Project Name: Manglore Smart City Grand Summary for Priority Road DPR 6

Sr. No.	Description	Cost In INR
1	Road and Other Works	39,63,36,592
2	Street Lighting	64,45,368
3	Landscape Work	2,20,184
	Construction Cost Sub Total	40,30,02,144
	GST @ 12% on Civil Constrction Cost (Refer 1.0 Abstract)	4,72,99,932
	Provision for Third Party Damages and Maintenance at 1 st Year(DLP-	39,63,351
	GST @12% on DLP Cost (Refer 5.1 Abstract)	2,76,713
	Maintenance Cost of 2nd,3rd and 4th Year	1,23,21,456
	GST @12% on Maintenanace Cost	11,73,949
	Escalation and Tender Premium @10%	403,00,214
	Add 3% Contengency	120,90,064
	Miscellaneous and Rounding off	72,177
	Grand Total	52,05,00,000

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 6

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	2032.08	74.98	1,52,365	
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	15.00	1003.20	15,048	
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	2396.00	13.20	31,627	
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	5771.42	429.00	24,75,939	
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	7.20	2082.30	14,993	
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	36877.35	42.90	15,82,038	
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	82988.60	42.90	35,60,211	
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,Sl No : 5.32)	Sqm	8241.60	107.80	8,88,444	

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.	187.50	4,211.90	7,89,731	
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	67366.10	56.36	37,96,754	
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	46232.58	132.00	61,02,700	
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	43500.98	6.60	2,87,106	
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	1818.24	6,490.00	1,18,00,401	
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	3567.48	2,382.60	84,99,871	
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	3480.74	2,640.00	91,89,154	
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	9799.67	6,817.80	6,68,12,197	

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	79195.16	289.30	2,29,11,159	
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	796.64	77,860.20	6,20,26,550	
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	7890.85	620.62	48,97,219	
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	2448.57	4,452.80	1,09,02,992	
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	263.47	4,048.00	10,66,527	
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	1713.06	6,046.70	1,03,58,360	

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	5945.80	6,341.50	3,77,05,291	
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)	Rmt	523.69	115.00	60,224	
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)	Rmt	26.18	364.10	9,534	
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)	Cum	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	366.75	17,029.77	62,45,685	
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)	Cum	142.83	17,029.77	24,32,404	
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	1,198.00	58.23	69,760	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
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	1,497.97	88.00	1,31,821	
32.00	P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting. (Rate analysis attached)	Nos.	594.00	7,911.54	46,99,455	
33.00	P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached)	Nos.	1,007.00	5,276.57	53,13,501	
34.00	P/F FRP Water gully cover with frame (25T) 600mmx500 mm at level footpath. (Rate analysis attached)	Nos.	195.00	7,912.28	15,42,895	
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	15.00	7,905.70	1,18,586	
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)	Nos.	10.00	9,125.60	91,256	
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	817.50	301.70	2,46,640	
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)	Nos.	545.00	913.00	4,97,585	
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)	Nos./M	10,068.00	161.70	16,27,996	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
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	1,554.85	5,524.20	85,89,302	
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	27,350.00	1,556.88	4,25,80,668	
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	7,420.00	1,068.90	79,31,238	
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)	Nos.	5,209.00	1,003.00	52,24,627	
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)	Nos.	5,312.00	1,947.00	1,03,42,464	
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	7,806.60	601.30	46,94,109	
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.	Sqm	17,130.40	624.00	1,06,89,370	
47.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles.	Rmt	4,901.40	59.00	2,89,183	
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	3,808.38	1,225.40	46,66,789	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
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	150.98	8,622.90	13,01,842	
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	40.26	9,637.10	3,87,990	
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 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 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.	49.00	3,862.10	1,89,243	
	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)					
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.	8.00	5,453.80	43,630	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
	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 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 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.	81.00	3,429.80	2,77,814	
	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)					
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 exposure report from an independent test lab for the product offered	Sqm	7.20	7619.70	54,862	
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	16.00	7926.60	1,26,826	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
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.	20.00	4453.90	89,078	
	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.	550.00	317.90	1,74,845	
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	3054.70	471.90	14,41,514	
59.00	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	4.00	5,75,000	23,00,000	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
	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)					
60.00	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	55.97	8576.70	4,80,062	
61.00	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	168.48	288.20	48,556	
62.00	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	93.60	3527.00	3,30,127	
63.00	Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	95.00	4,500	4,27,500	
64.00	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	4.16	100,000	4,16,000	
65.00	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.	92.00	7,500	6,90,000	
66.00	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	Nos.	10.00	2,466	24,662	
67.00	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	21,133.53	90.86	19,20,193	
68.00	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	16,975.31	91.30	15,49,845	
			Total		39,63,36,592	

SOR+ RA Items Cost GST @12% Market Rate GST @12% 30,08,58,591 36103031 9,33,07,510 11196901

Name of the Work :- Mangalore Smart City

1.1 Measurement Sheet of Road and Other Work for DPR 6

Sr. No.			k for DPR 6	1			
01.110.	Description	Unit	No's	L	В	н	Qty.
	Description	Oiiii	1103	_		••	Gty.
	Road and Junction Payment an	d Other W	orks		•		
	Taking out existing CC interlocking paver blocks from footpath/ central verge,						
l	including removal of rubbish etc., disposal of unserviceable material to the						
1	dumping ground, for which payment shall be made separately and stacking of						
	serviceable material within 50 metre lead as per direction of Engineer-in-						
I	Charge.(RA attached)						
	OMO OLA Kant Band						
	2/19 Old Kent Road						
	LHS	C	4	60.0	4.75		405.00
	Ch.0.00 to Ch.60.0 Ch.210.0 to Ch.260.0	Sqm	1		1.75		105.00
		Sqm	1		2.48		124.00
	Ch.260.0 to Ch.300.0	Sqm	1	40.0	6.13		245.20
	G/24 Mangaladayi Tampla Daad						
	6/24 Mangaladevi Temple Road Ch.270.0 to Ch.628.0(LHS and RHS)	Sqm	2	358.0	1.20		859.20
	Cn.270.0 to Cn.626.0(Ln3 and Kn3)	Sqiii		336.0	1.20		659.20
	7/25 Mankey Stand New Board	Sqm	2	50.0	2.00		200.00
	7/25-Monkey Stand New Road	Sqiii		30.0	2.00		200.00
	8/26-Jeppu Market Road-Ch.50.0 to Ch.130.0	Sqm	1	80.0	2.00		160.00
	Consider 20% Extra Qtv.	Sqiii	ı	80.0	2.00		338.68
	Consider 20 % Extra Qty.	Sam		Total Oty			2032.08
	Consider 60mm Paver Block	Sqm Cum		Total Qty.	1		121.92
	OUTBILLE OUTTILL EASE DIOOK	Juill					141.94
	KSPPR M200 Dismontling of coment concrete negroups by machanical access						
l	KSRRB M200.Dismantling of cement concrete pavement by mechanical means using pueumatic tools, breaking to pieces not exceeding 0.02 cum in volume and						
l	stock pilling at designated locations and disposal of dismantled material stacking						
l	stock pilling at designated locations and disposal of dismantied material stacking serviceble and unserviceable materials separately complete as per						
2	specifications.MORTH specification No.202.(Including transporting						
_	charges, loading and unloading for lead 5km-Extra)						
I	(SI No : 18.47)						
I	(OF 110 - 10.71)						
l							
	RCC Pipe Crossing-						
	Provisional Qty.	Cum	1	10.00	5.00	0.30	15.00
		Cum		Total Qty.			15.00
	KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M200-26.						
	Dismantling Kerb stone by Manual means and disposal of dismantled materials						
3	with all lifts and complete as per specifications.MORTH Specification No.202.						
l	(S.I.No.18.49)						
	Footpath						
	2/19 - Old Kent Road	Rm	0	790			0.00
	3/20 - Pandeshwar Road	Rm	0				0.00
	4/22 - Bolar Fisheries Road	Rm	0				0.00
	5/23 - Milihithuli Road	Rm	0				0.00
	6/24 - Mangaladevi Temple Road	Rm	2				1256.00
	7/25 - Monkey Stand New Road						
			2	570			1140.00
l		Rm	2				1140.00 0.00
	8/26 - Jeppu Market Road	Rm Rm	0 0	225			0.00
		Rm Rm Rm	0	225 576			0.00
	8/26 - Jeppu Market Road	Rm Rm	0	225			0.00
	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road	Rm Rm Rm	0	225 576			0.00
	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges,	Rm Rm Rm	0	225 576			0.00
	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete,	Rm Rm Rm	0	225 576			0.00
	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges,	Rm Rm Rm Rm	0	225 576			0.00
4	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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	Rm Rm Rm Rm	0	225 576			0.00
4	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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	Rm Rm Rm Rm	0	225 576			0.00
4	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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	Rm Rm Rm Rm	0	225 576			0.00
4	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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	Rm Rm Rm Rm	0	225 576			0.00
4	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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)	Rm Rm Rm Rm	0	225 576			0.00
	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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)	Rm Rm Rm Rm	0	225 576			0.00
	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road	Rm Rm Rm Rm	0 0	225 576 Total Qty.	1.25	0.45	0.00 0.00 2396.00
	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base	Rm Rm Rm Rm	0 0	225 576 Total Qty.	1.35	0.15	0.00 0.00 2396.00 319.95
	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base SWD-Wall	Rm Rm Rm Rm	2 4	225 576 Total Qty. 790.00 790.00	0.20	1.10	0.00 0.00 2396.00 319.95 695.20
2	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 SWD SWD SWD-Slab	Rm Rm Rm Rm	0 0	225 576 Total Qty. 790.00 790.00			0.00 0.00 2396.00 319.95
	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base SWD-Wall SWD-Slab 3/20-Pandeshawar Road	Rm Rm Rm Rm	2 4 2	225 576 Total Qty. 790.00 790.00	0.20 1.15	1.10 0.15	0.00 0.00 2396.00 319.95 695.20 272.55
2	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base SWD-Wall SWD-Slab 3/20-Pandeshawar Road SWD-Base	Rm Rm Rm Rm	2 4 2	225 576 Total Qty. 790.00 790.00 790.00	0.20 1.15 0.90	1.10 0.15 0.15	0.00 0.00 2396.00 319.95 695.20 272.55
2	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base SWD-Wall SWD-Base SWD-Pandeshawar Road SWD-Base SWD-Wall	Rm Rm Rm Rm	2 4 2	225 576 Total Qty. 790.00 790.00 790.00 790.00 280.00 280.00	0.20 1.15 0.90 0.20	1.10 0.15 0.15 1.10	0.00 0.00 2396.00 319.95 695.20 272.55 37.80 123.20
3	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base SWD-Wall SWD-Base SWD-Wall SWD-Base SWD-Wall SWD-Base	Rm Rm Rm Rm	2 4 2	225 576 Total Qty. 790.00 790.00 790.00	0.20 1.15 0.90	1.10 0.15 0.15	0.00 0.00 2396.00 319.95 695.20 272.55
2	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base SWD-Wall SWD-Base SWD-Wall SWD-Slab 5/23-Milihithlu Road	Rm Rm Rm Rm	2 4 2 1 2	225 576 Total Qty. 790.00 790.00 790.00 280.00 280.00	0.20 1.15 0.90 0.20 0.70	0.15 0.15 0.15 0.15 0.15	319.95 695.20 272.55 37.80 123.20 29.40
3	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 SWD SWD SWD-Base SWD-Wall SWD-Base SWD-Wall SWD-Slab 3/20-Pandeshawar Road SWD-Base SWD-Wall SWD-Slab 5/23-Milihithlu Road SWD-Base	Rm Rm Rm Rm Cum Cum Cum Cum Cum	2 4 2 1 2	225 576 Total Qty. 790.00 790.00 790.00 280.00 280.00 280.00 760.00	0.20 1.15 0.90 0.20 0.70	1.10 0.15 0.15 1.10 0.15	0.00 0.00 2396.00 319.95 695.20 272.55 37.80 123.20 29.40
3	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 SWD 2/19-Old Kent Road SWD-Base SWD-Wall SWD-Base SWD-Wall SWD-Slab 5/23-Milihithlu Road SWD-Base SWD-Wall SWD-Base SWD-Wall	Rm Rm Rm Rm Cum Cum Cum Cum Cum Cum	2 4 2 1 2 1 2 4 4 2	225 576 Total Qty. 790.00 790.00 280.00 280.00 280.00 760.00	0.20 1.15 0.90 0.20 0.70 1.10 0.20	1.10 0.15 0.15 1.10 0.15 0.15	319.95 695.20 272.55 37.80 123.20 29.40
3	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base SWD-Wall SWD-Slab 3/20-Pandeshawar Road SWD-Base SWD-Wall SWD-Slab 5/23-Millihithlu Road SWD-Base SWD-Wall SWD-Base	Rm Rm Rm Rm Cum Cum Cum Cum Cum	2 4 2 1 2	225 576 Total Qty. 790.00 790.00 280.00 280.00 280.00 760.00	0.20 1.15 0.90 0.20 0.70	1.10 0.15 0.15 1.10 0.15	0.00 0.00 2396.00 319.95 695.20 272.55 37.80 123.20 29.40
3	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base SWD-Wall SWD-Slab 3/20-Pandeshawar Road SWD-Base SWD-Wall SWD-Slab 5/23-Millihithlu Road SWD-Base SWD-Wall SWD-Slab 6/24-Mangaladevi Temple Road	Rm Rm Rm Rm Cum Cum Cum Cum Cum Cum Cum	2 4 2 1 2 1 2 4 2	225 576 Total Qty. 790.00 790.00 280.00 280.00 280.00 760.00 760.00	0.20 1.15 0.90 0.20 0.70 1.10 0.20 0.90	1.10 0.15 0.15 1.10 0.15 0.15 1.00 0.15	0.00 0.00 2396.00 319.95 695.20 272.55 37.80 123.20 29.40 250.80 608.00 205.20
3	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base SWD-Wall SWD-Slab 3/20-Pandeshawar Road SWD-Base SWD-Wall SWD-Slab 5/23-Milihithlu Road SWD-Base SWD-Wall SWD-Base SWD-Wall SWD-Base	Rm Rm Rm Rm Cum Cum Cum Cum Cum Cum Cum	2 4 2 1 2 1 2 4 2	225 576 Total Qty. 790.00 790.00 280.00 280.00 280.00 760.00 760.00 760.00	0.20 1.15 0.90 0.20 0.70 1.10 0.20 0.90	1.10 0.15 0.15 1.10 0.15 0.15 1.00 0.15	0.00 0.00 2396.00 319.95 695.20 272.55 37.80 123.20 29.40 250.80 608.00 205.20
3	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base SWD-Wall SWD-Slab 3/20-Pandeshawar Road SWD-Base SWD-Wall SWD-Base SWD-Wall SWD-Base SWD-Wall SWD-Slab 5/23-Millihithlu Road SWD-Base SWD-Wall SWD-Slab 6/24-Mangaladevi Temple Road SWD-Base SWD-Wall	Rm Rm Rm Rm Rm Cum Cum Cum Cum Cum Cum Cum Cum Cum Cu	2 4 2 1 2 1 2 4 2	790.00 790.00 790.00 280.00 280.00 760.00 760.00 760.00 628.00 628.00	0.20 1.15 0.90 0.20 0.70 1.10 0.20 0.90 1.10 0.20	1.10 0.15 0.15 1.10 0.15 0.15 1.00 0.15	0.00 0.00 2396.00 319.95 695.20 272.55 37.80 123.20 29.40 250.80 608.00 205.20 207.24 502.40
3 4 5	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 SWD SWD-Base SWD-Wall SWD-Base SWD-Wall SWD-Slab 5/23-Milihithlu Road SWD-Base SWD-Wall SWD-Slab 6/24-Mangaladevi Temple Road SWD-Base SWD-Wall SWD-Base SWD-Wall	Rm Rm Rm Rm Cum Cum Cum Cum Cum Cum Cum	2 4 2 1 2 1 2 4 2	790.00 790.00 790.00 280.00 280.00 280.00 760.00 760.00 760.00 628.00 628.00	0.20 1.15 0.90 0.20 0.70 1.10 0.20 0.90	1.10 0.15 0.15 1.10 0.15 0.15 1.00 0.15	0.00 0.00 2396.00 319.95 695.20 272.55 37.80 123.20 29.40 250.80 608.00 205.20
3 4 5	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 SWD SWD SWD-Base SWD-Wall SWD-Slab 5/23-Millhithlu Road SWD-Base SWD-Wall SWD-Slab 6/24-Mangaladevi Temple Road SWD-Base SWD-Wall SWD-Slab 6/24-Mangaladevi Temple Road SWD-Base SWD-Wall SWD-Slab 6/25-Monkeystand New Road	Rm Rm Rm Rm Rm Cum Cum Cum Cum Cum Cum Cum Cum Cum Cu	2 4 2 1 2 4 2 4 2 2 4 2 2	225 576 Total Qty. 790.00 790.00 790.00 280.00 280.00 280.00 760.00 760.00 760.00 628.00 628.00 628.00	0.20 1.15 0.90 0.20 0.70 1.10 0.20 0.90 1.10 0.20	1.10 0.15 0.15 1.10 0.15 1.00 0.15 1.00 0.15	0.00 0.00 2396.00 319.95 695.20 272.55 37.80 123.20 29.40 250.80 608.00 205.20 207.24 502.40 169.56
3 4 5	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base SWD-Wall SWD-Slab 3/20-Pandeshawar Road SWD-Base SWD-Wall SWD-Slab 6/23-Milihithlu Road SWD-Base SWD-Wall SWD-Slab 6/24-Mangaladevi Temple Road SWD-Base SWD-Wall SWD-Slab 6/24-Monkeystand New Road SWD-Base	Rm Rm Rm Rm Rm Cum Cum Cum Cum Cum Cum Cum Cum Cum Cu	2 4 2 1 2 4 2 2 4 2 2 2 2 2	225 576 Total Qty. 790.00 790.00 280.00 280.00 280.00 760.00 760.00 760.00 628.00 628.00 628.00 570.00	0.20 1.15 0.90 0.20 0.70 1.10 0.20 0.90 1.10 0.90	0.15 0.15 1.10 0.15 1.00 0.15 1.00 0.15 1.00 0.15	0.00 0.00 2396.00 319.95 695.20 272.55 37.80 123.20 29.40 250.80 608.00 205.20 207.24 502.40 169.56
3 4 5	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base SWD-Wall SWD-Slab 3/20-Pandeshawar Road SWD-Base SWD-Wall SWD-Slab 5/23-Millihithlu Road SWD-Base SWD-Wall SWD-Slab 6/24-Mangaladevi Temple Road SWD-Base SWD-Wall SWD-Base SWD-Wall SWD-Slab 7/25-Monkeystand New Road SWD-Base SWD-Wall	Rm Rm Rm Rm Rm Cum Cum Cum Cum Cum Cum Cum Cum Cum Cu	2 4 2 1 2 4 2 2 4 2 2 4 2 2 4 2 2	790.00 790.00 790.00 280.00 280.00 280.00 628.00 628.00 628.00 570.00	0.20 1.15 0.90 0.20 0.70 1.10 0.20 0.90 1.10 0.20 0.90	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	0.00 0.00 2396.00 319.95 695.20 272.55 37.80 123.20 29.40 250.80 608.00 205.20 207.24 502.40 169.56
3 4 5 6	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base SWD-Wall SWD-Slab 3/20-Pandeshawar Road SWD-Base SWD-Wall SWD-Slab 5/23-Milihithlu Road SWD-Base SWD-Wall SWD-Slab 6/24-Mangaladevi Temple Road SWD-Base SWD-Wall SWD-Slab 6/25-Monkeystand New Road SWD-Base SWD-Wall SWD-Base	Rm Rm Rm Rm Rm Cum Cum Cum Cum Cum Cum Cum Cum Cum Cu	2 4 2 1 2 4 2 2 4 2 2 2 2 2	790.00 790.00 790.00 280.00 280.00 280.00 628.00 628.00 628.00 628.00 570.00	0.20 1.15 0.90 0.20 0.70 1.10 0.20 0.90 1.10 0.90	0.15 0.15 1.10 0.15 1.00 0.15 1.00 0.15 1.00 0.15	0.00 0.00 2396.00 319.95 695.20 272.55 37.80 123.20 29.40 250.80 608.00 205.20 207.24 502.40 169.56
3 3 4 5 5	8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 2/19-Old Kent Road SWD-Base SWD-Wall SWD-Slab 3/20-Pandeshawar Road SWD-Base SWD-Wall SWD-Slab 5/23-Millihithlu Road SWD-Base SWD-Wall SWD-Slab 6/24-Mangaladevi Temple Road SWD-Base SWD-Wall SWD-Base SWD-Wall SWD-Slab 7/25-Monkeystand New Road SWD-Base SWD-Wall	Rm Rm Rm Rm Rm Cum Cum Cum Cum Cum Cum Cum Cum Cum Cu	2 4 2 1 2 4 2 2 4 2 2 4 2 2 4 2 2	225 576 Total Qty. 790.00 790.00 790.00 280.00 280.00 628.00 628.00 628.00 628.00 570.00 570.00	0.20 1.15 0.90 0.20 0.70 1.10 0.20 0.90 1.10 0.20 0.90	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	0.00 0.00 2396.00 319.95 695.20 272.55 37.80 123.20 29.40 250.80 608.00 205.20 207.24 502.40 169.56

