, cleaning the sealant				
	spread,compacted and finished in a continuos operation included construction and longitudinal joints, including groove cutting chrosealent primer, joints sealant, debonding strip, dowel bars at approved, curing compound, finishing to lines and grades as per MORTH specification No.602.do with M40 (420Kg per cum Cemen (Page No 176, SI No : 22.2.2) Basic Rate Maintenance- 4th year escalation of 16% Add 12% For area weightage (Mangalore City) Maintenance for 4th Year: Providing and placing joint sealant compound of cold polysulphide to required width, sand blasting the groove face if recommended b groove with air compressor, insertion of debonding strip, priming manufacturer recommends and pouring the sealant all complete in	ling provides, joint 4.5m int drawing t,C.A,0.6 Rate in the groy the sear the side	sision of contrars filler, separation of contrars filler, separation of contrars filler, separation of complete as property for the sealar filler, separation of the	ction, expansio, expansio, on memberane, admixtures as er sprcifications. Cum Cum ening the groove rer, cleaning the sealant				
	spread,compacted and finished in a continuos operation included construction and longitudinal joints, including groove cutting chrossealent primer, joints sealant, debonding strip, dowel bars at approved, curing compound, finishing to lines and grades as per MORTH specification No.602.do with M40 (420Kg per cum Cemen (Page No 176, Sl No : 22.2.2) Basic Rate Maintenance- 4th year escalation of 16% Add 12% For area weightage (Mangalore City) Maintenance for 4th Year: Providing and placing joint sealant compound of cold polysulphide to required width, sand blasting the groove face if recommended b groove with air compressor, insertion of debonding strip, priming manufacturer recommends and pouring the sealant all complete in (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer	ling provides, joint 4.5m int drawing t,C.A,0.6 Rate in the groy the sear the side	sision of contrars filler, separation of contrars filler, separation of contrars filler, separation of complete as property of cum F.A.0440 5765 922.4 802.49 7489.89 Doves after wide alant manufactures of the sealar material, manpox	ction, expansio, expansio, on memberane, admixtures as er sprcifications cum Cum cum ening the groove rer, cleaning the sealant				

	Operation & Maintenance for 4th Year:			
	KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar			
	KSRRB M3000-8 Repairs of spalled joints grooves of contraction	n joints Ion	igitudinal joints a	and expansi
19	joints in concrete pavement using epoxy mortar concrete	•	•	•
	specification No.3005.1			
	(Page No 257,SI No : 35.8)			
	,		204	
	Basic Rate		331	
	Maintenance- 4th year escalation of 16%		52.96	
	Add 10% For area weightage (Mangalore City)	D . 1	38.4	D (
		Rate	422.36	Rmt
	Maintenance for 4th Year:			
	Providing and laying at or near ground level factory made kerb	stone of M	-20 grade ceme	nt concrete
	position to the required line, level and curvature, jointed with ceme		•	
	including making joints with or without grooves (thickness of joints			
20	than 5mm), including making drainage opening wherever requ			er direction
	Engineer-in-charge (length of finished kerb edging shall be measu		ment).	
	(Precast C.C. kerb stone shall be approved by Engineer-in-charge	:).		
	(RA Attached)			
	Rate Arrived as per Rate analysis			
	Basic Rate		17708.82	
	Maintenance- 4th year escalation of 16%		2833.41	
	A 1 1 4 0 0 / E		2054.22	
	Add 10% For area weightage (Mangalore City)			
	Add 10% For area weightage (Mangalore City)	Rate	22596.45	Cum
21	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost	the drawin	ng,made out of	CC 1:2:4 a
21	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per	the drawin	ng,made out of	CC 1:2:4 a
21	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3)	the drawin	ng,made out of terials,labour,hir	CC 1:2:4 a
21	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate	the drawin	ng,made out of terials,labour,hire	CC 1:2:4 a
21	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16%	the drawin	ng,made out of terials,labour,hird 15481.61 2477.06	CC 1:2:4 a
21	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate	the drawin	15481.61 2477.06 2155.04	CC 1:2:4 a
21	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16%	the drawin	ng,made out of terials,labour,hird 15481.61 2477.06	CC 1:2:4 a
21	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage	the drawin of all ma lete	15481.61 2477.06 2155.04	CC 1:2:4 a e charges
21	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year:	the drawin of all ma lete	15481.61 2477.06 2155.04	CC 1:2:4 ale charges
21	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudinal)	the drawin of all ma lete Rate	15481.61 2477.06 2155.04 20113.71	CC 1:2:4 ale charges Cum
21	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of the concrete water table (longitudina cost of the concrete water table)	the drawin of all ma lete Rate al gutter) as cost of all ma	15481.61 2477.06 2155.04 20113.71	CC 1:2:4 ale charges Cum
	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including of machinery,loading,unloading,lead and lift,transportation etc.,comp	the drawin of all ma lete Rate al gutter) as cost of all ma	15481.61 2477.06 2155.04 20113.71	CC 1:2:4 ale charges Cum
	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cost of the concrete water table (longitudina cost of the concrete water table)	the drawin of all ma lete Rate al gutter) as cost of all ma	15481.61 2477.06 2155.04 20113.71	CC 1:2:4 ale charges Cum
	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including comachinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3)	the drawin of all ma lete Rate al gutter) as cost of all ma	15481.61 2477.06 2155.04 20113.71 s per the drawin	CC 1:2:4 ale charges Cum
	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cmachinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate	the drawin of all ma lete Rate al gutter) as cost of all ma	15481.61 2477.06 2155.04 20113.71 s per the drawin naterials,labour,h	CC 1:2:4 ale charges Cum
	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including comachinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16%	the drawin of all ma lete Rate al gutter) as cost of all ma	15481.61 2477.06 2155.04 20113.71 s per the drawin naterials,labour,h	CC 1:2:4 ale charges Cum
	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cmachinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate	the drawin of all malete Rate al gutter) as cost of all melete	15481.61 2477.06 2155.04 20113.71 s per the drawin naterials,labour,h 15481.61 2477.06 1795.87	CC 1:2:4 ale charges Cum g,made out hire charges
	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including comachinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16%	the drawin of all ma lete Rate al gutter) as cost of all ma	15481.61 2477.06 2155.04 20113.71 s per the drawin naterials,labour,h	CC 1:2:4 ale charges Cum
	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cmachinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage	the drawin of all malete Rate al gutter) as cost of all melete	15481.61 2477.06 2155.04 20113.71 s per the drawin naterials,labour,h 15481.61 2477.06 1795.87	CC 1:2:4 ale charges Cum g,made out hire charges
	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cmachinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage	the drawin of all malete Rate al gutter) as cost of all malete Rate	15481.61 2477.06 2155.04 20113.71 s per the drawin naterials,labour,h 15481.61 2477.06 1795.87 19754.54	Cum Cum Cum Cum Cum
22	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cmachinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage Maintenance for 4th Year: Removing and resetting of kerb stones. including cost of all maintenance for 4th Year:	the drawin of all malete Rate al gutter) as cost of all malete Rate Rate	15481.61 2477.06 2155.04 20113.71 s per the drawin naterials,labour,h 15481.61 2477.06 1795.87 19754.54	Cum Cum Cum Cum Cum Cum