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
8	SWD-Slab 9/27-Gujjarkere Road	Cum	2	225.00	0.90	0.15	60.75
	SWD-Base	Cum	2	576.00	1.10	0.15	190.08
	SWD-Wall	Cum	4	576.00	0.20		460.80
	SWD-Slab	Cum	2	576.00	0.90	0.15	155.52
	Cross Drain Box Culvert						
	1/18-Old Port Road						
	Box Culvert-Slab	Cum	2	22.9	1.00	0.20	9.16
	Box Culvert-Wall	Cum	2	22.9	1.00	0.20	9.16
	2/19-Old Kent Road Box Culvert-Slab	Cum	8	20.5	1.00	0.20	32.80
	Box Culvert-Glab	Cum	8	20.5	1.00	0.20	32.80
	3/20-Pandeshawar Road						
	Box Culvert-Slab	Cum	4	8.2	1.50	0.20	9.84
	Box Culvert-Wall 4/22-Bollar Fisheries College Road	Cum	4	8.2	1.50	0.20	9.84
	Box Culvert-Slab	Cum	2	10.9	1.50	0.20	6.54
	Box Culvert-Wall	Cum	2	10.9	1.50		6.54
	5/23-Milihithlu Road	_					
	Box Culvert-Slab Box Culvert-Wall	Cum Cum	<u>8</u>	11.4 11.4	1.50 1.50	0.20 0.20	27.36 27.36
	6/24-Mangaladevi Temple Road	Cum	0	11.4	1.50	0.20	21.30
	Box Culvert-Slab	Cum	4	32.9	1.50	0.20	39.48
	Box Culvert-Wall	Cum	4	32.9	1.50	0.20	39.48
	7/25-Monkeystand New Road	0.11	-	15.5		0.00	40.70
	Box Culvert-Slab Box Culvert-Wall	Cum Cum	4	15.6 15.6	1.50 1.50	0.20 0.20	18.72 18.72
	8/26-Jeppu Market Road	Guill	4	13.6	1.50	0.20	10.12
	Box Culvert-Slab	Cum	4	20.55	1.50	0.20	24.66
	Box Culvert-Wall	Cum	4	20.55	1.50	0.20	24.66
<u> </u>	9/27-Gujjarkere Road	C::::::		10 -	, =-	0.00	40.00
	Box Culvert-Slab Box Culvert-Wall	Cum Cum	8 8	19.5 19.5	1.50 1.50		46.80 46.80
	BOX OUIVOIT VVIII	Cum		10.0	Total Qty.	0.20	5771.42
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 100	Kg/Rm 50	Kg 5000		5.00
			Nos.	Mt/Nos	3000		3.00
	Bus Shelter		2	1.1			2.20
		MT				Total	7.2
6	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)		1	700	7.1		5600 00
	2/19 - Old Kent Road 3/20 - Pandeshwar Road	Sqm Sqm	1	790	7.1		5609.00
 	IO/EO I GIIGOJIWAI INDAG			280	5 22	l l	Than all
1	4/22 - Bolar Fisheries Road	Sqm	0	280 155	5.88 7.1		1646.40 0.00
	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road	Sqm Sqm	0 1	155 760	7.1 7		0.00 5320.00
	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road	Sqm Sqm Sqm	0 1 1	155 760 628	7.1 7 19.8		0.00 5320.00 12434.40
	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road	Sqm Sqm Sqm Sqm	0 1 1 1	155 760 628 570	7.1 7 19.8 7.4		0.00 5320.00 12434.40 4218.00
	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road	Sqm Sqm Sqm	0 1 1	155 760 628	7.1 7 19.8		0.00 5320.00 12434.40
	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road	Sqm Sqm Sqm Sqm Sqm	0 1 1 1 1	155 760 628 570 225	7.1 7 19.8 7.4 12.75		0.00 5320.00 12434.40 4218.00 2868.75
7	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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 Sqm Sqm Sqm Sqm Sqm	0 1 1 1 1 1 1 1 1	155 760 628 570 225 576 Total Qty.	7.1 7 19.8 7.4 12.75 8.3		0.00 5320.00 12434.40 4218.00 2868.75 4780.80 36877.35
7	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road	Sqm Sqm Sqm Sqm Sqm Sqm Sqm	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	155 760 628 570 225 576 Total Qty.	7.1 7 19.8 7.4 12.75 8.3		0.00 5320.00 12434.40 4218.00 2868.75 4780.80 36877.35
7	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road	Sqm Sqm Sqm Sqm Sqm Sqm Sqm	0 1 1 1 1 1 1 1	155 760 628 570 225 576 Total Qty.	7.1 7 19.8 7.4 12.75 8.3 7.1 5.88		0.00 5320.00 12434.40 4218.00 2868.75 4780.80 36877.35
7	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road	Sqm Sqm Sqm Sqm Sqm Sqm Sqm	0 1 1 1 1 1 1 1	155 760 628 570 225 576 Total Qty. 790 280 155	7.1 7 19.8 7.4 12.75 8.3		0.00 5320.00 12434.40 4218.00 2868.75 4780.80 36877.35
7	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road	Sqm Sqm Sqm Sqm Sqm Sqm Sqm	0 1 1 1 1 1 1 1	155 760 628 570 225 576 Total Qty.	7.1 7 19.8 7.4 12.75 8.3 7.1 5.88 7.1		0.00 5320.00 12434.40 4218.00 2868.75 4780.80 36877.35
7	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road	Sqm	0 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2	155 760 628 570 225 576 Total Qty. 790 280 155 760 628 570	7.1 7 19.8 7.4 12.75 8.3 7.1 5.88 7.1 7 19.8 7.4		0.00 5320.00 12434.40 4218.00 2868.75 4780.80 36877.35 11218.00 3292.80 2201.00 10640.00 24868.80 8436.00
7	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road	Sqm	0 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	155 760 628 570 225 576 Total Qty. 790 280 155 760 628 570 225	7.1 7.1 19.8 7.4 12.75 8.3 7.1 5.88 7.1 7 19.8 7.4 12.75		0.00 5320.00 12434.40 4218.00 2868.75 4780.80 36877.35 11218.00 3292.80 2201.00 10640.00 24868.80 8436.00 5737.50
7	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road	Sqm	0 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2	155 760 628 570 225 576 Total Qty. 790 280 155 760 628 570	7.1 7 19.8 7.4 12.75 8.3 7.1 5.88 7.1 7 19.8 7.4		0.00 5320.00 12434.40 4218.00 2868.75 4780.80 36877.35 11218.00 3292.80 2201.00 10640.00 24868.80 8436.00
7	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road	Sqm	0 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	155 760 628 570 225 576 Total Qty. 790 280 155 760 628 570 225	7.1 7.1 19.8 7.4 12.75 8.3 7.1 5.88 7.1 7 19.8 7.4 12.75	1.182	0.00 5320.00 12434.40 4218.00 2868.75 4780.80 36877.35 11218.00 3292.80 2201.00 10640.00 24868.80 8436.00 5737.50
7	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road RCC Pipe Crossing- 2/19 - Old Kent Road 3/20 - Pandeshwar Road	Sqm	2 2 2 2 2 2 2 2 2 4 4 4 4	155 760 628 570 225 576 Total Qty. 790 280 155 760 628 570 225 576 20.50 8.20	7.1 7.1 19.8 7.4 12.75 8.3 7.1 5.88 7.1 7 19.8 7.4 12.75	1.182	0.00 5320.00 12434.40 4218.00 2868.75 4780.80 36877.35 11218.00 3292.80 2201.00 10640.00 24868.80 8436.00 5737.50 9561.60
7	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road RCC Pipe Crossing- 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road	Sqm	2 2 2 2 2 2 2 2 4 4 4 4 16	155 760 628 570 225 576 Total Qty. 790 280 155 760 628 570 225 576 20.50 8.20 10.90	7.1 7.1 19.8 7.4 12.75 8.3 7.1 5.88 7.1 7 19.8 7.4 12.75	1.182 1.182	0.00 5320.00 12434.40 4218.00 2868.75 4780.80 36877.35 11218.00 3292.80 2201.00 10640.00 24868.80 8436.00 5737.50 9561.60 1550.78 232.62 206.14
7	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road CY19 - Old Kent Road 3/20 - Pandeshwar Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 5/29 - Pandeshwar Road 8/20 - Pandeshwar Road 8/20 - Pandeshwar Road 8/27 - Gujjarkere Road 8/28 - Jeppu Market Road 9/27 - Gujjarkere Road 8/29 - Pandeshwar Road 8/20 - Pandeshwar Road	Sqm	2 2 2 2 2 2 2 2 2 4 4 4 16 64	155 760 628 570 225 576 Total Qty. 790 280 155 760 628 570 225 576 20.50 8.20 10.90	7.1 7.1 19.8 7.4 12.75 8.3 7.1 5.88 7.1 7 19.8 7.4 12.75	1.182 1.182 1.182	0.00 5320.00 12434.40 4218.00 2868.75 4780.80 36877.35 11218.00 3292.80 2201.00 10640.00 5737.50 9561.60 1550.78 232.62 206.14 862.39
7	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road RCC Pipe Crossing- 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road	Sqm	2 2 2 2 2 2 2 2 4 4 4 4 16	155 760 628 570 225 576 Total Qty. 790 280 155 760 628 570 225 576 20.50 8.20 10.90	7.1 7.1 19.8 7.4 12.75 8.3 7.1 5.88 7.1 7 19.8 7.4 12.75 8.3	1.182 1.182	0.00 5320.00 12434.40 4218.00 2868.75 4780.80 36877.35 11218.00 3292.80 2201.00 10640.00 24868.80 8436.00 5737.50 9561.60 1550.78 232.62 206.14

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	9/27 - Gujjarkere Road	Sqm Sqm	38.4	19.50	Total Qty.	1.182	885.08 82988.60
		Oqiii			Total Qty.		02900.00
8	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
9	Removing B.S slab of drain and stacking.(PWD 18-19,5.32,Page No.32)						
	2/19 - Old Kent Road	Sqm	1	790	1.2		948.00
	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road	Sqm Sqm	2		1.2 1.2		672.00 0.00
	5/23 - Milihithuli Road	Sqm	2	760	1.2		1824.00
	6/24 - Mangaladevi Temple Road	Sqm	2		1.2		1507.20
	7/25 - Monkey Stand New Road	Sqm	2	570	1.2		1368.00
	8/26 - Jeppu Market Road	Sqm	2		1.2		540.00
	9/27 - Gujjarkere Road	Sqm	2		1.2		1382.40
		Sqm		Total Qty.			8241.60
10	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						
	Considered 250m length at 3 locations work will be in progress	Rm	3	250.00			750.00
						Total Length	750.00
	No. of Barricade = Length of Road / Length of one barricade (4.0m)				-	Longin	
		Nos.			Total Qty.		187.50
11	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						
	2/19-Old Kent Road	0	4	00	0.50	4.00	004.00
	Ch.200.0 to Ch.260.0 Ch.260.0 to Ch.310.0	Cum Cum	1		6.53 4.47	1.00 1.00	391.80 223.50
	Ch.310.0 to Ch.360.0	Cum	1		4.89	1.00	244.50
	Ch.360.0 to Ch.410.0	Cum	1		6.53	1.00	326.50
	Ch.410.0 to Ch.470.0	Cum	1	60	3.69	1.00	221.40
	Ch.470.0 to Ch.530.0 Ch.530.0 to Ch.580.0	Cum Cum	1	60 50	4.09 4.4	1.00 1.00	245.40 220.00
	Ch.580.0 to ch.630.0	Cum	1	50	6.23	1.00	311.50
	Ch.630.0 to Ch.680.0	Cum	1		4.23	1.00	211.50
	Ch.680.0 to Ch.720.0	Cum	1	40	5.27	1.00	210.72
	Ch.720.0 to Ch.790.0	Cum	1	70	2.40	1.00	168.00
	3/20-Pandeshwar New Road Ch.0.0 to Ch.20.0	Cum	1	20	2.81	0.65	36.53
	Ch.20.0 to Ch.70.0	Cum	1		4.19	0.65	136.24
	Ch.70.0 to Ch.120.0	Cum	1	50	3.70	0.65	120.12
	Ch.120.0 to ch.180.0	Cum	1		4.37	0.65	170.31
	Ch.180.0 to Ch.220.0 Ch.220.0 to Ch.280.0	Cum Cum	1		2.77 2.19	0.65 0.65	71.99 85.41
	Road No.4/22-Bolar Fisheries College Road	Juili	<u>'</u>	00	2.13	0.00	JJ.+1
	Ch.0 to Ch.10.0	Cum	1	10	4.90	1.00	49.00
	Ch.10.0 to Ch.60.0	Cum	1			1.00	210.00
	Ch.60.0 to Ch.110.0 Ch.110.0 to Ch.155.0	Cum Cum	1	50 45		1.00 1.00	275.00 242.10
	Road No.5/23-Milihithuli Road	Culli		40	5.36	1.00	242.10
	Ch.0.0 to Ch.20.0	Cum	1		2.54	0.65	33.02
·	Ch.20.0 to Ch.70.0	Cum	1			0.65	127.40
	Ch.70.0 to Ch.120.0	Cum	1		4.80	0.65	156.00
	Ch.120.0 to ch.160.0 Ch.160.0 to Ch.210.0	Cum Cum	1	40 50	3.88 4.40	0.65 0.65	100.88 143.00
	Ch.210.0 to Ch.260.0	Cum	1		2.36	0.65	76.70
	Ch.260.0 to Ch.310.0	Cum	1	50	2.03	0.65	65.98
	Ch.310.0 to Ch.360.0	Cum	1			0.65	114.40
	Ch.360.0 to Ch.420.0 Ch.420.0 to Ch.470.0	Cum Cum	1	60 50	3.07 2.25	0.65 0.65	119.73 73.13
	Ch.470.0 to Ch.470.0 Ch.470.0 to Ch.520.0	Cum	1		2.25	0.65	73.13 86.45
	Ch.520.0 to Ch.560.0	Cum	1		3.22	0.65	83.72
	Ch.560.0 to Ch.610.0	Cum	1		2.96	0.65	96.20
	Ch.610.0 to Ch.670.0	Cum	1	60	6.20	0.65	241.80

Sr. No.	Description Description	Unit	No's	L	B	Н	Qty.
	Ch.670.0 to Ch.710.0 Ch.710.0 to Ch.760.0	Cum Cum	1	40 50	4.72 2.69	0.65 0.65	122.72 87.43
	Road No.6/24-Mangaladevi Temple Road	Cuin	'	30	2.03	0.00	07.40
	Ch.0.0 to Ch.30.0	Cum	1	30	12.10	0.65	235.95
	Ch.30.0 to Ch.80.0	Cum	1	50	12.10	0.65	393.25
	Ch.80.0 to Ch.130.0	Cum	1			0.65	393.25
	Ch.130.0 to Ch.180.0 Ch.180.0 to Ch.270.0	Cum Cum	1		12.10 12.10	0.65	393.25
	Ch.270.0 to Ch.310.0	Cum	1		12.10	0.65 0.65	707.85 314.60
	Ch.310.0 to Ch.360.0	Cum	1		14.60	0.65	474.50
	Ch.360.0 to Ch.410.0	Cum	1			0.65	474.50
	Ch.410.0 to Ch.460.0	Cum	1		12.10	0.65	393.25
	Ch.460.0 to Ch.510.0	Cum	1				393.25
	Ch.510.0 to Ch.560.0	Cum	1			0.65	393.25
	Ch.560.0 to Ch.628.0 Road No.7/25-Monkeystand New Road	Cum	1	68	12.10	0.65	534.82
	Ch.0.0 to Ch.20.0	Cum	1	20	6.36	0.65	82.68
	Ch.20.0 to Ch.70.0	Cum	1		6.36	0.65	206.70
	Ch.70.0 to Ch.120.0	Cum	1			0.65	143.00
	Ch.120.0 to Ch.170	Cum	1			0.65	162.50
	Ch.170.0 to Ch.220.0	Cum	1		5.30	0.65	172.25
	Ch.220.0 to Ch.270.0	Cum	1		6.36	0.65	206.70
	Ch.270.0 to Ch.310.0	Cum	1		5.30	0.65	137.80
	Ch.310.0 to Ch.370.0	Cum	1			0.65	186.42
<u> </u>	Ch.370.0 to Ch.420.0 Ch.420.0 to Ch.470.0	Cum Cum	1		5.30 3.63	0.65 0.65	172.25 117.98
<u> </u>	Ch.470.0 to Ch.570.0	Cum	1	100	6.37	0.65	414.05
	Road No.8/26-Jeppu Market Road	Juill	<u>'</u>	100	0.37	0.00	- 1 - 1.00
	Ch.0.0 to Ch.50.0	Cum	1	50	9.87	0.65	320.78
	Ch.50.0 to Ch.90.0	Cum	1		9.30	0.65	241.80
	Ch.90.0 to Ch.130.0	Cum	1		10.22	0.65	265.72
	Ch.130.0 to Ch.225.0	Cum	1	95	8.22	0.65	507.59
	Road No.9/27-Gujjarkere Road						
	Ch.0.0 to Ch.20.0 Ch.20.0 to Ch.70.0	Cum Cum	1		4.40 4.40	0.65	57.20 143.00
-	Ch.70.0 to Ch.110.0	Cum	1		4.40	0.65 0.65	171.60
	Ch.110.0 to Ch.170.0	Cum	1		5.30	0.65	206.70
	Ch.170.0 to Ch.220.0	Cum	1		8.32	0.65	270.40
	Ch.220.0 to Ch.270.0	Cum	1		5.30	0.65	172.25
	Ch.270.0 to Ch.320.0	Cum	1	50	4.40	0.65	143.00
	Ch.320.0 to Ch.370.0	Cum	1	50	4.40	0.65	143.00
	Ch.370.0 to Ch.420.0	Cum	1	50	4.40	0.65	143.00
	Ch.420.0 to Ch.470.0	Cum	1	50		0.65	114.73
-	Ch.470.0 to Ch.520.0 Ch.520.0 to Ch.570.0	Cum Cum	1			0.65 0.65	126.10 126.10
		Cum	ı	30	3.00	0.03	120.10
-	Footpath Road No.2/19-Old Kent Road						
	LHS						
	Ch.0.0 to Ch.150.0	Cum	1	150	3.76	0.2	112.8
	Ch.165.0 to Ch.180.0	Cum	1	15	4.6	0.2	13.8
	Ch.230.0 to Ch.440.0	Cum	1			0.2	142.8
	Ch.450.0 to Ch.530.0	Cum	1	80	1.98	0.2	31.68
	Ch.540.0 to Ch.570.0	Cum	1	30		0.2	10.38
	Ch.580.0 to Ch.730.0	Cum	1	150	2.07	0.2	62.1
	RHS Ch.0.0 to Ch.130.0	Cum	1	130	2.78	0.2	72.28
	Ch.130.0 to Ch.740.0	Cum	1			0.2	287.92
	Road No.3/20-Pandeshwar New Road			0.0	2.00	0.2	201102
	RHS						
	Ch.0.0 to Ch.170.0	Cum	1		1.85	0.2	62.9
	Ch.175.0 to Ch.205.0	Cum	1	30	2.2	0.2	13.2
	Road No.4/22-Bolar Fisheries College Road	1					
	LHS Ch.0.0 to Ch.150.0	Cum	1	150	2.83	0.2	84.9
	RHS	Cuill	1	150	2.03	0.2	04.8
—		Cum	1	20	1.65	0.2	6.6
1	ICN 105 0 to CN 125 0					0.2	0.0
	Ch.105.0 to Ch.125.0 Road No.5/23-Milihithuli Road						
	Road No.5/23-Milihithuli Road LHS						04.70
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0	Cum	1	45	2.42	0.2	21.78
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0	Cum	1	40	5.85	0.2	46.8
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0	Cum Cum	1	40 20	5.85 3.12	0.2 0.2	46.8 12.48
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0 Ch.355.0 to Ch.370.0	Cum Cum Cum	1 1 1	40 20 15	5.85 3.12 2.53	0.2 0.2 0.2	46.8 12.48 7.59
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0 Ch.355.0 to Ch.370.0 Ch.380.0 to Ch.390.0	Cum Cum Cum	1 1 1	40 20 15 10	5.85 3.12 2.53 3.4	0.2 0.2 0.2 0.2	46.8 12.48 7.59 6.8
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0 Ch.355.0 to Ch.370.0 Ch.380.0 to Ch.390.0 Ch.390.0 to Ch.420.0	Cum Cum Cum Cum	1 1 1 1 1	40 20 15 10 30	5.85 3.12 2.53 3.4 3.13	0.2 0.2 0.2 0.2 0.2	46.8 12.48 7.59 6.8 18.78
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0 Ch.355.0 to Ch.370.0 Ch.380.0 to Ch.390.0 Ch.390.0 to Ch.420.0 Ch.560.0 to Ch.570.0	Cum Cum Cum Cum Cum Cum Cum	1 1 1	40 20 15 10 30	5.85 3.12 2.53 3.4 3.13 2.64	0.2 0.2 0.2 0.2 0.2 0.2	46.8 12.48 7.59 6.8
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0 Ch.355.0 to Ch.370.0 Ch.380.0 to Ch.390.0 Ch.390.0 to Ch.420.0	Cum Cum Cum Cum	1 1 1 1 1 1	40 20 15 10 30	5.85 3.12 2.53 3.4 3.13	0.2 0.2 0.2 0.2 0.2	46.8 12.48 7.59 6.8 18.78
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0 Ch.355.0 to Ch.370.0 Ch.380.0 to Ch.390.0 Ch.390.0 to Ch.420.0 Ch.560.0 to Ch.570.0 Ch.580.0 to Ch.570.0	Cum Cum Cum Cum Cum Cum Cum Cum Cum	1 1 1 1 1 1 1	40 20 15 10 30 10 20	5.85 3.12 2.53 3.4 3.13 2.64 1.75	0.2 0.2 0.2 0.2 0.2 0.2 0.2	46.8 12.48 7.59 6.8 18.78 5.28
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0 Ch.355.0 to Ch.370.0 Ch.380.0 to Ch.390.0 Ch.380.0 to Ch.390.0 Ch.390.0 to Ch.420.0 Ch.560.0 to Ch.570.0 Ch.580.0 to Ch.640.0 Ch.630.0 to Ch.640.0 RHS Ch.190.0 to Ch.210.0	Cum	1 1 1 1 1 1 1 1	40 20 15 10 30 10 20 20	5.85 3.12 2.53 3.4 3.13 2.64 1.75 0.81	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	46.8 12.48 7.59 6.8 18.78 5.28 7 3.24
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0 Ch.355.0 to Ch.370.0 Ch.380.0 to Ch.390.0 Ch.380.0 to Ch.390.0 Ch.380.0 to Ch.420.0 Ch.560.0 to Ch.570.0 Ch.580.0 to Ch.640.0 RHS Ch.190.0 to Ch.210.0 Ch.570.0 to Ch.210.0 Ch.570.0 to Ch.590.0	Cum	1 1 1 1 1 1 1 1 1	40 20 15 10 30 10 20 20 20	5.85 3.12 2.53 3.4 3.13 2.64 1.75 0.81 4.25 1.88	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	46.8 12.48 7.59 6.8 18.78 5.28 7 3.24
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0 Ch.355.0 to Ch.370.0 Ch.380.0 to Ch.390.0 Ch.390.0 to Ch.420.0 Ch.580.0 to Ch.570.0 Ch.580.0 to Ch.600.0 Ch.600.0 to Ch.600.0	Cum	1 1 1 1 1 1 1 1	40 20 15 10 30 10 20 20 20	5.85 3.12 2.53 3.4 3.13 2.64 1.75 0.81 4.25 1.88	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	46.8 12.48 7.59 6.8 18.78 5.28 7 3.24
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0 Ch.355.0 to Ch.370.0 Ch.380.0 to Ch.390.0 Ch.390.0 to Ch.420.0 Ch.560.0 to Ch.570.0 Ch.580.0 to Ch.600.0 Ch.630.0 to Ch.640.0 RHS Ch.190.0 to Ch.210.0 Ch.570.0 to Ch.210.0 Ch.590.0 to Ch.590.0 Ch.590.0 to Ch.590.0 Ch.590.0 to Ch.590.0 Ch.590.0 to Ch.600.0	Cum	1 1 1 1 1 1 1 1 1	40 20 15 10 30 10 20 20 20	5.85 3.12 2.53 3.4 3.13 2.64 1.75 0.81 4.25 1.88	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	46.8 12.48 7.55 6.8 18.78 5.28 7 3.24
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0 Ch.355.0 to Ch.370.0 Ch.380.0 to Ch.390.0 Ch.390.0 to Ch.420.0 Ch.560.0 to Ch.570.0 Ch.580.0 to Ch.640.0 RHS Ch.190.0 to Ch.210.0 Ch.570.0 to Ch.210.0 Ch.570.0 to Ch.590.0 Road No.6/24-Mangaladevi Temple Road LHS	Cum	1 1 1 1 1 1 1 1 1 1 1	40 20 15 10 30 10 20 20 20 10	5.85 3.12 2.53 3.44 3.13 2.64 1.75 0.81 4.25 1.88	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	46.8 12.48 7.59 6.8 18.78 5.28 7 3.2 ² 17 7.52 2.68
	Road No.5/23-Milihithuli Road LHS Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0 Ch.355.0 to Ch.370.0 Ch.380.0 to Ch.390.0 Ch.390.0 to Ch.420.0 Ch.560.0 to Ch.570.0 Ch.580.0 to Ch.600.0 Ch.630.0 to Ch.640.0 RHS Ch.190.0 to Ch.210.0 Ch.570.0 to Ch.210.0 Ch.590.0 to Ch.590.0 Ch.590.0 to Ch.590.0 Ch.590.0 to Ch.590.0 Ch.590.0 to Ch.600.0	Cum	1 1 1 1 1 1 1 1 1	40 20 15 10 30 20 20 20 20 10	5.85 3.12 2.53 3.4 3.13 2.64 1.75 0.81 4.25 1.88	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	46.8 12.48 7.55 6.8 18.78 5.28 7 3.24

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.0.0 to Ch.620.0	Cum	1	620	4.57	0.2	566.68
	Road No.7/25-Monkeystand New Road						
	LHS Ch.0.0 to Ch.25.0	Cum	1	25	2.68	0.2	13.4
	Ch.30.0 to Ch.100.0	Cum	1	70	1.85	0.2	25.9
	Ch.160.0 to Ch.180.0	Cum	1	20	3.03	0.2	12.12
	Ch.270.0 to Ch.290.0 Ch.515.0 to Ch.550.0	Cum	1	20 35	2.88 2.28	0.2	11.52 15.96
	Cn.515.0 to Cn.550.0 RHS	Cum	I	33	2.20	0.2	15.96
	Ch.0.0 to Ch.570.0	Cum	1	570	2.38	0.2	271.32
	Road No.8/26-Jeppu Market Road						<u> </u>
	LHS Ch.0.0 to Ch.195.0	Cum	1	195	2.47	0.2	96.33
	Ch.210.0 to Ch.220.0	Cum	1	10	2.9	0.2	5.8
	RHS						
	Ch.0.0 to Ch.200 Ch.210.0 to Ch.220.0	Cum Cum	1	200 10	4.05 2.2	0.2 0.2	162 4.4
	Road No.9/27-Gujjarkere Road	Cum	ı	10	2.2	0.2	4.4
	LHS						
	Ch.0.00 to Ch.85.00	Cum	1	85	1.36	0.2	23.12
-	Ch.95.0 to ch.115.0 Ch.125.0 to Ch.560.0	Cum Cum	1	20 435	4.11	0.2	357.57
	Ch.570.0 to Ch.576.0	Cum	1	6	3	0.2	3.6
	RHS					-	
	Ch.35.0 to Ch.330.0	Cum	1	295	2.33	0.2	137.47
	Ch.330.0 to Ch.576.0 Flush Footpath with Carriageway	Cum	1	246	1.85	0.2	91.02
	Road No.2/19-Old Kent Road						
	LHS						
<u> </u>	Ch.180.0 to Ch.230.0	Cum Cum	1	50 20	1.38 1.31	0.27 0.27	18.63
	Ch.460.0 to Ch.480.0 Ch.690.0 to Ch.710.0	Cum	1	20	2.2	0.27	7.07 11.88
	Ch.730.0 to Ch.770.0	Cum	1	40	1.2	0.27	12.96
	Ch.770.0 to Ch.790.0	Cum	1	20	2.58	0.27	13.93
	RHS Ch.60.0 to Ch.70.0	Cum	1	10	2.72	0.27	7.2/
	Ch.75.0 to Ch.80.0	Cum	1	10 5	4.5	0.27	7.34 6.08
	Ch.195.0 to Ch.213.0	Cum	1	18	0.91	0.27	4.42
	Ch.740.0 to Ch.780.0	Cum	1	40	0.78	0.27	8.42
	Road No.3/20-Pandeshwar New Road RHS						
	Ch.10.0 to Ch.55.0	Cum	1	45	1.1	0.27	13.37
	Ch.100.0 to Ch.170.0	Cum	1	70	1.31	0.27	24.76
	Ch.170.0 to Ch.225.0	Cum	1	55	0.83	0.27	12.33
	Ch.225.0 to Ch.290.0	Cum	1	65	0.3	0.27	5.27
	Ch.150.0 to Ch.220.0	Cum	1	70	0.52	0.27	9.83
	Road No.4/22-Bolar Fisheries College Road						
	RHS Ch.0.0 to ch.30.0	Cum	1	30	0.49	0.27	3.97
	Ch.50.0 to Ch.105.0	Cum	1	55	0.49	0.27	9.80
	Ch.128.0 to Ch.150.0	Cum	1	22	0.73	0.27	4.34
	Road No.5/23-Milihithuli Road						ļ
	LHS Ch.0.0 to Ch.20.0	Cum	1	20	2.25	0.27	12.15
	Ch.48.0 to Ch.52	Cum	1	4	3.5	0.27	3.78
	Ch.118.0 to Ch.124.0	Cum	1	6	8.5	0.27	13.77
	Ch.134.0 to Ch.180.0	Cum	1	46	1.28	0.27	15.90
	Ch.212.0 to Ch.250.0 Ch.318.0 to Ch.345.0	Cum Cum	1	38 27	1.55 1.44	0.27 0.27	15.90 10.50
	Ch.355.0 to Ch.368.0	Cum	1	13	3.4	0.27	11.93
	Ch.375.0 to Ch.400.0	Cum	1	25	1.84	0.27	12.42
	Ch.400.0 t0 Ch.420.0	Cum	1	20	2.85 1.38	0.27	15.39
	Ch.472.0 to Ch.480.0 Ch.485.0 to Ch.495.0	Cum Cum	1	8 10	1.30	0.27 0.27	2.98 5.13
	Ch.535.0 to Ch.570.0	Cum	1	35	0.63	0.27	5.95
	Ch.580.0 to Ch.590.0	Cum	1	10	3.3	0.27	8.91
	Ch.590.0 to Ch.595.0 Ch.595.0 to Ch.605.0	Cum Cum	1	5 10	1.33 0.72	0.27 0.27	1.80 1.94
	Ch.610.0 to Ch.645.0	Cum	1	35	1.02	0.27	9.64
	Ch.645.0 to Ch.670.0	Cum	1	25	2.38	0.27	16.07
	Ch.675.0 to Ch.740.0	Cum	1	65	0.83	0.27	14.57
-	RHS Ch.0.0 to Ch.70.00	Cum	1	70	2.02	0.27	38.18
	Ch.70.0 to Ch.115.0	Cum	1	45	2.02	0.27	32.08
	Ch.115.0 to ch.135.0	Cum	1	20	4.63	0.27	25.00
<u> </u>	Ch.180.0 to Ch.190.0	Cum	1	10	1.5	0.27	4.05
-	Ch.235.0 to Ch.240.0 Ch.245.0 to ch.300.0	Cum Cum	1	5 55	3.5 1.85	0.27 0.27	4.73 27.47
	Ch.300.00 to Ch.320.0	Cum	1	20	3.3	0.27	17.82
	Ch.340.0 to Ch.358.0	Cum	1	18	3.56	0.27	17.30
	Ch.378.0 to ch.380.0	Cum	1	2	1.5	0.27	0.81
	Ch.420.0 to ch. 440.0 Ch.460.0 to Ch.474.0	Cum Cum	1	20 14	3.1 0.64	0.27 0.27	16.74 2.42
	Ch.474.0 to Ch.528.0	Cum	1	54	1.87	0.27	27.26
	Ch.528.0 to Ch.550.0	Cum	1	22	0.52	0.27	3.09

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.605.0 to Ch.630.0	Cum	1		0.77	0.27	5.20
	Ch.640.0 to Ch.660.0 Ch.670.0 to ch.740.0	Cum Cum	1 1			0.27 0.27	3.24 31.56
	Ch.758.0 to Ch.762.0	Cum	1			0.27	1.17
	Road No.7/25-Monkeystand New Road					0.2.	
	LHS						
	Ch.28.0 to Ch.30.0 Ch.100.0 to Ch.160.0	Cum Cum	1	60		0.27 0.27	1.62 11.83
	Ch. 100.0 to Ch. 160.0 Ch.195.0 to Ch.230.0	Cum	1			0.27	4.35
	Ch.250.0 to Ch.270.0	Cum	1	20		0.27	9.72
	Ch.290.0 to Ch.295.0	Cum	1	5	1.4	0.27	1.89
	Ch.295.0 to Ch.318.0	Cum	1			0.27	6.46
	Ch.325.0 to Ch.355.0	Cum Cum	1	30 45		0.27	6.72
	Ch.395.0 to Ch.440.0 Ch.458.0 to Ch.470.0	Cum	1		0.5	0.27 0.27	12.15 1.62
	Ch.470.0 to Ch.508.0	Cum	1			0.27	7.59
	Ch.530.0 to Ch.550.0	Cum	1	20	2.05	0.27	11.07
	RHS						
	Ch.358.0 to Ch.410.0	Cum	1	52	1.24	0.27	17.41
	Ch.445.0 to Ch.475.0 Road No.8/26-Jeppu Market Road	Cum	1	30	1.07	0.27	8.67
	LHS						
	Ch.198.0 to Ch.212.0	Cum	1	14	1.43	0.27	5.41
	RHS						
	Ch.190.0 to Ch.212.0	Cum	1	22	0.73	0.27	4.34
	Road No.9/27-Gujjarkere Road LHS	+					
	Ch.88.0 to Ch.98.0	Cum	1	10	0.9	0.27	2.43
	Ch.565.0 to Ch.576.0	Cum	1		0.91	0.27	2.43
	RHS						
	Ch.25.0 to Ch.35.0	Cum	1	10	1	0.27	2.70
	Parking Area						
	2/19 - Old Kent Road Ch.30.0 to Ch.90.00	Sgm	1	60	2.40	0.51	73.44
	6/24 - Mangaladevi Temple Road	Oqiii	'	00	2.40	0.51	73.44
	Ch.320.0 to CH.440.0	Sqm	1	120	2.47	0.51	151.16
	9/27 - Gujjarkere Road						
	Ch.140.0 to Ch.200.0	Sqm	1			0.51	85.99
	Ch.240.0 to Ch.275.0	Sqm	1	35	2.67	0.51	47.66
	Electrical Trench						
2	2/19-Old Kent Road RHS	Cum	1	790	1.2	1.50	1422.00
	LHS	Cum	1	790		1.50	
3	3/20-Pandeshwar New Road	Oum	'	730	1.2	1.50	1422.00
	RHS	Cum	1	280	1.2	1.50	504.00
	LHS	Cum	1	280	1.2	1.50	504.00
4	4/22-Bolar Fisheries Road	Cum	1	155	1.0	1.50	070.00
	RHS LHS	Cum Cum	1			1.50 1.50	
5	5/23-Mulihithuli Roda	Cuiii	'	133	1.2	1.50	219.00
	RHS	Cum	1	760	1.2	1.50	1368.00
	LHS	Cum	1	760	1.2	1.50	1368.00
6	6/24-Mangaladevi New Road	 _ _ _					4400 ::
<u> </u>	RHS LHS	Cum Cum	1	628 628		1.50 1.50	
7	7/25-Monkeystand New Road	Cum	1	5∠8	1.2	1.50	1130.40
	RHS	Cum	1	570	1.2	1.50	1026.00
	LHS	Cum	1	570		1.50	
8	8/26-Jeppu Market Road	<u> </u>					
<u> </u>	RHS	Cum	1	225	1.2	1.50	
8	LHS 9/27-Gujjarkere Road	Cum	1	225	1.2	1.50	405.00
U	RHS	Cum	1	576	1.2	1.50	1036.80
	LHS	Cum	1			1.50	
	OWB	1					<u> </u>
	SWD SWD	+					
<u> </u>	Road 19/1 Old Kent Road	+		Sides	2		
	MH-542 to MH 543						
	Base	Cum	2	50.4	1.7	1.46	250.19
2	MH-543 to MH 544	<u> </u>					
2	Base	Cum	2	13.1	1.7	1.46	65.03
3	MH-544 to MH 545	Cum	2	49.4	1.7	1.635	274.61
	Rase	Oulli		43.4	1.7	1.000	214.01
	Base MH-545 to MH 296						
	Base MH-545 to MH 296 Base	Cum	2	118.7	1.7	1.665	671.96
4	MH-545 to MH 296 Base MH-296 to MH 297			_			
4 5	MH-545 to MH 296 Base MH-296 to MH 297 Base	Cum	2	_	1.7	1.665 1.535	671.96 110.12
4 5	MH-545 to MH 296 Base MH-296 to MH 297 Base MH-297 to MH 298	Cum	2	21.1	1.7	1.535	110.12
5 6	MH-545 to MH 296 Base MH-296 to MH 297 Base			_			