	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cmachinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage	the drawin of all malete Rate Rate Rate Rate Rate Rate Rate Rate	15481.61 2477.06 2155.04 20113.71 s per the drawin naterials,labour,h 15481.61 2477.06 1795.87 19754.54	Cum Cum Cum Cum Cum Cum
22	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,Sl No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cmachinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,Sl No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage Maintenance for 4th Year: Removing and resetting of kerb stones. including cost of all mawith all lead and lifts, labour charges including implementation of as per design, drawing, technical specifications and directions of E	the drawin of all malete Rate Rate Rate Rate Rate Rate Rate Rate	15481.61 2477.06 2155.04 20113.71 s per the drawin naterials,labour,h 15481.61 2477.06 1795.87 19754.54 affolding HOM of cental and Social -charge.	Cum Cum Cum Cum Cum Cum
22	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cmachinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage Maintenance for 4th Year: Removing and resetting of kerb stones. including cost of all mawith all lead and lifts, labour charges including implementation of as per design, drawing, technical specifications and directions of Easic rate	the drawin of all malete Rate Rate Rate Rate Rate Rate Rate Rate	15481.61 2477.06 2155.04 20113.71 s per the drawin naterials,labour,h 15481.61 2477.06 1795.87 19754.54 affolding HOM dental and Social -charge.	Cum Cum Cum Cum Cum Cum
22	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per Jointed with CM 1:3 and finishing cutting, including cost machinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,Sl No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage Maintenance for 4th Year: Providin and fixing pre cast solid concrete water table(longitudina CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including cmachinery,loading,unloading,lead and lift,transportation etc.,comp (Page No 25,Sl No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage Maintenance for 4th Year: Removing and resetting of kerb stones. including cost of all mawith all lead and lifts, labour charges including implementation of as per design, drawing, technical specifications and directions of E	the drawin of all malete Rate Rate Rate Rate Rate Rate Rate Rate	15481.61 2477.06 2155.04 20113.71 s per the drawin naterials,labour,h 15481.61 2477.06 1795.87 19754.54 affolding HOM of cental and Social -charge.	Cum Cum Cum Cum Cum Cum

	Maintenance for 4th Year:			
0.4	KSRRB 800-1. Painting two coats after filling the surface with	•		
24	on new plastered concrete surfaces, with materials, labour cor	mplete as per sp	ecifications. MC	DRTH
	Chapter 8			
	(Page No 182,SI No : 24.1)	<u> </u>	00	
	Basic Rate		80	
	Maintenance- 4th year escalation of 16%		12.8	
	Add 12% For area weightage (Mangalore City)		9.28	0
		Rate	102.08	Sqm
	Maintenance for 4th Year:			
25	P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame or	n Manhole for el	ectrical ducting.	
	As per Quotation			
	Basic Rate		10764	
	Discount 30%		-3229.2	
	Sub Total		7534.8	
	Fixing Charges @5%		753.48	
	Maintenance- 4th year escalation of 16%		1205.57	
		Rate	9493.85	Nos.
	Maintenance for 4th Year:			
26	P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at	raised footpath	on SWD.	
	(Rate analysis attached)			
	As per Quotation			
	no por quotation			
	Basic Rate		7179.00	
	Basic Rate Discount 30%		7179.00 -2153.7	
	Discount 30%		-2153.7	
	Discount 30% Sub Total		-2153.7 5025.3	
	Discount 30% Sub Total Fixing Charges @5%		-2153.7 5025.3 502.53	
	Discount 30% Sub Total	Rate	-2153.7 5025.3 502.53 804.05	Nos.
	Discount 30% Sub Total Fixing Charges @5%	Rate	-2153.7 5025.3 502.53	Nos.
	Discount 30% Sub Total Fixing Charges @5%	Rate	-2153.7 5025.3 502.53 804.05	Nos.
27	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year:		-2153.7 5025.3 502.53 804.05 6331.88	Nos.
27	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16%		-2153.7 5025.3 502.53 804.05 6331.88	Nos.
27	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached)		-2153.7 5025.3 502.53 804.05 6331.88	Nos.
27	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation		-2153.7 5025.3 502.53 804.05 6331.88	Nos.
27	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate		-2153.7 5025.3 502.53 804.05 6331.88	Nos.
27	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation		-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68	Nos.
27	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30%		-2153.7 5025.3 502.53 804.05 6331.88	Nos.
27	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total		-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6	Nos.
27	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5%		-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6 553.86	Nos.
27	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5%	at level footpatl	-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6 553.86 886.18	
27	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5%	at level footpatl	-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6 553.86 886.18	
27	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16%	n at level footpatl	-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6 553.86 886.18 6978.64	Nos.
27	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year:	Rate to the required	-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6 553.86 886.18 6978.64	Nos.
	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically te jointing materials,testing apparatus and water for testi g etc	Rate to the required esting of the pipe	-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6 553.86 886.18 6978.64 alignments includine. The rate shadow in the rate shadow i	Nos. uding special nall include a
	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically te jointing materials,testing apparatus and water for testi g etc No.41,ltem No.7,KUWSDB SOR 2016-17)	Rate to the required esting of the pipe	-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6 553.86 886.18 6978.64 alignments includine. The rate shape the Engineer in	Nos. uding special nall include a
	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically te jointing materials,testing apparatus and water for testi g etc No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate	Rate to the required esting of the pipe	-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6 553.86 886.18 6978.64 alignments includine. The rate shape in 297	Nos. uding special nall include a
	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically te jointing materials,testing apparatus and water for testi g etc No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance- 4th year escalation of 16%	Rate to the required esting of the pipe	-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6 553.86 886.18 6978.64 alignments includine. The rate shape the Engineer in	Nos. uding special nall include a
	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically te jointing materials,testing apparatus and water for testi g etc No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance- 4th year escalation of 16% Add 12% on Labor Charges=Rs.47,For area weightage	Rate to the required esting of the pipe	-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6 553.86 886.18 6978.64 alignments includine. The rate shape the Engineer in 297 47.52	Nos. uding special nall include a
	Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached) As per Quotation Basic Rate Discount 30% Sub Total Fixing Charges @5% Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically te jointing materials,testing apparatus and water for testi g etc No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance- 4th year escalation of 16%	Rate to the required esting of the pipe	-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6 553.86 886.18 6978.64 alignments includine. The rate shape in 297	Nos. uding specials

	Maintenance for 4th Year: KSRB 11-18-17.1: Providing and fixing sand cast iron trap of 100m	nm dia, o	f self cleaning d	esign with
	screwed down or hinged grating with or without vent arm including			
29	floors, cost of materials, labour, testing, complete as per specificati	ons Spec	cification No. KB	S 11.1.10.
	(PWD SR 2015-16,P.No.86, SI.No.12.89)			
	Basic Rate		830	
	Maintenance- 4th year escalation of 16%		132.8	
	Add 12% For area weightage (Mangalore City)		96.28	
		Rate	1059.08	Nos.
	Maintenance for 4th Year:) 4 Descri	معالم مناها	-f - wainfawaad
	KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-29		• • •	
	cement concrete pipe duct, 300 mm dia, across the road (new cor in cuts and toe of slope to toe of slope in fills, constructing head wa			
	of granular material over top and sides of RCC pipe as per IRC:98			
30	granular material free of rock pieces, outer to outer distance of			
50	minimum450 mm in case of double and triple row ducts, joints to b			
	be above higher than ground level to prevent entry of water a			
	approved drawings complete as per specifications. Case-III :Triple	e row for	three utility serv	ces.
	(PWD SR 2015-16,SI.No.24.36)			
	Basic Rate		5022	
	Maintenance- 4th year escalation of 16%		803.52	
	Add 12% For area weightage (Mangalore City)		582.55	
		Rate	6408.07	Rm
	Maintenance for 4th Year: Providing and laving Dia 200mm HDRE Floatrical pine Conduits wi	th Silicon	o Lubricant inno	r lavor with ribe
	Providing and laying Dia 200mm HDPE Electrical pipe Conduits will dimensional ratio of 13.5, Deflection not greater than 5% who will be supported by the conduits will be suppor			
31	temparature 90°C under the over burden soil presuure and of			
01	ASTMF 2160 and /or NEMA TC7. The expected service life of HD			
	not be less than 50 years.			
	(Market Rate)			
	Basic Rate		1471.08	
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		78	
	No.50,Pg.No.123)			
	Add 12% For area weightage (Mangalore City)		7.8	
	Sub Total		1556.88	
	Maintenance- 4th year escalation of 16%	D. L.	249.1	
		Rate	1805.98	Rm
	Maintenance for 4th Year:			
	I Waintenance for 4th Year:			
		th Ciliaar	a Lubricant inno	r lavor with riba
32	Providing and laying Dia 160mm HDPE Electrical pipe Conduits wi			
<u></u>	Providing and laying Dia 160mm HDPE Electrical pipe Conduits wi dimensional ratio of 13.5, Deflection not greater than 5% who is the conduits with the condu	en expo	sed to the no	rmal operating
02	Providing and laying Dia 160mm HDPE Electrical pipe Conduits wi dimensional ratio of 13.5, Deflection not greater than 5% wh temparature 90°C under the over burden soil presuure and of	en expo	sed to the no sical properties	rmal operating comforming to
<i>-</i>	Providing and laying Dia 160mm HDPE Electrical pipe Conduits wi dimensional ratio of 13.5, Deflection not greater than 5% wh temparature 90°C under the over burden soil presuure and of ASTMF 2160 and /or NEMA TC7. The expected service life of HD	en expo	sed to the no sical properties	rmal operating comforming to
<u> </u>	Providing and laying Dia 160mm HDPE Electrical pipe Conduits wi dimensional ratio of 13.5, Deflection not greater than 5% wh temparature 90°C under the over burden soil presuure and of ASTMF 2160 and /or NEMA TC7. The expected service life of HD not be less than 50 years. (Market Rate)	en expo	sed to the no sical properties conduits and a	rmal operating comforming to
<u> </u>	Providing and laying Dia 160mm HDPE Electrical pipe Conduits wi dimensional ratio of 13.5, Deflection not greater than 5% wh temparature 90°C under the over burden soil presuure and of ASTMF 2160 and /or NEMA TC7. The expected service life of HD not be less than 50 years. (Market Rate) Basic Rate	en expo	sed to the no sical properties conduits and ac 996.3	rmal operating comforming to
	Providing and laying Dia 160mm HDPE Electrical pipe Conduits wi dimensional ratio of 13.5,Deflection not greater than 5% wh temparature 90°C under the over burden soil presuure and of ASTMF 2160 and /or NEMA TC7.The expected service life of HD not be less than 50 years.(Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item	en expo	sed to the no sical properties conduits and a	rmal operating comforming to
	Providing and laying Dia 160mm HDPE Electrical pipe Conduits wi dimensional ratio of 13.5,Deflection not greater than 5% who temparature 90°C under the over burden soil presuure and of ASTMF 2160 and /or NEMA TC7. The expected service life of HD not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123)	en expo	sed to the no sical properties conduits and ac 996.3	rmal operating comforming to
	Providing and laying Dia 160mm HDPE Electrical pipe Conduits wi dimensional ratio of 13.5, Deflection not greater than 5% wh temparature 90°C under the over burden soil presuure and of ASTMF 2160 and /or NEMA TC7. The expected service life of HD not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123) Add 12% For area weightage (Mangalore City)	en expo	sed to the no sical properties conduits and ac 996.3 66	rmal operating comforming to
	Providing and laying Dia 160mm HDPE Electrical pipe Conduits wi dimensional ratio of 13.5,Deflection not greater than 5% who temparature 90°C under the over burden soil presuure and of ASTMF 2160 and /or NEMA TC7. The expected service life of HD not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123)	en expo	sed to the no sical properties conduits and ac 996.3	rmal operating comforming to
	Providing and laying Dia 160mm HDPE Electrical pipe Conduits wi dimensional ratio of 13.5, Deflection not greater than 5% wh temparature 90°C under the over burden soil presuure and of ASTMF 2160 and /or NEMA TC7. The expected service life of HD not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123) Add 12% For area weightage (Mangalore City) Sub Total	en expo	sed to the no sical properties conduits and ac 996.3 66 6.6 1068.9	rmal operating comforming to
	Providing and laying Dia 160mm HDPE Electrical pipe Conduits wi dimensional ratio of 13.5, Deflection not greater than 5% wh temparature 90°C under the over burden soil presuure and of ASTMF 2160 and /or NEMA TC7. The expected service life of HD not be less than 50 years. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123) Add 12% For area weightage (Mangalore City) Sub Total	en expo	sed to the no sical properties conduits and accordance with a sical properties and a sical properties and a sical properties and a sical properties and a sical properties and a sical properties and a sical properties and a sical properties are a sical properties and a sical properties and a sical properties and a sical properties and a sical properties and a sical properties are a sical properties and a sical properties and a sical properties are a sical properties and a sical properties are a sical properties and a sical properties are a sical properties and a sical properties are a sical properties and a sical properties are a sical properties and a sical properties are a sical properties and a sical properties are a sical properties and a sical properties are a sical properties and a sical properties are a sical properties and a sical properties are a sical properties and a sical properties are a sical properties and a sical properties are a sical properties and a sical properties are a sical properties and a sical properties are a sical properties and a sical properties are a sical properties and a sical properties are a sical	ormal operating comforming to ccessories shall

	Maintenance for 4th Year:			
	Providing and Fixixng Spacers for Power Ducts of size 225 mm,	to he nis	iced at an interva	of 1.5 mete
33		to be pia	iceu ai aii iiileiva	ii Oi 1.5 iiiele
	Spacers shall be made of ABS raw material.			