Sr. No.	Description	Unit	No's	L	В	н	Qty.
8	MH-299 to MH 300 Base	Cum	2	12.9	1.7	1.525	66.89
9	MH-300 to MH 301 Base	Cum	2	43.7	1.7	1.555	231.04
10	MH-301 to MH 302	Cum	2	27.9	1.7	1.55	147.03
11	Base MH-302 to MH 303						
12	Base MH-303 to MH 304	Cum	2	18.8	1.7	1.485	94.92
13	Base MH-304 to MH305	Cum	2	35.3	1.7	1.51	181.23
14	Base MH-305 to MH306	Cum	2	32	1.7	1.56	169.73
	Base	Cum	2	59.9	1.7	1.55	315.67
15	MH-306 to O-33 Base	Cum	2	48	1.7	1.54	251.33
16	MH-546 to MH-547 Base	Cum	2	21.5	2	1.465	125.99
17	MH-547 to MH-549 Base	Cum	2	55.8	2	1.57	350.42
18	MH-549 to MH-548 Base	Cum	2	42.7	2	1.67	285.24
19	MH-548 to MH-531						
20	Base MH-531 to MH-532	Cum	2	66.9	2	1.68	449.57
21	Base MH-532 to MH-533	Cum	2	41.6	2.05	1.985	338.56
22	Base MH-533 to MH-534	Cum	2	25.7	2.05	1.955	206.00
23	Base MH-534 to MH-535	Cum	2	36.6	2.05	1.835	275.36
24	MR-535 to MH-536 MH-535 to MH-536	Cum	2	50	2.05	1.82	373.10
	Base	Cum	2	22.2	2.05	1.775	161.56
25	MH-536 to MH-537 Base	Cum	2	29.7	2.05	1.9	231.36
26	MH-537 to MH-538 Base	Cum	2	36.2	2	1.78	257.74
27	MH-538 to MH-539 Base	Cum	2	51.6	2	1.785	368.42
28	MH-539 to MH-540 Base		2	9.5	2	1.76	66.88
29	MH-540 to O-59	Cum					
	Base	Cum	2		2	1.76	318.91
1	Road 20/3 Pandeshwar New Road Node-O-61			Sides	1		
2	Slab MH-528	Cum	1	112.8	1.05	1.61	190.10
3	Base Node-0-58	Cum	1	17.3	1.7	1.505	44.26
	Base	Cum	1	88.8	1.7	1.475	222.67
4	MH-527 Base	Cum	1	44.9	1.7	1.525	116.40
	Road 22/4 Bolar Fisheries College Road			Sides	1		
1	MH-377 to O-39 Base	Cum	1	114.8	1.7	1.575	307.38
	Road-23/5 Milihithulu Road			Sides	1		· • • • • • • • • • • • • • • • • • • •
1	MH-261	C				4 = 7	100 74
2	Base MH-262	Cum	1	41	2	1.57	128.74
3	Base MH-263	Cum	1		2	1.525	152.20
4	Base MH-615	Cum	1	55.3	2	1.475	163.14
5	Base 0-29	Cum	1	31.4	2	1.465	92.00
6	MH-578	Cum	1	27.2	2	1.46	79.42
	Base	Cum	1	16.4	2	1.495	49.04
7	MH-577 Base	Cum	1	19.7	1.4	1.495	41.23
8	MH-576 Base	Cum	1	31.8	1.4	1.48	65.89
9	MH-575 Base	Cum	1	33.2	1.4	1.465	68.09
10	O-68 Base	Cum	1	31.3	1.4	1.68	73.62
11	MH-582	Cum	2	Sides 36.3	1.3	2.57	
12	Base MH-583						242.56
13	Base MH-584	Cum	2		1.2	2.33	116.87
14	Base MH-585	Cum	2	17.4	1.15	1.875	75.04
14	COC-DINI			į .			

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Base MH-586	Cum	2	13.8	1.1	1.67	50.70
	Base MH-587	Cum	2	28.4	1.1	1.595	99.66
	Base	Cum	2	9	1.1	1.51	29.90
	O-69 Base	Cum	2	21.6	1.1	1.475	70.09
	MH-618 Base	Cum	2	12.9	1.3	2.45	82.17
	MH-619						
20	Base MH-620	Cum	2	24	1.2	2.25	129.60
21	Base MH-621	Cum	2	16.9	1.2	2.01	81.53
22	Base MH-622	Cum	2	21.4	1.1	1.555	73.21
	Base	Cum	2	10.1	1.1	1.555	34.55
	MH-623 Base	Cum	2	41.4	1.2	1.845	183.32
24	0-70 Base	Cum	2	23.8	1.2	2.06	117.67
	MH-366 Base	Cum	1	24.8	1.7	2.125	89.59
26	MH-258						
	Base MH-259	Cum	1	52	1.7	1.98	175.03
28	Base MH-260	Cum	1	28.1	1.7	2.04	97.45
	Base	Cum	1	101.5	1.7	1.92	331.30
	Road-24/6 Mangaladevi Temple Road		Side	2			
	MH-223 to MH-224 Base	Cum	2	92.7	2.33	1.77	764.61
2	MH-224 to MH-225 Base	Cum	2	56	2.33	1.775	463.20
3	MH-225 to MH-226 Base	Cum	2	65.3	2.33	1.765	537.09
4	MH-226 to MH-257						
5	Base MH-207 to MH-208	Cum	2	145.2	2.33	1.83	1238.24
6	Base MH-208 to MH-209	Cum	2	48	2	1.51	289.92
	Base MH-209 to MH-210	Cum	2	37.2	2	1.51	224.69
	Base	Cum	2	22.3	2	1.52	135.58
	MH-210 to MH-211 Base	Cum	2	71.7	2	1.495	428.77
	MH-211 to MH-212 Base	Cum	2	35.3	2	1.48	208.98
10	MH-212 to MH-213 Base	Cum	2	85.6	2	1.495	511.89
	MH-213 to MH-214						
	Base MH-214 to MH-215	Cum	2	55.1	2	1.49	328.40
13	Base MH-215 to MH-216	Cum	2	64.3	2	1.5	385.80
	Base MH-216 to MH-256	Cum	2	101.3	2	1.51	611.85
	Base	Cum	2	36.8	2.1	2.085	322.26
	MH-256 to O-62 Base	Cum	2	40.5	2.03	1.9	312.42
	MH-218 to MH-219 Base	Cum	2	50.7	1.73	1.855	325.41
17	MH-219 to MH-220 Base	Cum	2	34.9	1.73	1.795	216.75
18	MH-220 to MH-221 Base	Cum	2	25.1	1.73	1.82	158.06
19	MH-221 to MH-222						
	Base	Cum	2	85.8	1.73	1.79	531.39
	Road 25/7 Monkeystand New Road MH-564			Sides	1		
	Base MH-565	Cum	1	80.8	1.72	1.845	256.41
	Base	Cum	1	17.9	1.72	1.835	56.50
	MH-566 Base	Cum	1	43.3	1.7	1.655	121.82
	MH-567 Base	Cum	1	120.8	1.7	1.48	303.93
	D-34 Base	Cum	1	9.7	1.7	1.475	24.32
	MH-613						
7	Base MH-614	Cum	1	72.9		2.09	274.25
	Base MH-568	Cum	1	40.1	1.72	1.77	122.08
	Base	Cum	1	49.2	1.72	1.765	149.36

Sr. No.	Description MH-309	Unit	No's	L	В	Н	Qty.
	Base	Cum	1	53.2	1.7	1.695	153.30
10	O-34 Base	Cum	1	54.8	1.7	1.52	141.60
11	MH-569						
12	Base MH-570	Cum	1	52.7	1.7	1.75	156.78
13	Base MH-567	Cum	1	36.1	1.7	1.56	95.74
- 10	Base	Cum	1	17.1	1.7	1.495	43.46
	Road 26/8 Jeppu Market Road			Sides	2		
1	MH-229 Base	Cum	2	121.2	1.9	2.715	1250.42
2	MJ-230		2	62.8	1.9	2.735	652.68
3	Base MH-605	Cum					
4	D-66	Cum	2	136	1.7	1.595	737.53
5	Base MH-608	Cum	2	12.8	1.7	1.465	63.76
	Base	Cum	2	21.6	1.7	1.48	108.69
6	MH-609 Base	Cum	2	38.2	1.7	1.47	190.92
	Road 27/9 Gujjarkere Road			Sides	2		
1	MH-234 to MH-235					2	
2	Base MH-235 to MH-236	Cum	2	16.9	2.32	2.02	158.40
3	Base MH-236 to MH-237	Cum	2	29.4	2.32	2.205	300.80
	Base	Cum	2	70.4	2.3	2.21	715.69
4	MH-237 to MH-238 Base	Cum	2	68.4	2.3	2.06	648.16
5	MH-238 to MH-239 Base	Cum	2	19.1	2.3	1.975	173.52
6	MH-239 to MH-240						
7	Base MH-240 to MH-241	Cum	2	37.7	2.4	1.96	354.68
8	Base MH-241 to MH-242	Cum	2	21.3	2.32	1.875	185.31
	Base	Cum	2	25.9	2.32	1.81	217.52
9	MH-242 to MH-591 Base	Cum	2	31.2	2.3	1.785	256.18
10	MH-591 to MH-246 Base	Cum	2	48.3	2.3	1.785	396.59
11	MH-246 to MH-245		2		2.3	1.805	257.39
12	Base MH-245 to O-65	Cum					
13	Base MH-592 to MH-593	Cum	2	39.4	2.3	2.125	385.14
14	Base MH-593 to MH-594	Cum	2	37.3	2	1.925	287.21
	Base	Cum	2	4.1	2	1.905	31.24
15	MH-594 to MH-595 Base	Cum	2	58.3	2	1.78	415.10
16	MH-595 to MH-596 Base	Cum	2	56.8	2	1.57	356.70
17	MH-596 to MH-597						
18	Base MH-597 to MH-598	Cum	2	3.1	2	1.5	18.60
19	Base MH-598 to MH-599	Cum	2	41.5	2	1.515	251.49
	Base	Cum	2	42.3	2	1.49	252.11
20	MH-599 to MH-600 Base	Cum	2	43.3	2	1.515	262.40
21	MH-600 to MH-601 Base	Cum	2	21.7	2	1.57	136.28
22	MH-601 to MH-602	Cum					
23	Base MH-602 to MH-603		2	62.1	2	1.565	388.75
24	Base MH-603 to O-64	Cum	2	7.4	2	1.575	46.62
25	Base MH-229 to MH-230	Cum	2	72.7	2	1.965	571.42
	Base	Cum	2	62.8	2	2.735	687.03
26	MH-230 to MH-231 Base	Cum	2	20.1	2	2.68	215.47
27	MH-231 to MH-589 Base	Cum	2	37.5	2	2.38	357.00
28	MH-589 to MH-232						
29	Base MH-232 to O-63	Cum	2	57.6	2	2.18	502.27
30	Base MH-607 to MH-608	Cum	2	29.2	2	2.16	252.29
	Base	Cum	2	21.6	2	1.48	127.87
31	MH-608 to MH-609						

Marcon to Min-101	Sr. No.	Description	Unit	No's	L	В	Н	Qty.
Success	32	Slab MH-609 to MH-610	Cum	2	38.2	1.2	0.15	13.75
Bisser		Base	Cum	2	101.6	2	1.54	625.86
Deduction of Existing SWD-Consider SPY Gry.	33		Cum	2	41.6	2	1.615	268.74
2019-OH Kent Road								
SWID-Bases								
SWD-Base			Cum	-1	790	1.15	1.1	-999.35
SYM-Blance			Cum	-0.5	280	0.7	1 1	-107.80
SYLP-Design			Cuiii	-0.5	200	0.7	1.1	-107.00
SWID-base Cum 1 SSB 0.9 1 -9565.00			Cum	-1	760	0.9	1	-684.00
Tig2+Monkeystand New Road			Cum	-1	628	0.9	1	-565.20
SYPC-Bear SYPC		7/25-Monkeystand New Road						
SVPC-Bases Cum 1 225 0.9 1 2025 202			Cum	-1	570	0.9	1	-513.00
SWD-Base Cum		SWD-Base	Cum	-1	225	0.9	1	-202.50
2719 - Old Kent Road			0		570	0.0		540.40
2719 - Old Kent Road			Cum	-1	5/6	0.9	1	-518.40
A22- Boar Fisheries Road		2/19 - Old Kent Road		16				
S23 - Milhithula Road								
624 - Manqualadevi Temple Road								
826 - Jeppu Marker Road		6/24 - Mangaladevi Temple Road	Cum	13	32.9	1.182	0.5	252.77
927 - Guijarhere Road								
KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20ms in depth, compacting each deposited layer by ramming after watering with lead up to 50m, and lift upto 1.5 m. including cost of all labour complete as per specifications. Total Excavation								
exceeding 20cns in depth, compacting each deposited layer by ramming after watering with lead upto 50m, and lift upto 1.5 m. including cost of all about complete as per specifications. Total Excavation			Cum		Total Qty.			67366.10
Pipe Volume-Dia 200mm	12	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.	Cum					67366 10
3/20 - Pandeshwar Road					Length	C/s Area		07300.10
4/22 - Bolar Fisheries Road								
5/23 - Milhithuir Road								
7/25 - Monkey Stand New Road		5/23 - Milihithuli Road	Cum	-8				
8/26 - Jeppu Market Road								
9/27 - Gujjarkere Road								
2/19 - Old Kent Road		9/27 - Gujjarkere Road		-8	576	0.031		-144.69
3/20 - Pandeshwar Road				-2	790	0.020		-31 75
S/23 - Milhithuil Road				-2				
6/24 - Mangaladevi Temple Road								
17/25 - Monkey Stand New Road								
9/27 - Gujjarkere Road		7/25 - Monkey Stand New Road	Cum	-2	570			-22.91
Elctrical Chamber Volume								
Concrete Volume of SWD		9/21 - Gujjarkere roau	Cuiii	-2	370	0.020		-23.13
Concrete Volume of SWD		Elctrical Chamber Volume		-297	2	0.9		-534.60
PCC Volume of SWD		Concrete Volume of SWD		-1	5989 98			-5989 98
Note			Cum					
Road 19/1 Old Kent Road		Vaid Avec of CIMD						
MH-542 to MH 543 Base Cum -2 50.4 0.6 1.21 -73.18			Cuili		Sides	2		
2 MH-543 to MH 544 Base Cum -2 13.1 0.6 1.21 -19.02 3 MH-544 to MH 545 Cum -2 49.4 0.6 1.385 -82.10 4 MH-545 to MH 296 Cum -2 118.7 0.6 1.415 -201.55 5 MH-296 to MH 297 Cum -2 21.1 0.6 1.285 -32.54 6 MH-297 to MH 298 Cum -2 19.2 0.6 1.3 -29.95 7 MH-298 to MH 299 Cum -2 18.8 0.6 1.29 -29.10 8 MH-299 to MH 300 Cum -2 12.9 0.6 1.275 -19.74 9 MH-300 to MH 301 Cum -2 43.7 0.6 1.305 -68.43 10 MH-301 to MH 302 Cum -2 27.9 0.6 1.3 -43.52 11 MH-302 to MH 303 Cum -2 18.8 0.6 1.235 -27.86 12 MH-303 to MH 304 Cum -2 18.8 0.6 1.235 -27.86	1	MH-542 to MH 543	0.0	-			4.0.	70.75
Base	2		Cum	-2	50.4	0.6	1.21	-/3.18
4 MH-545 to MH 296 Cum -2 118.7 0.6 1.415 -201.55 5 MH-296 to MH 297 Cum -2 21.1 0.6 1.285 -32.54 6 MH-297 to MH 298 Cum -2 19.2 0.6 1.3 -29.95 7 MH-298 to MH 299 Cum -2 18.8 0.6 1.29 -29.10 8 MH-299 to MH 300 Cum -2 12.9 0.6 1.275 -19.74 9 MH-300 to MH 301 Cum -2 43.7 0.6 1.305 -68.43 10 MH-301 to MH 302 Cum -2 27.9 0.6 1.3 -43.52 11 MH-302 to MH 303 Cum -2 18.8 0.6 1.235 -27.86 12 MH-303 to MH 304 Cum -2 18.8 0.6 1.235 -27.86		Base	Cum		13.1	0.6	1.21	-19.02
5 MH-296 to MH 297 Cum -2 21.1 0.6 1.285 -32.54 6 MH-297 to MH 298 Cum -2 19.2 0.6 1.3 -29.95 7 MH-298 to MH 299 Cum -2 18.8 0.6 1.29 -29.10 8 MH-299 to MH 300 Cum -2 12.9 0.6 1.275 -19.74 9 MH-300 to MH 301 Cum -2 43.7 0.6 1.305 -68.43 10 MH-301 to MH 302 Cum -2 27.9 0.6 1.3 -43.52 11 MH-302 to MH 303 Cum -2 27.9 0.6 1.33 -43.52 12 MH-303 to MH 304 Cum -2 18.8 0.6 1.235 -27.86	4	MH-545 to MH 296						
6 MH-297 to MH 298 Base Cum -2 19.2 0.6 1.3 -29.95 7 MH-298 to MH 299 Base Cum -2 18.8 0.6 1.29 -29.10 8 MH-299 to MH 300 Base Cum -2 12.9 0.6 1.275 -19.74 9 MH-300 to MH 301 Base Cum -2 43.7 0.6 1.305 -68.43 10 MH-301 to MH 302 Base Cum -2 27.9 0.6 1.3 -43.52 11 MH-302 to MH 303 Base Cum -2 18.8 0.6 1.235 -27.86 12 MH-303 to MH 304	5	MH-296 to MH 297						
7 MH-298 to MH 299 Base Cum -2 18.8 0.6 1.29 -29.10 8 MH-299 to MH 300 Base Cum -2 12.9 0.6 1.275 -19.74 9 MH-300 to MH 301 Base Cum -2 43.7 0.6 1.305 -68.43 10 MH-301 to MH 302 Base Cum -2 27.9 0.6 1.3 -43.52 11 MH-302 to MH 303 Base Cum -2 18.8 0.6 1.235 -27.86 12 MH-303 to MH 304	6	MH-297 to MH 298						
8 MH-299 to MH 300 Cum -2 12.9 0.6 1.275 -19.74 9 MH-300 to MH 301 Cum -2 43.7 0.6 1.305 -68.43 10 MH-301 to MH 302 Cum -2 27.9 0.6 1.3 -43.52 11 MH-302 to MH 303 Cum -2 18.8 0.6 1.235 -27.86 12 MH-303 to MH 304 Cum -2 18.8 0.6 1.235 -27.86	7	MH-298 to MH 299						
9 MH-300 to MH 301 Base Cum -2 43.7 0.6 1.305 -68.43 10 MH-301 to MH 302 Base Cum -2 27.9 0.6 1.3 -43.52 11 MH-302 to MH 303 Base Cum -2 18.8 0.6 1.235 -27.86 12 MH-303 to MH 304	8	MH-299 to MH 300						
MH-301 to MH 302 Cum -2 27.9 0.6 1.3 -43.52 11 MH-302 to MH 303 Cum -2 18.8 0.6 1.235 -27.86 12 MH-303 to MH 304 Cum -2 18.8 0.6 1.235 -27.86	9	MH-300 to MH 301						
11 MH-302 to MH 303 Base Cum -2 18.8 0.6 1.235 -27.86 12 MH-303 to MH 304	10	MH-301 to MH 302						
12 MH-303 to MH 304	11	MH-302 to MH 303						
	12		Cum	-2			1.26	-53.37