	(Market rate)	1	T	
	Basic Rate		1003	
	O&M 4th year escalation of 16%		160.48	
		Rate	1163.48	Nos.
	Maintenance for 4th Year:			
	Providing and Fixixng Spacers for Power Ducts of size 160 mm,	to be pla	ced at an interva	l of 1.5 mete
34	Spacers shall be made of ABS raw material.			
	(Market rate)			
		1	4047	
	Basic Rate		1947	
	Maintenance- 4th year escalation of 16%		311.52	
		Rate	2258.52	Nos.
	Maintenance for 4th Year:			
	Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lu	bricant ir	ner layer for IC	T fibre cable
	comforming to ASTMF 2160 and /or equivalent indian standar	d and co	nveying to work	site includir
35	loading and unloading at both destination and rolling, lowering into	trenches.	laving true to line	and iointing
	pipe etc.Complete.	,	,	and joining
	(Market Rate)			
	(Market Nate)			
	Basic Rate		561.7	
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		36	
	No.50,Pg.No.123)			
			3.6	
	Add 12% For area weightage (Mangalore City)		3.6 601.3	
	Add 12% For area weightage (Mangalore City) Sub Total		601.3	
	Add 12% For area weightage (Mangalore City)	Rate	601.3 96.21	Rm
	Add 12% For area weightage (Mangalore City) Sub Total	Rate	601.3	Rm
	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16%	Rate	601.3 96.21	Rm
	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year:		601.3 96.21 697.51	
200	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh	ly laid nev	601.3 96.21 697.51	rete rate is n
36	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surface.	ly laid nev	601.3 96.21 697.51 w concrete (Concately to the require	rete rate is ne
36	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approved.	ly laid nev	601.3 96.21 697.51 w concrete (Concately to the require	rete rate is ne
36	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approved with approved colour. Sealing entire area with concrete sealer.	ly laid nev	601.3 96.21 697.51 w concrete (Concately to the require pattern and antique)	rete rate is no
36	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate	ly laid nev	601.3 96.21 697.51 w concrete (Concately to the require pattern and antique 624.00	rete rate is no
36	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate Maintenance- 4th year escalation of 16%	ly laid nev	601.3 96.21 697.51 w concrete (Concately to the require pattern and antique 624.00 99.84	rete rate is no
36	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate	ly laid nev	601.3 96.21 697.51 w concrete (Concately to the require pattern and antique for the following for the	rete rate is no ed level,shap uitting it on to
36	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate Maintenance- 4th year escalation of 16%	ly laid nev	601.3 96.21 697.51 w concrete (Concately to the require pattern and antique 624.00 99.84	rete rate is no
36	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage (Mangalore City)	ly laid nevace accurated stamp	601.3 96.21 697.51 w concrete (Concately to the require pattern and antique for the following for the	rete rate is no ed level,shap uitting it on to
36	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage (Mangalore City) Maintenance for 4th Year:	ly laid nevace accurated stamp	601.3 96.21 697.51 w concrete (Concately to the require pattern and antique for the following for the	rete rate is need level,shapuitting it on to
36	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage (Mangalore City) Maintenance for 4th Year: Providing and laying heavy duty cobble stones 75mm thick	ly laid nevace accurated stamp Rate	601.3 96.21 697.51 w concrete (Concately to the require pattern and antique 624.00 99.84 72.38 796.22 cement and cou	rete rate is ned level,shapuitting it on to
36	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage (Mangalore City) Maintenance for 4th Year: Providing and laying heavy duty cobble stones 75mm thick manufacture of blocks of approved size, shape and colour with a result of the supplementation	ly laid nevace accurated stamp Rate using minimum	601.3 96.21 697.51 w concrete (Concately to the require pattern and antique for the following for the	rete rate is ned level,shapuitting it on to
	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage (Mangalore City) Maintenance for 4th Year: Providing and laying heavy duty cobble stones 75mm thick manufacture of blocks of approved size, shape and colour with a reper sqm over 30mm thick sand bed (average thickness) and continuous contents.	ly laid new ace accurated stamp Rate , using minimum apacting was according to the control of	601.3 96.21 697.51 w concrete (Concately to the require pattern and antique of the second of the se	rete rate is ned level,shapuitting it on to
36	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage (Mangalore City) Maintenance for 4th Year: Providing and laying heavy duty cobble stones 75mm thick manufacture of blocks of approved size, shape and colour with a result of the person over 30mm thick sand bed (average thickness) and concompaction force thereby forcing part of sand underneath to come	ly laid new ace accurated stamp Rate Rate ninimum npacting was up in better	601.3 96.21 697.51 w concrete (Concately to the require pattern and antique of the second of the se	rete rate is need level, shapuitting it on to
	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage (Mangalore City) Maintenance for 4th Year: Providing and laying heavy duty cobble stones 75mm thick manufacture of blocks of approved size, shape and colour with a reper sqm over 30mm thick sand bed (average thickness) and concompaction force thereby forcing part of sand underneath to come paver surface joints into its final level, including cost of materials.	ly laid new ace accurated stamp Rate Rate ninimum npacting was up in better	601.3 96.21 697.51 w concrete (Concately to the require pattern and antique of the second of the se	rete rate is noted level, shap uitting it on to Sqm Urse sand fingth of 281 in the having 3 tor compaction
	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage (Mangalore City) Maintenance for 4th Year: Providing and laying heavy duty cobble stones 75mm thick manufacture of blocks of approved size, shape and colour with a reper sqm over 30mm thick sand bed (average thickness) and concompaction force thereby forcing part of sand underneath to come paver surface joints into its final level, including cost of matecomplete as per specifications.	ly laid new ace accurated stamp Rate Rate ninimum npacting was up in better	601.3 96.21 697.51 w concrete (Concately to the require pattern and antique of the second of the se	rete rate is noted level, shap uitting it on to Sqm Urse sand fingth of 281 in the having 3 tor compaction
	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage (Mangalore City) Maintenance for 4th Year: Providing and laying heavy duty cobble stones 75mm thick manufacture of blocks of approved size, shape and colour with a reper sqm over 30mm thick sand bed (average thickness) and concompaction force thereby forcing part of sand underneath to come paver surface joints into its final level, including cost of materials.	ly laid new ace accurated stamp Rate Rate ninimum npacting was up in better	601.3 96.21 697.51 w concrete (Concately to the require pattern and antique of the second of the se	rete rate is need level, shapuitting it on to
	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage (Mangalore City) Maintenance for 4th Year: Providing and laying heavy duty cobble stones 75mm thick manufacture of blocks of approved size, shape and colour with a reper sqm over 30mm thick sand bed (average thickness) and concompaction force thereby forcing part of sand underneath to come paver surface joints into its final level, including cost of mate complete as per specifications. (Page No 101,SI No: 14.7)	ly laid new ace accurated stamp Rate Rate ninimum npacting was up in better	601.3 96.21 697.51 W concrete (Concately to the require pattern and antique for the following for the	rete rate is not ed level, shap uitting it on to Sqm Sqm urse sand for ngth of 281 for having 3 tor compaction
	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage (Mangalore City) Maintenance for 4th Year: Providing and laying heavy duty cobble stones 75mm thick manufacture of blocks of approved size, shape and colour with a reper sqm over 30mm thick sand bed (average thickness) and concompaction force thereby forcing part of sand underneath to come paver surface joints into its final level, including cost of materic complete as per specifications. (Page No 101,SI No: 14.7) Basic rate	ly laid new ace accurated stamp Rate Rate ninimum npacting was up in better	601.3 96.21 697.51 W concrete (Concately to the require pattern and antique for the following pattern and antique for the following for t	rete rate is not ed level, shap uitting it on to Sqm Sqm urse sand for ngth of 281 km having 3 tor compaction of the same compaction of
	Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfa and size using approved colour shade and staping it using approve with approved colour. Sealing entire area with concrete sealer. Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage (Mangalore City) Maintenance for 4th Year: Providing and laying heavy duty cobble stones 75mm thick manufacture of blocks of approved size, shape and colour with a reper sqm over 30mm thick sand bed (average thickness) and concompaction force thereby forcing part of sand underneath to come paver surface joints into its final level, including cost of mate complete as per specifications. (Page No 101,SI No: 14.7)	ly laid new ace accurated stamp Rate Rate ninimum npacting was up in better	601.3 96.21 697.51 W concrete (Concately to the require pattern and antique for the following for the	rete rate is not ed level, shap uitting it on to Sqm Sqm urse sand for ngth of 281 km having 3 tor compaction of 281 km.

	Maintenance for 4th Year:			
38	KSRRB M500-17. Providing and laying dense graded bituminous specified grading, premixed with VG30 grade bituminous binder at laying to the required grade, level and alignment, rolling with smoot to achieve the desired compaction as per MORTH table 500-10 c specifications MORTH Specification No. 507 -using 100/120 TPH (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 16-17,S.I.No.)	nd, transporth wheelestomplete I capacity	poorting the hot red, vibratory and in all respects of H.M.P. with se	mix to work site, d tandem rollers complete as per
	Basic rate		7839	
	Maintenance- 4th year escalation of 16%		1254.24	
	Add 10% For area weightage (Mangalore City)		909.32	
	may (manganere enj)	Rate	10002.56	Cum
39	Maintenance for 4th Year: KSRRB M500-19. Providing and laying bituminous concrete 40 mr aggregates of specified grading, premixed with bituminous binder a site, laying with a paver finisher to the required grade, level and vibratory and tandem rollers to achieve the desired compaction a 500.9 complete in all respects complete as per specifications. MO TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mr	and filler, alignmen as per M RTH Spe	transporting the at, rolling with s ORTH specifica ecification No. 5	hot mix to work mooth wheeled, ation clause No. 109 - using40/60
		T		
	Basic rate		8761	
	Maintenance- 4th year escalation of 16%		1401.76	
	Add 10% For area weightage (Mangalore City)	Data	1016.28	0
		Rate	11179.04	Cum
	in concrete or asphaltic surface by drilling hole 30 mm upto a depth bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 co		s per specificat	
	Sr.No.12		289.00	
	Maintenance- 4th year escalation of 16%		46.24	
		Rate	335.24	Sqm
41	Maintenance for 4th Year: Road Marking with hot applied Thermoplastic Compound with I Surface:Providing and laying of hot applied thermoplastic compound glass beads at 250 gms and 2 ltr of primer per sqm area,thick applied glass beads as per IRC:35.The finished surface to be leve complete as per specifications.MORTH specification No.803 (Page No 192,SI No : 24.57)	und 2.5m iness of	nm thick includi 2.5mm is exclu	ng reflectorising usive of surface
	Basic Rate		429	
	Maintenance- 4th year escalation of 16%		68.64	
	Add 10% For area weightage (Mangalore City)		49.76	
	in the second and manage (managered eng)	Rate	547.40	Sqm
			2	₁
42	Maintenance for 4th Year: Operation and Maintenance for eToilets Stainless Steel Public Mod BOQ Item No.45.	del as spe		and Other works
	Baisc rate		61200	
	Maintenance- 4th year escalation of 16%		9792	
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.1	Rate	70992	Nos.

	Maintenance for 4th Year:			
	Providing and fixing of S.S. Bollards(SS304) on footpath as specific	ed and dir	ected by Engine	er -in-chard
43	(NON SOR Item)	ou and an	cotou by Engine	o oa. 9
	(NOT COTT HOM)			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.13		4500.00	
	O&M 4th year escalation of 16%		720	
	Can in your occaration of 1070	Rate	5220	Nos.
		Itato	0220	1100.
	Maintenance for 4th Year:	<u> </u>	I	
	Providing and fixing of railing as detail design in MS HOLLOW SEC	CTION and	l bars (shop drav	wing to be
44	approved), with vertical support of 0.9m @2.2mc/c , all complete		, ,	•
	architect.(Non SOR Item)			•
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.26		100000.00	
	Maintenance- 4th year escalation of 16%		16000	
		Rate	116000	MT
	Maintenance for 4th Year:			
	Excavation and removal of silt and silt mixed with sand in slussy co	ondition fro	m canal bed incl	uding
	disposing off the same in spoil bank or on the canal embankment i			
45	lead upto 50 m and all lifts. For Desilting of drains and grit chambe			
70	scaffolding HOM of machineries with all lead and lifts, labour charge			
	Environmental and Social Safeguards & as per design, drawing, te		• .	