Sr. No.	Description	Unit	No's	L	В	н	Qty.
13	MH-304 to MH305 Base	Cum	-2	32	0.6	1.31	-50.30
14	MH-305 to MH306 Base	Cum	-2	59.9	0.6	1.3	-93.44
15	MH-306 to O-33	Cum	-2	48	0.6	1.29	
16	Base MH-546 to MH-547						-74.30
17	Base MH-547 to MH-549	Cum	-2	21.5	0.9	1.215	-47.02
18	Base MH-549 to MH-548	Cum	-2	55.8	0.9	1.32	-132.58
19	Base	Cum	-2	42.7	0.9	1.42	-109.14
	MH-548 to MH-531 Base	Cum	-2	66.9	0.9	1.43	-172.20
20	MH-531 to MH-532 Base	Cum	-2	41.6	0.9	1.735	-129.92
21	MH-532 to MH-533 Base	Cum	-2	25.7	0.9	1.705	-78.87
22	MH-533 to MH-534 Base	Cum	-2	36.6	0.9	1.585	-104.42
23	MH-534 to MH-535						
24	Base MH-535 to MH-536	Cum	-2	50	0.9	1.57	-141.30
25	Base MH-536 to MH-537	Cum	-2	22.2	0.9	1.525	-60.94
26	Base MH-537 to MH-538	Cum	-2	29.7	0.9	1.65	-88.21
	Base	Cum	-2	36.2	0.9	1.53	-99.69
27	MH-538 to MH-539 Base	Cum	-2	51.6	0.9	1.535	-142.57
28	MH-539 to MH-540 Base	Cum	-2	9.5	0.9	1.51	-25.82
29	MH-540 to O-59 Base	Cum	-2		0.9	1.51	-123.13
		Cuiii	-2			1.51	-125.15
1	Road 20/3 Pandeshwar New Road Node-O-61			Sides	1		
2	Base MH-528	Cum	-1	112.8	0.75	1.355	-114.63
3	Base Node-0-58	Cum	-1	17.3	0.6	1.255	-13.03
	Base	Cum	-1	88.8	0.6	1.225	-65.27
4	MH-527 Base	Cum	-1	44.9	0.6	1.275	-34.35
	Road 22/4 Bolar Fisheries College Road			Sides	1		
1	MH-377 to O-39 Base	Cum	-1		0.6	1.325	-91.27
		Cum				1.020	31.27
1	Road-23/5 Milihithulu Road MH-261			Sides	1		
2	Base MH-262	Cum	-1	41	0.9	1.32	-48.71
3	Base MH-263	Cum	-1	49.9	0.9	1.275	-57.26
	Base	Cum	-1	55.3	0.9	1.225	-60.97
4	MH-615 Base	Cum	-1	31.4	0.9	1.215	-34.34
5	O-29 Base	Cum	-1	27.2	0.9	1.21	-29.62
6	MH-578 Base	Cum	-1	16.4	0.9	1.245	-18.38
7	MH-577 Base	Cum	-1	19.7	0.9	1.245	-22.07
8	MH-576						
9	Base MH-575	Cum	-1	31.8	0.9	1.23	-35.20
10	Base O-68	Cum	-1	33.2	0.9	1.215	-36.30
11	Base MH-582	Cum	-1	31.3 Sides	0.9	1.43	-40.28
	Base	Cum	-2	36.3	0.6	2.32	-101.06
12	MH-583 Base	Cum	-2	20.9	0.6	2.08	-52.17
13	MH-584 Base	Cum	-2	17.4	0.6	1.625	-33.93
14	MH-585 Base	Cum	-2	13.8	0.6	1.42	-23.52
15	MH-586			28.4			
16	Base MH-587	Cum	-2		0.6	1.345	-45.84
17	D-69	Cum	-2	9	0.6	1.26	-13.61
18	Base MH-618	Cum	-2	21.6	0.6	1.225	-31.75
	Slab	Cum	-2	12.9	1.1	0.15	-4.26
19	MH-619	<u> </u>		<u> </u>			

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
-	Base MH-620	Cum	-2	24	0.6	2	-57.60
	Base MH-621	Cum	-2	16.9	0.6	1.76	-35.69
	Base	Cum	-2	21.4	0.6	1.305	-33.51
	MH-622 Base	Cum	-2	10.1	0.6	1.305	-15.82
	MH-623 Base	Cum	-2	41.4	0.6	1.595	-79.24
24	0-70						
	Base MH-366	Cum	-2		0.6	1.81	-51.69
	Base MH-258	Cum	-1	24.8	1.2	1.875	-55.80
	Base MH-259	Cum	-1	52	1.2	1.73	-107.95
	Base	Cum	-1	28.1	1.2	1.79	-60.36
	MH-260 Base	Cum	-1	101.5	1.2	1.67	-203.41
	Road-24/6 Mangaladevi Temple Road		Side	2			
1	MH-223 to MH-224 Base	Cum	-2		1.2	1.52	-338.17
2	MH-224 to MH-225				1.2		
	Base MH-225 to MH-226	Cum	-2		1.2	1.525	-204.96
	Base MH-226 to MH-257	Cum	-2	65.3	1.2	1.515	-237.43
	Base	Cum	-2	145.2	1.2	1.58	-550.60
	MH-207 to MH-208 Base	Cum	-2	48	0.9	1.26	-108.86
	MH-208 to MH-209 Base	Cum	-2	37.2	0.9	1.26	-84.37
	MH-209 to MH-210 Base	Cum	-2	22.3	0.9	1.27	-50.98
8	MH-210 to MH-211	Cum	-2		0.9	1.245	-160.68
9	Base MH-211 to MH-212						
	Base MH-212 to MH-213	Cum	-2	35.3	0.9	1.23	-78.15
	Base MH-213 to MH-214	Cum	-2	85.6	0.9	1.245	-191.83
	MH-214 to MH-215	Cum	-2	55.1	0.9	1.24	-122.98
	Base	Cum	-2	64.3	0.9	1.25	-144.68
	MH-215 to MH-216 Base	Cum	-2	101.3	0.9	1.26	-229.75
	MH-216 to MH-256 Base	Cum	-2	36.8	0.9	1.835	-121.55
15	MH-256 to O-62	Cum	-2		0.9	1.65	-120.29
16	Base MH-218 to MH-219						
	Base MH-219 to MH-220	Cum	-2	50.7	0.6	1.605	-97.65
	Base MH-220 to MH-221	Cum	-2	34.9	0.6	1.545	-64.70
	Base	Cum	-2	25.1	0.6	1.57	-47.29
	MH-221 to MH-222 Base	Cum	-2	85.8	0.6	1.54	-158.56
	Road 25/7 Monkeystand New Road			Sides	1		
1	MH-564 Base	Cum	-1	80.8	0.6	1.595	-77.33
2	MH-565						-17.02
3	Base MH-566	Cum	-1			1.585	
	Base MH-567	Cum	-1	43.3	0.6	1.405	-36.50
	Base O-34	Cum	-1	120.8	0.6	1.23	-89.15
	Base	Cum	-1	9.7	0.6	1.225	-7.13
	MH-613 Base	Cum	-1	72.9	0.6	1.84	-80.48
	MH-614 Base	Cum	-1	40.1	0.6	1.52	-36.57
8	MH-568 Base	Cum	-1		0.6	1.515	-44.72
9	MH-309						
10	Base 0-34	Cum	-1		0.6	1.445	-46.12
	Base MH-569	Cum	-1	54.8	0.6	1.27	-41.76
	Base MH-570	Cum	-1	52.7	0.6	1.5	-47.43
	Base	Cum	-1	36.1	0.6	1.31	-28.37
	MH-567 Base	Cum	-1	17.1	0.6	1.245	-12.77

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Road 26/8 Jeppu Market Road			Sides	2		
1	MH-229 Base	Cum	-2	121.2	0.6	2.465	-358.51
2	MJ-230 Base	Cum	-2	62.8	0.6	2.485	-187.27
3	MH-605						
4	Base 0-66	Cum	-2	136	0.6	1.345	-219.50
5	Base MH-608	Cum	-2	12.8	0.6	1.215	-18.66
6	Base MH-609	Cum	-2	21.6	0.6	1.23	-31.88
	Base	Cum	-2	38.2	0.6	1.22	-55.92
	Road 27/9 Gujjarkere Road			Sides	2		
1	MH-234 to MH-235 Base	Cum	-2	16.9	1.2	1.77	-71.79
2	MH-235 to MH-236 Base	Cum	-2	29.4	1.2	1.955	-137.94
3	MH-236 to MH-237 Base	Cum	-2	70.4	1.2	1.96	-331.16
4	MH-237 to MH-238						
5	Base MH-238 to MH-239	Cum	-2	68.4	1.2	1.81	-297.13
6	Base MH-239 to MH-240	Cum	-2	19.1	1.2	1.725	-79.07
7	Base MH-240 to MH-241	Cum	-2	37.7	1.2	1.71	-154.72
	Base	Cum	-2	21.3	1.2	1.625	-83.07
8	MH-241 to MH-242 Base	Cum	-2	25.9	1.2	1.56	-96.97
9	MH-242 to MH-591 Base	Cum	-2	31.2	1.2	1.535	-114.94
10	MH-591 to MH-246 Base	Cum	-2	48.3	1.2	1.535	-177.94
11	MH-246 to MH-245						
12	Base MH-245 to O-65	Cum	-2	31	1.2	1.555	-115.69
13	Base MH-592 to MH-593	Cum	-2	39.4	1.2	1.875	-177.30
14	Base MH-593 to MH-594	Cum	-2	37.3	0.9	1.675	-112.46
	Base	Cum	-2	4.1	0.9	1.655	-12.21
15	MH-594 to MH-595 Base	Cum	-2	58.3	0.9	1.53	-160.56
16	MH-595 to MH-596 Base	Cum	-2	56.8	0.9	1.32	-134.96
17	MH-596 to MH-597 Base	Cum	-2		0.9	1.25	-6.98
18	MH-597 to MH-598	Cum	-2		0.9	1.265	-94.50
19	Base MH-598 to MH-599						
20	Base MH-599 to MH-600	Cum	-2	42.3	0.9	1.24	-94.41
21	Base MH-600 to MH-601	Cum	-2	43.3	0.9	1.265	-98.59
22	Base MH-601 to MH-602	Cum	-2	21.7	0.9	1.32	-51.56
	Base	Cum	-2	62.1	0.9	1.315	-146.99
	MH-602 to MH-603 Base	Cum	-2	7.4	0.9	1.325	-17.65
24	MH-603 to O-64 Base	Cum	-2	72.7	0.9	1.715	-224.42
25	MH-229 to MH-230 Base	Cum	-2	62.8		2.485	-280.90
26	MH-230 to MH-231						
27	Base MH-231 to MH-589	Cum	-2	20.1	0.9	2.43	-87.92
28	Base MH-589 to MH-232	Cum	-2	37.5	0.9	2.13	-143.78
29	Base MH-232 to O-63	Cum	-2	57.6	0.9	1.93	-200.10
	Base	Cum	-2	29.2	0.9	1.91	-100.39
30	MH-607 to MH-608 Base	Cum	-2	21.6	0.9	1.23	-47.82
31	MH-608 to MH-609 Base	Cum	-2	38.2	0.9	1.22	-83.89
32	MH-609 to MH-610 Base	Cum	-2			1.29	
33	MH-610 to O-67						
	Base	Cum Cum	-2	41.6 Total Qty.	0.9	1.365	-102.21 46232.58
						-	

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	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						
	Road No.2/19-Old Kent Road						
	LHS						
	Ch.0.0 to Ch.150.0	Sqm	1	150	3.76		564
	Ch.165.0 to Ch.180.0 Ch.230.0 to Ch.440.0	Sqm Sqm	1	15 210	4.6 3.4		714
	Ch.450.0 to Ch.530.0	Sqm	1	80	1.98		158.4
	Ch.540.0 to Ch.570.0	Sqm	1	30	1.73		51.9
	Ch.580.0 to Ch.730.0	Sqm	1	150	2.07		310.5
	RHS						
	Ch.0.0 to Ch.130.0	Sqm	1	130	2.78		361.4
	Ch.130.0 to Ch.740.0 Road No.3/20-Pandeshwar New Road	Sqm	1	610	2.36		1439.6
	RHS						
	Ch.0.0 to Ch.170.0	Sqm	1	170	1.85		314.5
	Ch.175.0 to Ch.205.0	Sqm	1	30	2.2		66
	Road No.4/22-Bolar Fisheries College Road						
	LHS			450	0.00		1015
	Ch.0.0 to Ch.150.0	Sqm	1	150	2.83		424.5
	RHS Ch.105.0 to Ch.125.0	Sqm	1	20	1.65		33
	Road No.5/23-Milihithuli Road	Oqiii	- 1	20	1.00		33
	LHS						L
	Ch.135.0 to Ch.180.0	Sqm	1	45	2.42		108.9
	Ch.190.0 to Ch.230.0	Sqm	1	40	5.85		234
	Ch.320.0 to Ch.340.0	Sqm	1	20	3.12		62.4
	Ch.355.0 to Ch.370.0	Sqm	1	15	2.53		37.95
	Ch.380.0 to Ch.390.0 Ch.390.0 to Ch.420.0	Sqm	1	10 30	3.4 3.13		34
	Ch.560.0 to Ch.570.0	Sqm Sqm	1	10	2.64		93.9 26.4
	Ch.580.0 to Ch.600.0	Sqm	1	20	1.75		35
	Ch.630.0 to Ch.640.0	Sqm	1	20	0.81		16.2
	RHS						
	Ch.190.0 to Ch.210.0	Sqm	1	20	4.25		85
	Ch.570.0 to Ch.590.0	Sqm	1	20	1.88		37.6
	Ch.590.0 to ch.600.0	Sqm	1	10	1.34		13.4
	Road No.6/24-Mangaladevi Temple Road LHS						
	Ch.0.0 to Ch.60.0	Sqm	1	60	7.75		465
	Ch.70.0 to Ch.230.0	Sqm	1	160	5.1		816
	Ch.260.0 to ch.620.0	Sqm	1	360	4.13		1486.8
	RHS						
	Ch.0.0 to Ch.620.0	Sqm	1	620	4.57		2833.4
	Road No.7/25-Monkeystand New Road						1
	LHS Ch.0.0 to Ch.25.0	Sqm	1	25	2.68		67
	Ch.30.0 to Ch.100.0	Sqm	1	70	1.85		129.5
	Ch.160.0 to Ch.180.0	Sqm	1	20	3.03		60.6
	Ch.270.0 to Ch.290.0	Sqm	1	20	2.88		57.6
	Ch.515.0 to Ch.550.0	Sqm	1	35	2.28		79.8
	RHS						
	Ch.0.0 to Ch.570.0	Sqm	1	570	2.38		1356.6
	Road No.8/26-Jeppu Market Road LHS						
	Ch.0.0 to Ch.195.0	Sqm	1	195	2.47		481.65
	Ch.210.0 to Ch.220.0	Sqm	1	10	2.9		29
	RHS						
	Ch.0.0 to Ch.200	Sqm	1	200	4.05		810
	Ch.210.0 to Ch.220.0	Sqm	1	10	2.2		22
	Road No.9/27-Gujjarkere Road						1
	LHS Ch.0.00 to Ch.85.00	Sqm	1	85	1.36		115.6
	Ch.95.0 to ch.115.0	Sqm	1	20	4		80
	Ch.125.0 to Ch.560.0	Sqm	1	435	4.11		1787.85
	Ch.570.0 to Ch.576.0	Sqm	1	6	3		18
	RHS						
	Ch.35.0 to Ch.330.0	Sqm	1	295	2.33		687.35
	Ch.330.0 to Ch.576.0	Sqm	1	246	1.85		455.1
	Flush Footpath with Carriageway						
	Road No.1/18-Old Port Road						
	LHS						
	Ch.80.0 to Ch.95.0	Sqm	1	15	1.32		19.80
	Road No.2/19-Old Kent Road	•					
	LHS				-	-	
	Ch.180.0 to Ch.230.0	Sqm	1	50	1.38		69.00
	Ch.460.0 to Ch.480.0	Sqm	1	20	1.31		26.20
	Ch.690.0 to Ch.710.0	Sqm	1	20	2.2		44.00
	Ch.730.0 to Ch.770.0	Sqm	1	40 20	1.2 2.58		48.00
	Ch.770.0 to Ch.790.0	Sqm	7	20	2.58		51.60
		1					
	RHS Ch.60.0 to Ch.70.0	Sqm	1	10	2.72		27.20