	, , , , , , , , , , , , , , , , , , , ,	отос ор		
	lEngineer-in-charge.			
	Engineer-in-charge.	1 1	170.00	
	Basic Rate		179.00	
		Rate	28.64	Nos
	Basic Rate	Rate		Nos.
	Basic Rate Maintenance- 4th year escalation of 16%	Rate	28.64	Nos.
	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year:		28.64 207.64	Nos.
46	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b		28.64 207.64	Nos.
46	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year:		28.64 207.64	Nos.
46	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth	eyond initia	28.64 207.64	Nos.
46	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth	eyond initia	28.64 207.64 al Lead 28x10km	Nos.
46	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate	eyond initia	28.64 207.64	Nos.
46	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-	eyond initia	28.64 207.64 al Lead 28x10km 25.60	Nos.
46	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1)	eyond initia	28.64 207.64 al Lead 28x10km 25.60 68.00	Nos.
46	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1	eyond initia	28.64 207.64 al Lead 28x10km 25.60 68.00 93.60	Nos.
46	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City)	eyond initia	28.64 207.64 al Lead 28x10km 25.60 68.00 93.60 9.36	Nos.
46	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2	eyond initia	28.64 207.64 al Lead 28x10km 25.60 68.00 93.60 9.36 102.96	Nos.
46	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City)	eyond initia	28.64 207.64 al Lead 28x10km 25.60 68.00 93.60 9.36 102.96 16.47	
46	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2	eyond initia	28.64 207.64 al Lead 28x10km 25.60 68.00 93.60 9.36 102.96	Nos.
46	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2 Maintenance- 4th year escalation of 16%	eyond initia	28.64 207.64 al Lead 28x10km 25.60 68.00 93.60 9.36 102.96 16.47	
	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2 Maintenance- 4th year escalation of 16% Maintenance for 4th Year:	eyond initia	28.64 207.64 21 Lead 28x10km 25.60 68.00 93.60 9.36 102.96 16.47 119.43	
	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2 Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b	eyond initia	28.64 207.64 21 Lead 28x10km 25.60 68.00 93.60 9.36 102.96 16.47 119.43	
	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2 Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris	eyond initia 2.0x1. Rate eyond initia	28.64 207.64 207.64 al Lead 28x10km 25.60 68.00 93.60 93.60 102.96 16.47 119.43	
46	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2 Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris Debris	eyond initia 2.0x1. Rate eyond initia	28.64 207.64 al Lead 28x10km 25.60 68.00 93.60 9.36 102.96 16.47 119.43 al Lead	
	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2 Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate	eyond initia 2.0x1. Rate eyond initia	28.64 207.64 207.64 al Lead 28x10km 25.60 68.00 93.60 93.60 102.96 16.47 119.43	
	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2 Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-4.1-M1	eyond initia 2.0x1. Rate eyond initia	28.64 207.64 207.64 al Lead 28x10km 25.60 68.00 93.60 93.60 102.96 16.47 119.43 al Lead 30x10Km 26.00	
	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2 Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1)	eyond initia 2.0x1. Rate eyond initia	28.64 207.64 207.64 al Lead 28x10km 25.60 68.00 93.60 93.60 102.96 16.47 119.43 al Lead 30x10Km 26.00 68.00	
	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2 Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1	eyond initia 2.0x1. Rate eyond initia	28.64 207.64 207.64 al Lead 28x10km 25.60 68.00 93.60 9.36 102.96 16.47 119.43 al Lead 30x10Km 26.00 68.00 94.00	
	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2 Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City)	eyond initia 2.0x1. Rate eyond initia	28.64 207.64 207.64 al Lead 28x10km 25.60 68.00 93.60 9.36 102.96 16.47 119.43 al Lead 30x10Km 26.00 68.00 94.00 9.4	
	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2 Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2	eyond initia 2.0x1. Rate eyond initia	28.64 207.64 207.64 al Lead 28x10km 25.60 68.00 93.60 9.36 102.96 16.47 119.43 al Lead 30x10Km 26.00 68.00 94.00 9.4 103.40	
	Basic Rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City) Sub Total-2 Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1 Add 12% For area weightage (Mangalore City)	eyond initia 2.0x1. Rate eyond initia	28.64 207.64 207.64 al Lead 28x10km 25.60 68.00 93.60 9.36 102.96 16.47 119.43 al Lead 30x10Km 26.00 68.00 94.00 9.4	

	,				
	Lighting Poles				
	Maintenance for 4th Year:				
48	Dismantling of pole/ street light standard/ strut embedded in cemer	nt concret	e		
10	foundation etc. as required				
	(Delhi analysis of rates E & M 2016, item 12.42, pg 395))				
	Basic Rate		938		
	Maintenance- 4th year escalation of 16%		150.08		
		Rate	1088.08	Nos.	
	Maintenance for 4th Year:				
	Lighting Pole, 7 m				
	Fabrication, suppl and erection of 7 meters long hot dip Galvanised	d Octagor	nal pole with BSI	E 10025 grade	
	S 355 JO steel plate for shaft, IS 2062 for base plate with oor open	ing arran	gement, icluding	suitable	
	boards, bakelite sheet and MCBs as per IS specifications suitable	for wind s	peed of 47 m/se	ec for 5 m pole	
49	in single section and single joint welded as per IS 9595/IS 10178 A	WG havii	ng dimensions b	ottom 155 mm	
	dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of	long J I	bolts along with	template and	
	the pole shall be hot dip galvanized in single dipping with not less t	han 65 m	icron as per AS	TM - A123 and	
	153 etc., (excluding foundation) as per drawing appended		•		
	(Ref Electrical SOR SI No. 5.14.5)				
	,				
	Basic rate		12420		
	Maintenance- 4th year escalation of 16%		1987.2		
	Ividifice 4th year escalation of 10%	Doto		Nee	
	Maintenance for Alle Vocas	Rate	14,407.20	Nos.	
	Maintenance for 4th Year:				
	Lighting Pole, 4 m		and and a with DC	NE 40005	
	Fabrication, supply and erection of 4 meters long hot dip Galvanise	•	•	•	
	S 355 JO steel plate for shaft, IS 2062 for base plate with door ope				
	boards, bakelite sheet and MCBs as per IS specifications suitable		•	•	
50	in single section and single joint welded as per IS 9595/IS 10178 A				
	dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of le	-	•	•	
	pole shall be hot dip galvanized in single dipping with not less than	65 micro	n as per ASTM -	- A123 and 153	
	etc., (excluding foundation) as per drawing appended				
	(Ref Electrical SOR SI No.5.14.2)				
		1			
	Basic rate		7398		
	Maintenance- 4th year escalation of 16%		1183.68		
		Rate	8,581.68	Nos.	
	Maintenance for 4th Year:				
	Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for	outdoor lu	uminaries and m	ounted on	
51	Octagonal pole using necessary bolts,nuts, etc. complete				
	Double Cross arm - 1500 mm				
	(Ref Electrical SOR SI No.5.18.5)				
	Basic rate		3540		
	Maintenance- 4th year escalation of 16%		566.4		
		Rate	4,106.40	Nos.	
	Maintenance for 4th Year:				
	Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for outdoor luminaries and mounted on				
52	Octagonal pole using necessary bolts, nuts, etc. complete				
	Single Cross arm - 1500 mm				
	(Ref Electrical SOR SI No.5.18.2)				
	Basic rate		2400		
	O&M 4th year escalation of 16%		384		
	Sam fair year education or 1070	Rate	2,784	Nos.	
	Maintenance for 4th Year:	itato	2,104	1100.	
	Painting of Existing street light pole after scrapping the old paint an	d nainted	l with suitable co	lour enamel	
53	including coping/footing of the pole8mtr and above street light pol	•	with Suitable CC	noui enantei	
	(Ref Electrical SOR SI No.16.28.3)	U			
	Basic rate	 	620		
-	Maintenance- 4th year escalation of 16%		99.2		
	INGINGINGS THE YEAR ESCALABOTT OF TO 70	Rate	719	Nos.	
L		Nate	119	1105.	

	Oudoor Box and Switch Gear				
	Maintenance for 4th Year:				
54	Supply, installation, testing and commissioning of outdoor junction box for mounting MCB/Contactors with all required accessories and componenets				
	Price list (Considering 30% discount , 18% GST & 10% profit)		11783		
	Maintenance- 4th year escalation of 16%		1885.28		
		Rate	13,668	Nos.	
55	Maintenance for 4th Year: Supply and fixing of miniature circuit breaker on exisiting board usi type curve, indicator ON/OFF, energy cross-3 with short circuit bre as required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5)	•	, ,		
	Basic rate		1547		
	Maintenance- 4th year escalation of 16%		247.52		
	·	Rate	1,795	Nos.	
			·		
	LT Cable				
56	galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as outer sheathed armoured cable as per IS - 1554 Part 1:1988 & cor 4 Core x16 Sq.mm PVC Aluminium Conductor,				
	(Ref Electrical SOR SI No.7.5,7.5.4)				
	(Ref Electrical SOR SI No.7.5,7.5.4)		117		
	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate		117 18.72		
	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 4th year escalation of 16%	Rate		Rm	
57	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supply and drawing flexible multicore cable with electrolyte grade f conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insworking voltage up to 1100 V as per IS-694:1990 and conforming to 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	lexible copp sulation and	18.72 135.72 per with low constant subsequently should be subsequently	onductor	
57	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supply and drawing flexible multicore cable with electrolyte grade f conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insworking voltage up to 1100 V as per IS-694:1990 and conforming to 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate	lexible copp sulation and	18.72 135.72 Der with low constant sheathed sure A.	onductor itable for	
57	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supply and drawing flexible multicore cable with electrolyte grade f conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insworking voltage up to 1100 V as per IS-694:1990 and conforming to 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	lexible copposal and control of C	18.72 135.72 Der with low constant sheathed surplements A. 81.6 13.06	onductor itable for	
57	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supply and drawing flexible multicore cable with electrolyte grade f conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insworking voltage up to 1100 V as per IS-694:1990 and conforming to 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate	lexible copp sulation and	18.72 135.72 Der with low constant sheathed sure A.	onductor itable for	
57	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supply and drawing flexible multicore cable with electrolyte grade f conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insworking voltage up to 1100 V as per IS-694:1990 and conforming to 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate	lexible copposition and to GTP of C	18.72 135.72 Der with low construction sheathed surplements of following	onductor itable for Rm	
	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supply and drawing flexible multicore cable with electrolyte grade from forming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insworking voltage up to 1100 V as per IS-694:1990 and conforming to 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying tinned copper lugs and crimping and wiring to terminal process of the sq. mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate	lexible copposition and to GTP of C	18.72 135.72 Der with low constraints and support to the support t	onductor itable for Rm	
	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supply and drawing flexible multicore cable with electrolyte grade from forming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insworking voltage up to 1100 V as per IS-694:1990 and conforming to 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying tinned copper lugs and crimping and wiring to terminal process of the sq. mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6)	Rate	18.72 135.72 Der with low constraints and support to the support t	onductor itable for Rm sizes	
	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supply and drawing flexible multicore cable with electrolyte grade from forming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insworking voltage up to 1100 V as per IS-694:1990 and conforming to 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying tinned copper lugs and crimping and wiring to terminal process of the sq. mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate	lexible copposition and to GTP of C	18.72 135.72 Der with low constraints and support to the support t	onductor itable for Rm	
	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supply and drawing flexible multicore cable with electrolyte grade from forming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insworking voltage up to 1100 V as per IS-694:1990 and conforming to 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying tinned copper lugs and crimping and wiring to terminal process of the sq. mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate	Rate Rate	18.72 135.72 Der with low construction in the surface of following 11.31 1.81 13.12	nductor itable for Rm	
58	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supply and drawing flexible multicore cable with electrolyte grade fronforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insworking voltage up to 1100 V as per IS-694:1990 and conforming 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying tinned copper lugs and crimping and wiring to terminal professional	Rate Rate	18.72 135.72 Der with low construction in the surface of following 11.31 1.81 13.12	nductor itable for Rm	
58	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supply and drawing flexible multicore cable with electrolyte grade from conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insworking voltage up to 1100 V as per IS-694:1990 and conforming to 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8) Basic rate Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying tinned copper lugs and crimping and wiring to terminal process of the second secon	Rate Rate	18.72 135.72 Der with low constraints and support to the support t	nductor itable for Rm	

		l l		
	Maintenance for 4th Year:	1	I	