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.195.0 to Ch.213.0 Ch.740.0 to Ch.780.0	Sqm Sqm	1	18 40	0.91 0.78		16.38 31.20
	Road No.3/20-Pandeshwar New Road	Sqm	1	40	0.76		31.20
	RHS						
	Ch.10.0 to Ch.55.0	Sqm	1	45	1.1		49.50
	Ch.100.0 to Ch.170.0	Sqm	1	70	1.31		91.70
	Ch.170.0 to Ch.225.0	Sqm	1	55	0.83		45.65
	Ch.225.0 to Ch.290.0	Sqm	1	65	0.3		19.50
	LHS						
	Ch.150.0 to Ch.220.0	Sqm	1	70	0.52		36.40
	Road No.4/22-Bolar Fisheries College Road						
	RHS						
	Ch.0.0 to ch.30.0	Sqm	1	30	0.49		14.70
	Ch.50.0 to Ch.105.0	Sqm	1	55	0.66		36.30
	Ch.128.0 to Ch.150.0	Sqm	1	22	0.73		16.06
	Road No.5/23-Milihithuli Road						
	LHS						
	Ch.0.0 to Ch.20.0	Sqm	1	20	2.25		45.00
	Ch.48.0 to Ch.52	Sqm	1	4	3.5		14.00
	Ch.118.0 to Ch.124.0	Sqm	1	6	8.5		51.00
	Ch.134.0 to Ch.180.0	Sqm	1	46	1.28		58.88
	Ch.212.0 to Ch.250.0	Sqm	1	38	1.55		58.90
	Ch.318.0 to Ch.345.0	Sqm	1	27	1.44		38.88
	Ch.355.0 to Ch.368.0	Sqm	1	13	3.4		44.20
	Ch. 400.0 to Ch. 400.0	Sqm	1	25	1.84		46.00
	Ch.400.0 to Ch.420.0	Sqm	1	20	2.85		57.00
	Ch.472.0 to Ch.480.0	Sqm	1	8	1.38		11.04
	Ch.485.0 to Ch.495.0	Sqm	1	10 35	1.9 0.63		19.00
	Ch.535.0 to Ch.570.0	Sqm					22.05
	Ch.580.0 to Ch.590.0 Ch.590.0 to Ch.595.0	Sqm Sqm	1	10 5	3.3 1.33		33.00
			1		0.72		6.65
	Ch.595.0 to Ch.605.0	Sqm	1	10 35	1.02		7.20
	Ch.610.0 to Ch.645.0 Ch.645.0 to Ch.670.0	Sqm	1	25	2.38		35.70 59.50
	Ch.675.0 to Ch.740.0	Sqm Sqm	1	65	0.83		53.95
	RHS	Sqiii	- '	00	0.63		55.95
	Ch.0.0 to Ch.70.00	Sqm	1	70	2.02		141.40
	Ch.70.0 to ch.115.0	Sqm	1	45	2.64		118.80
	Ch.115.0 to ch.135.0	Sqm	1	20	4.63		92.60
	Ch.180.0 to Ch.190.0	Sqm	1	10	1.5		15.00
	Ch.235.0 to Ch.240.0	Sqm	1	5	3.5		17.50
	Ch.245.0 to ch.300.0	Sqm	1	55	1.85		101.75
	Ch.300.00 to Ch.320.0	Sqm	1	20	3.3		66.00
	Ch.340.0 to Ch.358.0	Sqm	1	18	3.56		64.08
	Ch.378.0 to ch.380.0	Sqm	1	2	1.5		3.00
	Ch.420.0 to ch. 440.0	Sqm	1	20	3.1		62.00
	Ch.460.0 to Ch.474.0	Sqm	1	14	0.64		8.96
	Ch.474.0 to Ch.528.0	Sqm	1	54	1.87		100.98
	Ch.528.0 to Ch.550.0	Sqm	1	22	0.52		11.44
	Ch.605.0 to Ch.630.0	Sqm	1	25	0.77		19.25
	Ch.640.0 to Ch.660.0	Sqm	1	20	0.6		12.00
	Ch.670.0 to ch.740.0	Sqm	1	70	1.67		116.90
	Ch.758.0 to Ch.762.0	Sqm	1	4	1.08		4.32
	Road No.7/25-Monkeystand New Road						
	LHS						
	Ch.28.0 to Ch.30.0	Sqm	1	2	3		6.00
	Ch.100.0 to Ch.160.0	Sqm	1	60	0.73		43.80
	Ch.195.0 to Ch.230.0	Sqm	1	35	0.46		16.10
	Ch.250.0 to Ch.270.0	Sqm	1	20	1.8		36.00
	Ch.290.0 to Ch.295.0	Sqm	1	5	1.4		7.00
	Ch.295.0 to Ch.318.0	Sqm	1	23	1.04		23.92
	Ch.325.0 to Ch.355.0	Sqm	1	30	0.83		24.90
	Ch.395.0 to Ch.440.0	Sqm	1	45	1		45.00
	Ch.458.0 to Ch.470.0	Sqm	1	12	0.5		6.00
	Ch.470.0 to Ch.508.0	Sqm	1	38	0.74		28.12
	Ch.530.0 to Ch.550.0	Sqm	1	20	2.05		41.00
	RHS						
	Ch.358.0 to Ch.410.0	Sqm	1	52	1.24		64.48
	Ch.445.0 to Ch.475.0	Sqm	1	30	1.07		32.10
	Road No.8/26-Jeppu Market Road						
	LHS	0.5	,		4 10		00.00
	Ch.198.0 to Ch.212.0	Sqm	1	14	1.43		20.02
	RHS	0	,	00	0.70		40.00
	Ch.190.0 to Ch.212.0 Road No.9/27-Gujjarkere Road	Sqm	1	22	0.73		16.06
	Road No.9/27-Gujjarkere Road LHS	-					
	Ch.88.0 to Ch.98.0	Sqm	1	10	0.9		9.00
	Ch.565.0 to Ch.576.0	Sqm	1	11	0.9		10.01
	RHS	SqIII	1	11	0.81		10.01
	Ch.25.0 to Ch.35.0	Sam	1	10	1		10.00
	OΠ.ΔΟ.0 (U OΠ.ΟΟ.U	Sqm	1	10			10.00
	Parking Area	+	1		-		
	2/19 - Old Kent Road	+	1		-		1
		Sqm	1	60	2.4		144.00
							. 144 0
	Ch.30.0 to Ch.90.00	Sqiii		00	2.4		111.00
	6/24 - Mangaladevi Temple Road Ch.320.0 to CH.440.0	Sqm	1	120	2.47		296.40

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.140.0 to Ch.200.0 Ch.240.0 to Ch.275.0	Sqm Sqm	1		2.81 2.67		168.60 93.45
	Pavment 2/19-Old Kent Road						
	Ch.200.0 to Ch.260.0	Cum	1	60	6.53		391.80
	Ch.260.0 to Ch.310.0	Cum	1	50	4.47		223.50
	Ch.310.0 to Ch.360.0 Ch.360.0 to Ch.410.0	Cum Cum	1	50 50	4.89 6.53		244.50 326.50
	Ch.410.0 to Ch.470.0	Cum	1	60	3.69		221.40
	Ch.470.0 to Ch.530.0	Cum	1	60	4.09		245.40
	Ch.530.0 to Ch.580.0 Ch.580.0 to ch.630.0	Cum	1	50 50	4.4 6.23		220.00 311.50
	Ch.630.0 to Ch.680.0	Cum	1		4.23		211.50
	Ch.680.0 to Ch.720.0	Cum	1	40	5.268		210.72
	Ch.720.0 to Ch.790.0	Cum	1	70	2.4		168.00
	3/20-Pandeshwar New Road Ch.0.0 to Ch.20.0	Cum	1	20	2.81		56.20
	Ch.20.0 to Ch.70.0	Cum	1	50	4.192		209.60
	Ch.70.0 to Ch.120.0	Cum	1	50	3.696		184.80
	Ch.120.0 to ch.180.0 Ch.180.0 to Ch.220.0	Cum Cum	1	60 40	4.367 2.769		262.02 110.76
	Ch.220.0 to Ch.280.0	Cum	1	60	2.19		131.40
	Road No.4/22-Bolar Fisheries College Road						
-	Ch.0 to Ch.10.0 Ch.10.0 to Ch.60.0	Cum Cum	1	10 50	4.9 4.2		49.00 210.00
	Ch.10.0 to Ch.10.0 Ch.60.0 to Ch.110.0	Cum	1	50	5.5		275.00
	Ch.110.0 to Ch.155.0	Cum	1	45	5.38		242.10
<u> </u>	Road No.5/23-Milihithuli Road Ch.0.0 to Ch.20.0	C		00	2.54		E0.00
	Ch.20.0 to Ch.70.0	Cum Cum	1	20 50	3.92		50.80 196.00
	Ch.70.0 to Ch.120.0	Cum	1	50	4.8		240.00
	Ch.120.0 to ch.160.0	Cum	1	40	3.88		155.20
	Ch.160.0 to Ch.210.0 Ch.210.0 to Ch.260.0	Cum Cum	1	50 50	4.4 2.36		220.00 118.00
	Ch.260.0 to Ch.310.0	Cum	1	50	2.03		101.50
	Ch.310.0 to Ch.360.0	Cum	1	50	3.52		176.00
	Ch.360.0 to Ch.420.0 Ch.420.0 to Ch.470.0	Cum Cum	1	60 50	3.07 2.25		184.20 112.50
	Ch.470.0 to Ch.520.0	Cum	1	50	2.23		133.00
	Ch.520.0 to Ch.560.0	Cum	1	40	3.22		128.80
	Ch.560.0 to Ch.610.0	Cum	1	50	2.96		148.00
	Ch.610.0 to Ch.670.0 Ch.670.0 to Ch.710.0	Cum Cum	1	60 40	6.2 4.72		372.00 188.80
	Ch.710.0 to Ch.760.0	Cum	1	50	2.69		134.50
	Road No.6/24-Mangaladevi Temple Road	Comm		20	40.4		000.00
	Ch.0.0 to Ch.30.0 Ch.30.0 to Ch.80.0	Cum Cum	1	30 50	12.1 12.1		363.00 605.00
	Ch.80.0 to Ch.130.0	Cum	1				605.00
	Ch.130.0 to Ch.180.0	Cum	1	50	12.1		605.00
	Ch.180.0 to Ch.270.0 Ch.270.0 to Ch.310.0	Cum Cum	1		12.1 12.1		1089.00 484.00
	Ch.310.0 to Ch.360.0	Cum	1	50	14.6		730.00
	Ch.360.0 to Ch.410.0	Cum	1	50	14.6		730.00
	Ch.410.0 to Ch.460.0 Ch.460.0 to Ch.510.0	Cum Cum	1	50 50	12.1 12.1		605.00 605.00
	Ch.510.0 to Ch.560.0	Cum	1	50	12.1		605.00
	Ch.560.0 to Ch.628.0	Cum	1	68	12.1		822.80
	Road No.7/25-Monkeystand New Road Ch.0.0 to Ch.20.0	Cum	1	20	6.36		127.20
	Ch.20.0 to Ch.70.0	Cum	1	50	6.36		318.00
	Ch.70.0 to Ch.120.0	Cum	1	50	4.4		220.00
	Ch.120.0 to Ch.170	Cum	1	50 50	5.3		250.00
	Ch.170.0 to Ch.220.0 Ch.220.0 to Ch.270.0	Cum Cum	1		6.36		265.00 318.00
	Ch.270.0 to Ch.310.0	Cum	1	40	5.3		212.00
	Ch.310.0 to Ch.370.0	Cum	1	60	4.78		286.80
	Ch.370.0 to Ch.420.0 Ch.420.0 to Ch.470.0	Cum Cum	1	50 50	5.3 3.63		265.00 181.50
	Ch.470.0 to Ch.570.0	Cum	1	100	6.37		637.00
	Road No.8/26-Jeppu Market Road				2.27		100 50
-	Ch.0.0 to Ch.50.0 Ch.50.0 to Ch.90.0	Cum Cum	1	50 40	9.87 9.3		493.50 372.00
	Ch.90.0 to Ch.130.0	Cum	1	40	10.22		408.80
	Ch.130.0 to Ch.225.0	Cum	1	95	8.22		780.90
	Road No.9/27-Gujjarkere Road Ch.0.0 to Ch.20.0	Cum	1	20	4.4		88.00
	Ch.20.0 to Ch.70.0	Cum	1	50	4.4		220.00
	Ch.70.0 to Ch.110.0	Cum	1	60	4.4		264.00
-	Ch.110.0 to Ch.170.0 Ch.170.0 to Ch.220.0	Cum Cum	1	60 50	5.3 8.32		318.00 416.00
	Ch.220.0 to Ch.270.0	Cum	1	50	5.3		265.00
	Ch.270.0 to Ch.320.0	Cum	1	50	4.4		220.00
	Ch.320.0 to Ch.370.0	Cum	1	50	4.4		220.00
	Ch.370.0 to Ch.420.0 Ch.420.0 to Ch.470.0	Cum Cum	1	50 50	4.4 3.53		220.00 176.50
	Ch.470.0 to Ch.520.0	Cum	1				194.00

Some	Sr. No.	Description Ch.520.0 to Ch.570.0	Unit Cum	No's	L 50	B 3.88	н	Qty. 194.00
Grade with cemeral 22 calluge, with 20mm and down 322 grades granten median comes agregation 6.00 de come and the aggregation 6.00 de come and the come and the aggregation for all materials, abbout HCMC of machiner, curing corrected are preparlierations. Specification No. KBS 4.1. **Road 191 Old Forn Road** **Grad 191 Old Forn Road*		G1.520.0 to G1.570.0				3.00		43500.98
Road 187 Old Fort Road	14	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,						
Road 191 Old Kent Road					Sides	1 00		
1 MH-542 to MH 543								
2 MM-541 to MH 544	1	MH-542 to MH 543	0	2			0.075	0.00
Min-S41 to Mit 545	2	MH-543 to MH 544						
Mil-54 to Mil-296	3		Cum	2	13.1	1.1		
Base	4		Cum	2	49.4	1.1	0.075	8.15
Base Cum 2 21.1 1.1 0.075 3.48		Base	Cum	2	118.7	1.1	0.075	19.59
Base		Base	Cum	2	21.1	1.1	0.075	3.48
Base		Base	Cum	2	19.2	1.1	0.075	3.17
Base	7	Base	Cum	2	18.8	1.1	0.075	3.10
9 MH-300 to MH 301 Cum	8		Cum	2	12.9	1.1	0.075	2.13
10 MH-301 to MH-302	9	MH-300 to MH 301						
11 MH-302 to MH 303	10	MH-301 to MH 302						
12 MH-303 to MH 304	11	MH-302 to MH 303						
13 MH-304 to MH305 Sase	12		Cum	2	18.8	1.1	0.075	3.10
Base	13		Cum	2	35.3	1.1	0.075	5.82
Base		Base	Cum	2	32	1.1	0.075	5.28
Base		Base	Cum	2	59.9	1.1	0.075	9.88
Base		Base	Cum	2	48	1.1	0.075	7.92
Base	16		Cum	2	21.5	1.4	0.075	4.52
MH-549 to MH-548	17		Cum	2	55.8	1 4	0.075	11 72
19 MH-548 to MH-531 Base	18	MH-549 to MH-548						
20	19	MH-548 to MH-531						
MH-532 to MH-533 Base	20		Cum	2	66.9	1.4	0.075	14.05
Base	21		Cum	2	41.6	1.45	0.075	9.05
Base		Base	Cum	2	25.7	1.45	0.075	5.59
Base		Base	Cum	2	36.6	1.45	0.075	7.96
Base		Base	Cum	2	50	1.45	0.075	10.88
Base	24		Cum	2	22.2	1.45	0.075	4.83
26 MH-537 to MH-538 Base Cum 2 36.2 1.4 0.075 7.60	25		Cum	2	29.7	1.45	0.075	6.46
27 MH-538 to MH-539 Base Cum 2 51.6 1.4 0.075 10.84	26							
28 MH-539 to MH-540 Cum 2 9.5 1.4 0.075 2.00 29 MH-540 to O-59 Cum 2 45.3 1.4 0.075 9.51 Road 20/3 Pandeshwar New Road Sides 1 1 Node-O-61 Sides 1 2 MH-528 Cum 1 11.28 1.25 0.075 10.56 2 MH-528 Cum 1 17.3 1.1 0.075 1.43 3 Node-O-58 Cum 1 88.8 1.1 0.075 7.33 4 MH-527 Cum 1 44.9 1.1 0.075 3.70 Road 22/4 Bolar Fisheries College Road Sides 1	27	MH-538 to MH-539						
29 MH-540 to O-59 Cum 2 45.3 1.4 0.075 9.51 Road 20/3 Pandeshwar New Road Sides 1 1 Node-O-61 Cum 1 112.8 1.25 0.075 10.58 2 MH-528 Cum 1 17.3 1.1 0.075 1.43 3 Node-O-58 Cum 1 88.8 1.1 0.075 7.33 4 MH-527 Cum 1 44.9 1.1 0.075 3.70 Road 22/4 Bolar Fisheries College Road Sides 1	28	MH-539 to MH-540						
Base Cum 2 45.3 1.4 0.075 9.51	29		Cum	2	9.5	1.4	0.075	2.00
1 Node-O-61 Base Cum 1 112.8 1.25 0.075 10.58 Base Cum 1 17.3 1.1 0.075 1.43 3 Node-O-58 Cum 1 88.8 1.1 0.075 7.33 4 MH-527 Base Cum 1 44.9 1.1 0.075 3.70 Road 22/4 Bolar Fisheries College Road Sides 1			Cum	2	45.3	1.4	0.075	9.51
Base Cum 1 112.8 1.25 0.075 10.58 2 MH-528	1				Sides	1		
Base Cum 1 17.3 1.1 0.075 1.43 3 Node-O-58		Base	Cum	1	112.8	1.25	0.075	10.58
Base Cum 1 88.8 1.1 0.075 7.33 4 MH-527 Cum 1 44.9 1.1 0.075 3.70 Road 22/4 Bolar Fisheries College Road Sides 1		Base	Cum	1	17.3	1.1	0.075	1.43
4 MH-527 Base Cum 1 44.9 1.1 0.075 3.70 Road 22/4 Bolar Fisheries College Road Sides 1	3		Cum	1	88.8	1.1	0.075	7.33
Road 22/4 Bolar Fisheries College Road Sides 1	4	MH-527						
			Ouiii	<u>'</u>			0.075	5.10
	1	MH-377 to O-39						9.47

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Road-23/5 Milihithulu Road			Sides	1		
1	MH-261 Base	Cum	1	41	1.4	0.075	4.31
2	MH-262 Base	Cum	1	49.9	1.4	0.075	5.24
3	MH-263	Cum	1	55.3		0.075	5.81
4	Base MH-615				1.4		
5	Base O-29	Cum	1	31.4	1.4	0.075	3.30
6	Base MH-578	Cum	1	27.2	1.4	0.075	2.86
7	Base	Cum	1	16.4	1.4	0.075	1.72
	MH-577 Base	Cum	1	19.7	1.4	0.075	2.07
8	MH-576 Base	Cum	1	31.8	1.4	0.075	3.34
9	MH-575 Base	Cum	1	33.2	1.4	0.075	3.49
10	O-68	Cum		31.3		0.075	3.29
11	Base MH-582		1 Side	2	1.4		
12	Base MH-583	Cum	2	36.3	1.3	0.075	7.08
13	Base MH-584	Cum	2	20.9	1.2	0.075	3.76
	Base	Cum	2	17.4	1.15	0.075	3.00
14	MH-585 Base	Cum	2	13.8	1.1	0.075	2.28
15	MH-586 Base	Cum	2	28.4	1.1	0.075	4.69
16	MH-587 Base	Cum	2			0.075	1.49
17	O-69						
18	Base MH-618	Cum	2	21.6	1.1	0.075	3.56
19	Base MH-619	Cum	2	12.9	1.3	0.075	2.52
20	Base MH-620	Cum	2	24	1.2	0.075	4.32
	Base	Cum	2	16.9	1.2	0.075	3.04
21	MH-621 Base	Cum	2	21.4	1.1	0.075	3.53
22	MH-622 Base	Cum	2	10.1	1.1	0.075	1.67
23	MH-623 Base		2		1.2	0.075	7.45
24	0-70	Cum					
25	Base MH-366	Cum	2	23.8	1.2	0.075	4.28
26	Base MH-258	Cum	1	24.8	1.7	0.075	3.16
	Base	Cum	1	52	1.7	0.075	6.63
27	MH-259 Base	Cum	1	28.1	1.7	0.075	3.58
28	MH-260 Base	Cum	1	101.5	1.7	0.075	12.94
	Road-24/6 Mangaladevi Temple Road		Side	2			
1	MH-223 to MH-224	C			4 70	0.075	24.00
2	Base MH-224 to MH-225	Cum	2	92.7	1.73	0.075	24.06
3	Base MH-225 to MH-226	Cum	2	56	1.73	0.075	14.53
4	Base MH-226 to MH-257	Cum	2	65.3	1.73	0.075	16.95
	Base	Cum	2	145.2	1.73	0.075	37.68
5	MH-207 to MH-208 Base	Cum	2	48	1.4	0.075	10.08
6	MH-208 to MH-209 Base	Cum	2	37.2	1.4	0.075	7.81
7	MH-209 to MH-210 Base	Cum	2	22.3	1.4	0.075	4.68
8	MH-210 to MH-211						
9	Base MH-211 to MH-212	Cum	2	71.7	1.4	0.075	15.06
10	Base MH-212 to MH-213	Cum	2	35.3	1.4	0.075	7.41
11	Base MH-213 to MH-214	Cum	2	85.6	1.4	0.075	17.98
	Base	Cum	2	55.1	1.4	0.075	11.57
12	MH-214 to MH-215 Base	Cum	2	64.3	1.4	0.075	13.50
13	MH-215 to MH-216 Base	Cum	2	101.3	1.4	0.075	21.27
14	MH-216 to MH-256	20.11		.01.0	1.1	3.070	= · · = /

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
15	Base MH-256 to O-62	Cum	2	36.8	1.5	0.075	8.28
	Base MH-218 to MH-219	Cum	2	40.5	1.43	0.075	8.69
	Base	Cum	2	50.7	1.13	0.075	8.59
	MH-219 to MH-220 Base	Cum	2	34.9	1.13	0.075	5.92
18	MH-220 to MH-221 Base	Cum	2	25.1	1.13	0.075	4.25
	MH-221 to MH-222 Base	Cum	2	85.8	1.13	0.075	14.54
		Cum				0.073	14.04
1	Road 25/7 Monkeystand New Road MH-564			Sides	1		
	Base MH-565	Cum	1	80.8	1.12	0.075	6.79
3	Base MH-566	Cum	1	17.9	1.12	0.075	1.50
	Base	Cum	1	43.3	1.1	0.075	3.57
	MH-567 Base	Cum	1	120.8	1.1	0.075	9.97
5	O-34 Base	Cum	1	9.7	1.1	0.075	0.80
6	MH-613 Base	Cum	1	72.9	1.2	0.075	6.56
7	MH-614 Base	Cum	1	40.1	1.12	0.075	3.37
8	MH-568						
	Base MH-309	Cum	1	49.2	1.12	0.075	4.13
	Base O-34	Cum	1	53.2	1.1	0.075	4.39
	MH-569	Cum	1	54.8	1.1	0.075	4.52
	Base	Cum	1	52.7	1.1	0.075	4.35
	MH-570 Base	Cum	1	36.1	1.1	0.075	2.98
13	MH-567 Base	Cum	1	17.1	1.1	0.075	1.41
	Road 26/8 Jeppu Market Road			Sides	2		
1	MH-229	Course	0			0.075	00.00
	Base MJ-230	Cum	2	121.2	1.3	0.075	23.63
3	Base MH-605	Cum	2	62.8	1.3	0.075	12.25
	Base O-66	Cum	2	136	1.1	0.075	22.44
5	Base MH-608	Cum	2	12.8	1.1	0.075	2.11
	Base	Cum	2	21.6	1.1	0.075	3.56
6	MH-609 Base	Cum	2	38.2	1.1	0.075	6.30
	Road 27/9 Gujjarkere Road			Sides	2		
	MH-234 to MH-235 Base	Cum	2	16.9	1.72	0.075	4.36
	MH-235 to MH-236						
	Base MH-236 to MH-237	Cum	2	29.4	1.72	0.075	7.59
	Base MH-237 to MH-238	Cum	2	70.4	1.7	0.075	17.95
5	Base MH-238 to MH-239	Cum	2	68.4	1.7	0.075	17.44
	MH-239 to MH-240	Cum	2	19.1	1.7	0.075	4.87
	Base	Cum	2	37.7	1.8	0.075	10.18
	MH-240 to MH-241 Base	Cum	2	21.3	1.72	0.075	5.50
8	MH-241 to MH-242 Base	Cum	2	25.9	1.72	0.075	6.68
9	MH-242 to MH-591 Base	Cum	2	31.2	1.7	0.075	7.96
10	MH-591 to MH-246 Base	Cum	2	48.3	1.7	0.075	12.32
11	MH-246 to MH-245						
12	Base MH-245 to O-65	Cum	2	31	1.7	0.075	7.91
13	Base MH-592 to MH-593	Cum	2	39.4	1.7	0.075	10.05
	Base MH-593 to MH-594	Cum	2	37.3	1.4	0.075	7.83
	Base	Cum	2	4.1	1.4	0.075	0.86
	MH-594 to MH-595 Base	Cum	2	58.3	1.4	0.075	12.24
	MH-595 to MH-596 Base	Cum	2	56.8	1.4	0.075	11.93

17 MH-596 to MH-597 Base Cum 2 3.1 18 MH-597 to MH-598 Cum 2 41.5 19 MH-598 to MH-599 Cum 2 42.3 20 MH-599 to MH-600 Cum 2 42.3 21 MH-600 to MH-601 Cum 2 43.3 21 MH-600 to MH-601 Cum 2 21.7 22 MH-601 to MH-602 Cum 2 62.1	1.4	0.075	0.65
Base Cum 2 41.5 19 MH-598 to MH-599		0.075	
19 MH-598 to MH-599 Base Cum 2 42.3 20 MH-599 to MH-600 Base Cum 2 43.3 21 MH-600 to MH-601 Base Cum 2 2.1.7 22 MH-601 to MH-602 Base Cum 2 2.1.7			8.72
20 MH-599 to MH-600 Base Cum 2 43.3 21 MH-600 to MH-601 Base Cum 2 21.7 22 MH-601 to MH-602 Base Cum 2 21.7	1.4		
21 MH-600 to MH-601 Base Cum 2 21.7 22 MH-601 to MH-602 Base Cum 2 62.1		0.075	8.88
Base Cum 2 21.7	1.4	0.075	9.09
Base Cum 2 62.1	1.4	0.075	4.56
1 44 1	1.4	0.075	13.04
23 MH-602 to MH-603 Cum 2 7.4	1.4	0.075	1.55
24 MH-603 to O-64 Base Cum 2 72.7	1.4	0.075	15.27
25 MH-229 to MH-230 Cum 2 62.8	1.4	0.075	13.19
26 MH-230 to MH-231			
Base Cum 2 20.1 27 MH-231 to MH-589	1.4	0.075	4.22
Base Cum 2 37.5 28 MH-589 to MH-232	1.4	0.075	7.88
Base Cum 2 57.6	1.4	0.075	12.10
Base Cum 2 29.2	1.4	0.075	6.13
30 MH-607 to MH-608 Base Cum 2 21.6	1.4	0.075	4.54
31 MH-608 to MH-609 Base Cum 2 38.2	1.4	0.075	8.02
32 MH-609 to MH-610 Cum 2 101.6	1.4	0.075	21.34
33 MH-610 to O-67			
Base Cum 2 41.6	1.4	0.075	8.74
	0.47 0.50	0.10 0.10	253.29 272.35
	0.00	0.10	272.00
Box Culvert 2/19-Old Kent Road			
Box Culvert-Slab Cum 8.0 12.2 3/20-Pandeshwar New Road	1.0	0.1	9.76
Box Culvert-Slab Cum 3.0 10.0	1.5	0.1	4.50
Box Culvert-Slab Cum 1.0 8.8	1.5	0.1	1.32
5/23-Mulihithlu Road Cum 8.0 11.4	1.5	0.1	13.68
6/24-Mangaladevi Temple Road Cum 9.0 27.5	1.5	0.1	37.13
7/25-Monkeystand New Road Cum 5.0 18.1 Box Culvert-Slab Cum 5.0 18.1	1.5	0.1	13.54
8/26-Jeppu Market Road			
Box Culvert-Slab Cum 3.0 13.1 9/27-Gujjarkere Road	1.5	0.1	5.90
Box Culvert-Slab Cum 7.0 8.3	1.5	0.1	8.72
Electrical Chamber Cum 297.00 2.90 Cum Total Qty.	2.00	0.10	172.26 1818.24
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)			
Pavement 2/19-Old Kent Road			
Ch.200.0 to Ch.260.0 Cum 1 60	6.53	0.15	58.77
	4.47 4.89	0.15 0.15	33.53 36.68
Ch.360.0 to Ch.410.0 Cum 1 50	6.53	0.15	48.98
Ch.470.0 to Ch.530.0 Cum 1 60	3.69 4.09	0.15 0.15	33.21 36.81
Ch.530.0 to Ch.580.0 Cum 1 50 Ch.580.0 to ch.630.0 Cum 1 50	4.4 6.23	0.15 0.15	33.00 46.73
Ch.630.0 to Ch.680.0 Cum 1 50	4.23	0.15	31.73
Ch.680.0 to Ch.720.0 Cum 1 40 5 Ch.720.0 to Ch.790.0 Cum 1 70	2.4	0.15 0.15	31.61 25.20
3/20-Pandeshwar New Road	4.15	0.15	12.45
Ch.20.0 to Ch.70.0 Cum 1 50	5.51	0.15	41.33
	5.02 5.83	0.15 0.15	37.65 52.47

Sr. No.	Description	Unit	No's	L	B	Н	Qty.
	Ch.180.0 to Ch.220.0 Ch.220.0 to Ch.280.0	Cum Cum	1	40 60	4.089 3.51	0.15 0.15	24.53 31.59
	Road No.4/22-Bolar Fisheries College Road	Ouiii		- 00	0.01	0.10	01.00
	Ch.0 to Ch.10.0	Cum	1	10	4.9	0.15	7.35
	Ch.10.0 to Ch.60.0 Ch.60.0 to Ch.110.0	Cum Cum	1	50 50	4.2 5.5	0.15 0.15	
	Ch.110.0 to Ch.155.0	Cum	1	45	5.38	0.15	
	Road No.5/23-Milihithuli Road	0		00	0.40	0.45	40.00
	Ch.0.0 to Ch.20.0 Ch.20.0 to Ch.70.0	Cum Cum	1	20 50	3.42 4.83	0.15 0.15	10.26 36.23
	Ch.70.0 to Ch.120.0	Cum	1	50	4.81	0.15	
	Ch.120.0 to ch.160.0	Cum	1	40	4.79	0.15	
	Ch.160.0 to Ch.210.0 Ch.210.0 to Ch.260.0	Cum Cum	1	50 50	5.3 3.27	0.15 0.15	
	Ch.260.0 to Ch.310.0	Cum	1	50	2.94	0.15	
	Ch.310.0 to Ch.360.0	Cum	1	50	4.43	0.15	
	Ch.360.0 to Ch.420.0 Ch.420.0 to Ch.470.0	Cum Cum	1	60 50	3.97 3.15	0.15 0.15	
	Ch.470.0 to Ch.520.0	Cum	1	50	3.13	0.15	
	Ch.520.0 to Ch.560.0	Cum	1	40	4.12	0.15	24.72
	Ch.560.0 to Ch.610.0	Cum	1	50	2.96	0.15	
	Ch.610.0 to Ch.670.0 Ch.670.0 to Ch.710.0	Cum Cum	1	60 40	6.2 4.72	0.15 0.15	
	Ch.710.0 to Ch.760.0	Cum	1	50	2.69	0.15	
	Road No.6/24-Mangaladevi Temple Road			-			E
	Ch.0.0 to Ch.30.0 Ch.30.0 to Ch.80.0	Cum Cum	1	30 50	12.1 12.1	0.15 0.15	54.45 90.75
	Ch.80.0 to Ch.130.0	Cum	1	50	12.1	0.15	
	Ch.130.0 to Ch.180.0	Cum	1	50	12.1	0.15	90.75
	Ch.180.0 to Ch.270.0 Ch.270.0 to Ch.310.0	Cum	1	90	12.1 12.1	0.15	
	Ch.310.0 to Ch.360.0	Cum Cum	1	40 50	14.6	0.15 0.15	
	Ch.360.0 to Ch.410.0	Cum	1	50	14.6	0.15	109.50
	Ch.410.0 to Ch.460.0	Cum	1	50	12.1	0.15	
	Ch.460.0 to Ch.510.0 Ch.510.0 to Ch.560.0	Cum Cum	1	50 50	12.1 12.1	0.15 0.15	
	Ch.560.0 to Ch.628.0	Cum	1	68	12.1	0.15	
	Road No.7/25-Monkeystand New Road	C	4	200	0.00	0.45	40.00
	Ch.0.0 to Ch.20.0 Ch.20.0 to Ch.70.0	Cum Cum	1	20 50	6.36 6.36	0.15 0.15	19.08 47.70
	Ch.70.0 to Ch.120.0	Cum	1	50	4.4	0.15	
	Ch.120.0 to Ch.170	Cum	1	50	5	0.15	
	Ch.170.0 to Ch.220.0 Ch.220.0 to Ch.270.0	Cum Cum	1	50 50	5.3 6.36	0.15 0.15	
	Ch.270.0 to Ch.310.0	Cum	1	40	5.3	0.15	
	Ch.310.0 to Ch.370.0	Cum	1	60	4.78	0.15	
	Ch.370.0 to Ch.420.0 Ch.420.0 to Ch.470.0	Cum Cum	1	50 50	5.3 3.63	0.15 0.15	
	Ch.470.0 to Ch.570.0	Cum	1				
	Road No.8/26-Jeppu Market Road						
	Ch.0.0 to Ch.50.0 Ch.50.0 to Ch.90.0	Cum Cum	1	50 40	9.87 9.3	0.15 0.15	
	Ch.90.0 to Ch.130.0	Cum	1	40	10.22	0.15	
	Ch.130.0 to Ch.225.0	Cum	1	95	8.22	0.15	117.14
	Road No.9/27-Gujjarkere Road Ch.0.0 to Ch.20.0	Cum	1	20	4.4	0.15	13.20
	Ch.20.0 to Ch.70.0	Cum	1	50	4.4	0.15	
	Ch.70.0 to Ch.110.0	Cum	1	60	4.4	0.15	39.60
	Ch.110.0 to Ch.170.0 Ch.170.0 to Ch.220.0	Cum Cum	1	60 50	5.3 8.32	0.15 0.15	
	Ch.220.0 to Ch.270.0	Cum	1	50	5.3	0.15	
	Ch.270.0 to Ch.320.0	Cum	1	50	4.4	0.15	33.00
	Ch.320.0 to Ch.370.0 Ch.370.0 to Ch.420.0	Cum Cum	1	50 50	4.4 4.4	0.15 0.15	
	Ch.420.0 to Ch.470.0	Cum	1		3.53	0.15	
	Ch.470.0 to Ch.520.0	Cum	1	50	3.88	0.15	29.10
	Ch.520.0 to Ch.570.0	Cum Cum	1	50	3.88	0.15	29.10 3567.48
		Juili		Total Qty.			JJ01.40
	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)						
	Footpath Road No.2/19-Old Kent Road						
	LHS						
	Ch.0.0 to Ch.150.0	Cum	1	150	3.76		
	Ch.165.0 to Ch.180.0 Ch.230.0 to Ch.440.0	Cum Cum	1	15 210	4.6 3.4	0.15 0.15	
	Ch.450.0 to Ch.530.0	Cum	1	80	1.98		
	Ch.540.0 to Ch.570.0	Cum	1	30	1.73	0.15	7.79
<u> </u>	Ch.580.0 to Ch.730.0	Cum	1	150	2.07	0.15	46.58
	RHS Ch.0.0 to Ch.130.0	Cum	1	130	2.78	0.15	54.21
	O11.0.0 to O11.100.0	Guill	<u> </u>	130	2.10	0.15	J4.Z

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.130.0 to Ch.740.0 Road No.3/20-Pandeshwar New Road	Cum	1	610	2.36	0.15	215.94
	RHS						
	Ch.0.0 to Ch.170.0	Cum	1	170	1.85	0.15	47.18
	Ch.175.0 to Ch.205.0	Cum	1	30	2.2	0.15	9.9
	Road No.4/22-Bolar Fisheries College Road LHS						
	Ch.0.0 to Ch.150.0	Cum	1	150	2.83	0.15	63.68
	RHS						
	Ch.105.0 to Ch.125.0	Cum	1	20	1.65	0.15	4.95
	Road No.5/23-Milihithuli Road LHS						
	Ch.135.0 to Ch.180.0	Cum	1	45	2.42	0.15	16.34
	Ch.190.0 to Ch.230.0	Cum	1	40	5.85	0.15	35.1
	Ch.320.0 to Ch.340.0	Cum	1	20	3.12	0.15	9.36
	Ch.355.0 to Ch.370.0	Cum	1	15	2.53	0.15	5.69
	Ch.380.0 to Ch.390.0 Ch.390.0 to Ch.420.0	Cum Cum	1	10 30	3.4 3.13	0.15 0.15	5.1 14.09
	Ch.560.0 to Ch.570.0	Cum	1	10	2.64	0.15	3.96
	Ch.580.0 to Ch.600.0	Cum	1	20	1.75	0.15	5.25
	Ch.630.0 to Ch.640.0	Cum	1	20	0.81	0.15	2.43
	RHS						
	Ch.190.0 to Ch.210.0 Ch.570.0 to Ch.590.0	Cum	1	20 20	4.25	0.15	12.75
	Ch.590.0 to ch.600.0	Cum Cum	1	10	1.88 1.34	0.15 0.15	5.64 2.01
	Road No.6/24-Mangaladevi Temple Road	Cuiii	'	10	1.0-	0.10	2.01
	LHS						
	Ch.0.0 to Ch.60.0	Cum	1	60	7.75	0.15	69.75
	Ch.70.0 to Ch.230.0	Cum	1	160	5.1	0.15	122.4
-	Ch.260.0 to ch.620.0 RHS	Cum	1	360	4.13	0.15	223.02
	Ch.0.0 to Ch.620.0	Cum	1	620	4.57	0.15	425.01
	Road No.7/25-Monkeystand New Road	Odin	·	020	1.07	0.10	120.01
	LHS						
	Ch.0.0 to Ch.25.0	Cum	1	25	2.68	0.15	10.05
	Ch.30.0 to Ch.100.0	Cum	1	70	1.85	0.15	19.43
	Ch.160.0 to Ch.180.0 Ch.270.0 to Ch.290.0	Cum Cum	1	20 20	3.03 2.88	0.15 0.15	9.09 8.64
	Ch.515.0 to Ch.550.0	Cum	1	35	2.28	0.15	11.97
	RHS	Odin	·			0.10	11.07
	Ch.0.0 to Ch.570.0	Cum	1	570	2.38	0.15	203.49
	Road No.8/26-Jeppu Market Road						
	LHS Ch.0.0 to Ch.195.0	Cum	1	195	2.47	0.15	72.25
	Ch.210.0 to Ch.220.0	Cum Cum	1	193	2.47	0.15	4.35
	RHS	Odin		10	2.0	0.10	7.00
	Ch.0.0 to Ch.200	Cum	1	200	4.05	0.15	121.5
	Ch.210.0 to Ch.220.0	Cum	1	10	2.2	0.15	3.3
	Road No.9/27-Gujjarkere Road						
	LHS Ch.0.00 to Ch.85.00	Cum	1	85	1.36	0.15	17.34
	Ch.95.0 to ch.115.0	Cum	1	20	4	0.15	12
	Ch.125.0 to Ch.560.0	Cum	1	435	4.11	0.15	268.18
	Ch.570.0 to Ch.576.0	Cum	1	6	3	0.15	2.7
	RHS	0		205	0.00	0.45	400.4
	Ch.35.0 to Ch.330.0 Ch.330.0 to Ch.576.0	Cum Cum	1	295 246	2.33 1.85	0.15 0.15	103.1 68.27
	G1.550.0 to G1.570.0	Cuiii		240	1.00	0.13	00.21
	Flush Footpath with Carriageway						
	Road No.2/19-Old Kent Road						-
	LHS Ch 190 0 to Ch 220 0	0		50	4.00	0.45	40.05
	Ch.180.0 to Ch.230.0 Ch.460.0 to Ch.480.0	Cum Cum	1	50 20	1.38 1.31	0.15 0.15	10.35 3.93
	Ch.690.0 to Ch.710.0	Cum	1	20	2.2	0.15	6.60
	Ch.730.0 to Ch.770.0	Cum	1	40	1.2	0.15	7.20
	Ch.770.0 to Ch.790.0	Cum	1	20	2.58	0.15	7.74
	RHS						
	Ch.60.0 to Ch.70.0 Ch.75.0 to Ch.80.0	Cum Cum	1	10	2.72 4.5	0.15 0.15	4.08 3.38
	Ch.195.0 to Ch.201.0 Ch.195.0 to Ch.213.0	Cum	1	5 18	0.91	0.15	2.46
	Ch.740.0 to Ch.780.0	Cum	1	40	0.78	0.15	4.68
	Road No.3/20-Pandeshwar New Road						
	RHS						
	Ch.10.0 to Ch.55.0	Cum	1	45	1.1	0.15	7.43
	Ch.100.0 to Ch.170.0 Ch.170.0 to Ch.225.0	Cum Cum	1	70 55	1.31 0.83	0.15 0.15	13.76 6.85
	Ch.225.0 to Ch.290.0	Cum	1	65	0.63	0.15	2.93
	LHS				5.0	3.10	
	Ch.150.0 to Ch.220.0	Cum	1	70	0.52	0.15	5.46
	Road No.4/22-Bolar Fisheries College Road						
	RHS	C		00	0.40	0.45	0.01
	Ch.0.0 to ch.30.0 Ch.50.0 to Ch.105.0	Cum Cum	1	30 55	0.49 0.66	0.15 0.15	2.21 5.45
	Ch.128.0 to Ch.150.0	Cum	1	22	0.66	0.15	2.41
	Road No.5/23-Milihithuli Road				5.10	5.10	
	LHS						
	Ch.0.0 to Ch.20.0	Cum	1	20	2.25	0.15	6.75

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.48.0 to Ch.52 Ch.118.0 to Ch.124.0	Cum Cum	1	<u>4</u>	3.5 8.5	0.15 0.15	2.10
	Ch. 116.0 to Ch. 124.0 Ch. 134.0 to Ch. 180.0	Cum	1	46	1.28	0.15	7.65 8.83
	Ch.212.0 to Ch.250.0	Cum	1	38	1.55	0.15	8.84
	Ch.318.0 to Ch.345.0	Cum	1	27	1.44	0.15	5.83
	Ch.355.0 to Ch.368.0 Ch.375.0 to Ch.400.0	Cum Cum	1	13 25	3.4 1.84	0.15 0.15	6.63 6.90
	Ch.400.0 to Ch.420.0	Cum	1	20	2.85	0.15	8.55
	Ch.472.0 to Ch.480.0	Cum	1	8	1.38	0.15	1.66
	Ch.485.0 to Ch.495.0	Cum	1	10	1.9	0.15	2.85
	Ch.535.0 to Ch.570.0	Cum	1	35	0.63	0.15	3.31
	Ch.580.0 to Ch.590.0 Ch.590.0 to Ch.595.0	Cum Cum	1	10 5	3.3 1.33	0.15 0.15	4.95 1.00
	Ch.595.0 to Ch.605.0	Cum	1	10	0.72	0.15	1.00
	Ch.610.0 to Ch.645.0	Cum	1	35	1.02	0.15	5.36
	Ch.645.0 to Ch.670.0	Cum	1	25	2.38	0.15	8.93
	Ch.675.0 to Ch.740.0	Cum	1	65	0.83	0.15	8.09
	RHS Ch.0.0 to Ch.70.00	Cum	1	70	2.02	0.15	21.21
	Ch.70.0 to ch.115.0	Cum	1	45	2.64	0.15	17.82
	Ch.115.0 to ch.135.0	Cum	1	20	4.63	0.15	13.89
	Ch.180.0 to Ch.190.0	Cum	1	10	1.5	0.15	2.25
	Ch.235.0 to Ch.240.0	Cum	1	5	3.5	0.15	2.63
	Ch.245.0 to ch.300.0 Ch.300.00 to Ch.320.0	Cum Cum	1	55 20	1.85 3.3	0.15 0.15	15.26 9.90
	Ch.340.0 to Ch.358.0	Cum	1	18	3.56	0.15	9.90
	Ch.378.0 to ch.380.0	Cum	1	2	1.5	0.15	0.45
	Ch.420.0 to ch. 440.0	Cum	1	20	3.1	0.15	9.30
	Ch.460.0 to Ch.474.0	Cum	1	14	0.64	0.15	1.34
	Ch.474.0 to Ch.528.0 Ch.528.0 to Ch.550.0	Cum Cum	1	54 22	1.87 0.52	0.15 0.15	15.15 1.72
	Ch.605.0 to Ch.630.0	Cum	1	25	0.32	0.15	2.89
	Ch.640.0 to Ch.660.0	Cum	1	20	0.6	0.15	1.80
	Ch.670.0 to ch.740.0	Cum	1	70	1.67	0.15	17.54
	Ch.758.0 to Ch.762.0	Cum	1	4	1.08	0.15	0.65
	Road No.7/25-Monkeystand New Road LHS						
	Ch.28.0 to Ch.30.0	Cum	1	2	3	0.15	0.90
	Ch.100.0 to Ch.160.0	Cum	1	60	0.73	0.15	6.57
	Ch.195.0 to Ch.230.0	Cum	1	35	0.46	0.15	2.42
	Ch.250.0 to Ch.270.0	Cum	1	20	1.8	0.15	5.40
	Ch.290.0 to Ch.295.0 Ch.295.0 to Ch.318.0	Cum Cum	1	5 23	1.4 1.04	0.15 0.15	1.05 3.59
	Ch.325.0 to Ch.355.0	Cum	1	30	0.83	0.15	3.74
	Ch.395.0 to Ch.440.0	Cum	1	45	1	0.15	6.75
	Ch.458.0 to Ch.470.0	Cum	1	12	0.5	0.15	0.90
	Ch. 470.0 to Ch. 508.0	Cum	1	38 20	0.74	0.15	4.22
	Ch.530.0 to Ch.550.0 RHS	Cum	0			0.15	6.15
	Ch.358.0 to Ch.410.0	Cum	1	52	1.24	0.15	9.67
	Ch.445.0 to Ch.475.0	Cum	1	30	1.07	0.15	4.82
	Road No.8/26-Jeppu Market Road						
	LHS Ch.198.0 to Ch.212.0	Cum	1	1.1	1 12	0.15	2.00
	RHS	Cum	1	14	1.43	0.15	3.00
	Ch.190.0 to Ch.212.0	Cum	1	22	0.73	0.15	2.41
	Road No.9/27-Gujjarkere Road						
	LHS						
	Ch.88.0 to Ch.98.0 Ch.565.0 to Ch.576.0	Cum	1	10 11	0.9 0.91	0.15	1.35
	Cn.565.0 to Cn.576.0	Cum	1	11	0.91	0.15	1.50
	Ch.25.0 to Ch.35.0	Cum	1	10	1	0.15	1.50
	Parking Area						
	2/19 - Old Kent Road	0				2.15	04.00
-	Ch.30.0 to Ch.90.00 6/24 - Mangaladevi Temple Road	Sqm	1	60	2.4	0.15	21.60
	Ch.320.0 to CH.440.0	Sqm	1	120	2.47	0.15	44.46
	9/27 - Gujjarkere Road			.20			
	Ch.140.0 to Ch.200.0	Sqm	1	60	2.81	0.15	25.29
<u> </u>	Ch.240.0 to Ch.275.0	Sqm	1	35	2.67	0.15	14.02
1							
	Box Culvert						
	2/19-Old Kent Road						
	Box Culvert-Slab	Cum	8.0	12.2	1.0	0.15	14.64
1	3/20-Pandeshwar New Road	C	2.0	40.0	4.5	0.45	6 7F
	Box Culvert-Slab 4/22-Bolar Fisheries College Road	Cum	3.0	10.0	1.5	0.15	6.75
	Box Culvert-Slab	Cum	1.0	8.8	1.5	0.15	1.98
	5/23-Mulihithlu Road						
	Box Culvert-Slab	Cum	8.0	11.4	1.5	0.15	20.52
<u> </u>	6/24-Mangaladevi Temple Road	C	0.0	07.5	4.5	0.45	EE 60
	Box Culvert-Slab 7/25-Monkeystand New Road	Cum	9.0	27.5	1.5	0.15	55.69
	Box Culvert-Slab	Cum	5.0	18.1	1.5	0.15	20.31
	8/26-Jeppu Market Road						
	Box Culvert-Slab	Cum	3.0	13.1	1.5	0.15	8.84

Sr. No.	Description 9/27-Gujjarkere Road	Unit	No's	L	В	Н	Qty.
	Box Culvert-Slab	Cum	7.0	8.3	1.5	0.15	13.07
	Electrical Chamber	Cum	297.0	2.9	2.0	0.15	258.39
	and the state of t	Cum		Total Qty.			3480.74
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 19/1 Old Kent Road			Sides	2.00		
1	MH-542 to MH 543 Base	Cum	2	50.4	1.1	0.10	11.00
	Wall	Cum	4	50.4	0.15	1.21	11.09 36.59
	Slab	Cum	2	50.4	0.9	0.15	13.61
2	MH-543 to MH 544			40.1		0.10	0.00
	Base Wall	Cum Cum	2 4	13.1 13.1	1.1 0.15	0.10 1.21	2.88 9.51
	Slab	Cum	2	13.1	0.13	0.15	3.54
3	MH-544 to MH 545						
	Base Wall	Cum Cum	<u>2</u>	49.4 49.4	1.1 0.15	0.10 1.39	10.87 41.05
	Slab	Cum	2	49.4	0.13	0.15	13.34
4	MH-545 to MH 296						
	Base Wall	Cum	2	118.7 118.7	1.1	0.10	26.11 100.78
	vvaii Slab	Cum Cum	2	118.7	0.15 0.9	1.42 0.15	32.05
5	MH-296 to MH 297		_		0.0	0	
	Base	Cum	2	21.1	1.1	0.10	4.64
	Wall Slab	Cum Cum	2	21.1 21.1	0.15 0.9	1.29 0.15	16.27 5.70
6	MH-297 to MH 298	Cuiii		21.1	0.3	0.10	5.70
	Base	Cum	2	19.2	1.1	0.10	4.22
	Wall Slab	Cum Cum	2	19.2 19.2	0.15 0.9	1.30 0.15	14.98 5.18
7	MH-298 to MH 299	Cuiii		19.2	0.9	0.13	5.10
	Base	Cum	2	18.8	1.1	0.10	4.14
	Wall Slab	Cum Cum	2	18.8 18.8	0.15 0.9	1.29 0.15	14.55 5.08
8	MH-299 to MH 300	Cuiii		10.0	0.9	0.13	3.00
	Base	Cum	2	12.9	1.1	0.10	2.84
	Wall Slab	Cum Cum	2	12.9 12.9	0.15 0.9	1.28 0.15	9.87 3.48
9	MH-300 to MH 301	Cuiii		12.3	0.3	0.10	3.40
	Base	Cum	2	43.7	1.1	0.10	9.61
	Wall Slab	Cum Cum	2	43.7 43.7	0.15 0.9	1.31 0.15	34.22
10	MH-301 to MH 302	Culli		43.7	0.9	0.15	11.80
	Base	Cum	2	27.9	1.1	0.10	6.14
	Wall	Cum Cum	2	27.9 27.9	0.15 0.9	1.30 0.15	21.76
11	Slab MH-302 to MH 303	Guill		21.9	0.9	0.15	7.53
	Base	Cum	2	18.8	1.1	0.10	4.14
	Wall Slab	Cum Cum	2	18.8 18.8	0.15 0.9	1.24 0.15	13.93 5.08
12	MH-303 to MH 304	Guill		10.0	0.9	0.13	3.00
	Base	Cum	2	35.3	1.1	0.10	7.77
	Wall Slab	Cum Cum	2	35.3 35.3	0.15 0.9	1.26 0.15	26.69 9.53
13	MH-304 to MH305	Cuiii		33.3	0.3	0.10	9.55
	Base	Cum	2	32	1.1	0.10	7.04
	Wall Slab	Cum Cum	2	32 32	0.15 0.9	1.31 0.15	25.15 8.64
14	MH-305 to MH306	Juili		52	0.9	0.13	J.U -1
	Base	Cum	2	59.9	1.1	0.10	13.18
	Wall Slab	Cum Cum	2	59.9 59.9	0.15 0.9	1.30 0.15	46.72 16.17
15	MH-306 to O-33	Juili		55.5	0.3	0.10	10.17
	Base	Cum	2	48	1.1	0.10	10.56
	Wall Slab	Cum Cum	2	48 48	0.15 0.9	1.29 0.15	37.15 12.96
16	MH-546 to MH-547	Cuiii		48	0.9	0.15	12.90
-	Base	Cum	2	21.5	1.4	0.10	6.02
	Wall	Cum	4	21.5	0.15	1.22	15.67
17	Slab MH-547 to MH-549	Cum	2	21.5	1.2	0.15	7.74
	Base	Cum	2	55.8	1.4	0.10	15.62
	Wall	Cum	4	55.8	0.15	1.32	44.19

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
18	Slab	Cum	2	55.8	1.2	0.15	20.09
18	MH-549 to MH-548 Base	Cum	2	42.7	1.4	0.10	11.96
	Wall	Cum	4	42.7	0.15	1.42	36.38
19	Slab MH-548 to MH-531	Cum	2	42.7	1.2	0.15	15.37
19	Base	Cum	2	66.9	1.4	0.10	18.73
	Wall	Cum	4	66.9	0.15	1.43	57.40
20	Slab MH-531 to MH-532	Cum	2	66.9	1.2	0.15	24.08
20	Base	Cum	2	41.6	1.45	0.10	12.06
	Wall	Cum	4	41.6	0.175	1.74	50.52
21	Slab MH-532 to MH-533	Cum	2	41.6	1.25	0.15	15.60
	Base	Cum	2	25.7	1.45	0.10	7.45
	Wall Slab	Cum Cum	4 2	25.7 25.7	0.175 1.25	1.71 0.15	30.67 9.64
22	MH-533 to MH-534	Cuiii		25.1	1.20	0.13	9.04
	Base	Cum	2	36.6	1.45	0.10	10.61
	Wall Slab	Cum Cum	2	36.6 36.6	0.175 1.25	1.59 0.15	40.61 13.73
23	MH-534 to MH-535	Cuiii		30.0	1.20	0.13	13.73
	Base	Cum	2	50	1.45	0.10	14.50
	Wall Slab	Cum Cum	2	50 50	0.175 1.25	1.57 0.15	54.95 18.75
24	MH-535 to MH-536	Juili		30	1.20	0.13	10.70
	Base	Cum	2	22.2	1.45	0.10	6.44
	Wall Slab	Cum Cum	4 2	22.2 22.2	0.175 1.25	1.53 0.15	23.70 8.33
25	MH-536 to MH-537	Cum	_				
	Base	Cum	2	29.7	1.45	0.10	8.61
	Wall Slab	Cum Cum	2	29.7 29.7	0.175 1.25	1.65 0.15	34.30 11.14
26	MH-537 to MH-538						
	Base Wall	Cum Cum	2	36.2 36.2	1.4 0.15	0.10 1.53	10.14 33.23
	Slab	Cum	2	36.2	1.2	0.15	13.03
27	MH-538 to MH-539						
	Base Wall	Cum Cum	2	51.6 51.6	1.4 0.15	0.10 1.54	14.45 47.52
	Slab	Cum	2	51.6	1.2	0.15	18.58
28	MH-539 to MH-540						
	Base Wall	Cum Cum	2	9.5 9.5	1.4 0.15	0.10 1.51	2.66 8.61
	Slab	Cum	2	9.5	1.2	0.15	3.42
29	MH-540 to O-59						
	Base Wall	Cum Cum	2	45.3 45.3	1.4 0.15	0.10 1.51	12.68 41.04
	Slab	Cum	2	45.3	1.2	0.15	16.31
	Dec 100/0 Dec 1-1-1 New Dec 1			Sides	1.00		
1	Road 20/3 Pandeshwar New Road Node-O-61			Sides	1.00		
	Base	Cum	1		1.25	0.10	14.10
	Wall Slab	Cum Cum	2	112.8 112.8	0.15 1.05	1.36 0.15	45.85 17.77
2	MH-528	Cuiii	ı	112.0	1.03	0.13	17.77
	Base	Cum	1		1.1	0.10	1.90
	Wall Slab	Cum Cum	2	17.3 17.3	0.15 0.9	1.26 0.15	6.51 2.34
3	Node-O-58	Cum	'	17.5	0.3	0.13	2.04
	Base	Cum	1	88.8	1.1	0.10	9.77
	Wall Slab	Cum Cum	2	88.8 88.8	0.15 0.9	1.23 0.15	32.63 11.99
4	MH-527			00.0		00	
	Base	Cum	1	44.9	1.1	0.10	4.94
	Wall Slab	Cum Cum	2	44.9 44.9	0.15 0.9	1.28 0.15	17.17 6.06
1	Road 22/4 Bolar Fisheries College Road MH-377 to O-39			Sides	1.00		
- 1	Base	Cum	1	114.8	1.1	0.10	12.63
	Wall	Cum	2	114.8	0.15	1.33	45.63
	Slab	Cum	1	114.8	0.9	0.15	15.50
	Road-23/5 Milihithulu Road			Sides	1.00		
1	MH-261	-				-	
	Base Wall	Cum Cum	1 2	41 41	1.4 0.15	0.10 1.32	5.74 16.24
	Slab	Cum	1		1.2	0.15	7.38
2	MH-262	-					
	Base Wall	Cum Cum	1 2	49.9 49.9	1.4 0.15	0.10 1.28	6.99 19.09
	Slab	Cum	1	49.9	1.2	0.15	8.98
3	MH-263						
	Base Wall	Cum Cum	1 2	55.3 55.3	1.4 0.15	0.10 1.23	7.74 20.32
	Slab	Cum	1	55.3	1.2	0.15	9.95

Base	Sr. No.	Description	Unit	No's	L	В	Н	Qty.
World Cum	4	MH-615	Cum	1	31 /	1.4	0.10	4.40
Sibb Cum								
Rate			Cum	1	31.4	1.2	0.15	5.65
Wall	5		Cum	1	27.2	1.4	0.10	2 91
Sabe								
Base		Slab						
Wall	6		Cum	1	16.4	1.4	0.10	2.20
Sign								
Base		Slab						
Wall Cum	7		Cum	4	10.7	1.4	0.10	0.70
Slab								7.36
Base		Slab						3.55
Wall	8		0	4	04.0	4.4	0.40	4.45
Slab								
Base Cum								
Wall Cum	9		_					
Slab								
10 0-88						1.2		5.98
Wall Cum	10	O-68						
Sisb								
MH-982								
Base	11	MH-582		Side	2			
Slab								
Text								
Base	