60	Chemical Earthing for grounding,conduits,IC cut outs and othere copper /SS rod with earth enhancing backfill compound which is ,thermally,conductive,potential,to permissible,limits,superior,fault resistance and capable of achieving ohmic value less than one ohm	non corrosiv	re	
	(Ref Electrical SOR Pg.No.64,SI No.7.23.6)			
	Basic rate		5500	
	Maintenance- 4th year escalation of 16%		880	
		Rate	6380	Kit
61	Maintenance for 4th Year: Supply and running GI conductor for grounding and (along with cusing necessasary suitable size clamps, nails, guttas/spacers et (Ref Electrical SOR SI No.7.22.3)			of wiring)
	Basic rate		19.5	
	Maintenance- 4th year escalation of 16%	D-(-	3.12	D1
		Rate	22.62	Rmt
62	Maintenance for 4th Year: Supplying and stacking of good earth at site including royalty and measured in stacks will be reduced by 20% for payment). (Non SOR Item)	d carriage up	to 5 k.m. lead co	omplete (earth
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.27		140.00	
	01.140.2 <i>1</i>		170.00	
	Maintenance- 4th year escalation of 16%		22.4	
	Maintenance- 4th year escalation of 16%	Rate		Cum
63	Maintenance- 4th year escalation of 16% Maintenance for 4th Year: KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sou including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 4th year escalation of 16%	nanure KSRR urce, approve	22.4 162.40 RB M300-11. Sured by the engine Specification No. 204 32.64	pply at site o
63	Maintenance for 4th Year: KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sou including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate	nanure KSRR urce, approve	22.4 162.40 RB M300-11. Suled by the engine Specification No	pply at site o
63	Maintenance- 4th year escalation of 16% Maintenance for 4th Year: KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available sou including screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 4th year escalation of 16%	Rate e farm yard d good earth	22.4 162.40 RB M300-11. Suled by the engine Specification No. 204 32.64 23.66 260.30 manure or/ and in required thick	pply at site of eer in charge of 308.2(Page
	Maintenance for 4th Year: KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available socincluding screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage Maintenance for 4th Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge KSRRB M300-1. Spreading of sludge farm yard manure or/ and sludge, farm yard manure or/and good earth to be paid for semonth of the paid for semonth	Rate e farm yard d good earth	22.4 162.40 RB M300-11. Suled by the engine Specification No. 204 23.66 260.30 manure or/ and in required thick mplete as per second s	pply at site of eer in charge of 308.2(Page
	Maintenance for 4th Year: KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available socincluding screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage Maintenance for 4th Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge KSRRB M300-1. Spreading of sludge farm yard manure or/ and sludge, farm yard manure or/and good earth to be paid for semonth of the paid for semonth	Rate e farm yard d good earth	22.4 162.40 RB M300-11. Suled by the engine Specification No. 204 32.64 23.66 260.30 manure or/ and in required thick implete as per second 103 16.48	pply at site of eer in charge of 308.2(Page Cum
	Maintenance for 4th Year: KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available socincluding screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage Maintenance for 4th Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge KSRRB M300-1. Spreading of sludge farm yard manure or/ and sludge, farm yard manure or/and good earth to be paid for semonth of the paid for semonth	Rate e farm yard d good earth eparately) co	22.4 162.40 RB M300-11. Suled by the engine Specification No. 204 32.64 23.66 260.30 manure or/ and in required thick implete as per second 103 16.48 11.95	cum Cum d good earth cness (cost of specifications
	Maintenance for 4th Year: KSRRB M300-Supply at site of work well decayed farm yard m work well decayed farm yard manure, from any available socincluding screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage Maintenance for 4th Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge KSRRB M300-1. Spreading of sludge farm yard manure or/ and sludge, farm yard manure or/and good earth to be paid for semonth of the paid for semonth	Rate Rate Rate Rate Rate	22.4 162.40 RB M300-11. Suled by the engine Specification No. 204 32.64 23.66 260.30 manure or/ and in required thick implete as per second 103 16.48 11.95 131.43	Cum Cum Cum Cum Cum
64	Maintenance for 4th Year: KSRRB M300-Supply at site of work well decayed farm yard mork well decayed farm yard manure, from any available socincluding screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage Maintenance for 4th Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge KSRRB M300-1. Spreading of sludge farm yard manure or/ and sludge, farm yard manure or/and good earth to be paid for som MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area wightage Maintenance for 4th Year: Mixing earth and sludge or manure in the required proportion specification) Rate Approved as per EOI by MD MSCL Mangalore,Refer	Rate Rate Rate Rate Rate	22.4 162.40 RB M300-11. Suled by the engine Specification No. 204 32.64 23.66 260.30 manure or/ and in required thick implete as per second 103 16.48 11.95 131.43 cted by the Office	Cum Cum Cum Cum Cum
64	Maintenance for 4th Year: KSRRB M300-Supply at site of work well decayed farm yard mork well decayed farm yard manure, from any available socincluding screening and stackin complete as per specification No.152,SI.No.19.90) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage Maintenance for 4th Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge KSRRB M300-1. Spreading of sludge farm yard manure or/and sludge, farm yard manure or/and good earth to be paid for smooth of the second state	Rate Rate Rate Rate Rate	22.4 162.40 RB M300-11. Suled by the engine Specification No. 204 32.64 23.66 260.30 manure or/ and in required thick implete as per second 103 16.48 11.95 131.43	Cum Cum Cum Cum Cum

	T			1
	Maintanana far 4th Vany			
	Maintenance for 4th Year:	noriod of	one year inclu	dina watarina a
	Maintenance of lawns or Turfing of slopes (rough grassing) for a			
66	complete including cost of all materials, scaffolding HOM of m			
	charges including implementation of Environmental and Social	Salegua	ius & as pei i	design, drawin
	technical specifications and directions of Engineer-in-charge.			
	Basic rate		103	
	Maintenance- 4th year escalation of 16%		16.48	
	Add 10% For area wightage		11.95	
		Rate	131.43	Sqm
	TURF			
	Maintenance for 4th Year:			
67	ZOYSIA JAPONICA (MAT)			
	(Non SOR Item)			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.32		156.80	
	Maintenance- 4th year escalation of 16%		25.09	
		Rate	181.89	Sqm
	IRRIGATION			
68	Maintenance for 4th Year:			
00	Watering with tanker to landscape area and plants for one year			
	Water Tanker =61 Rs/ Hour, One Year Cost=92 days x 3 hrs x		16836	
	61rs/hr (365days-90 days of mansoon=275 days/3 days=92			
	days,consider watering at every 3 days)			
	Mazdoor = 0.5 days x 258.88		11908.48	
	Add 10% For area wightage		1190.848	
	Maintenance- 4th year escalation of 16%		4599.12	
		Rate	34534.45	Year
	Maintenance for 4th Year:			
	supply and fixing of irrigation lines such that all the green area			
	means of drip irrigation for trees , sub surface for shrubs and		is / ground cov	ers and pop
69	sprinklers for lawn areas. (Equipment make - Rainbird or equivale	•		1.6
	All material used should be comply to BSI code. All the necessar	ry value a	ına pump requi	rea for comple
	commissioning to be installed.			
	(Non SOR Item)		·	
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.34		560.00	
	Maintenance- 4th year escalation of 16%		89.6	
		Rate	649.60	Sqm

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru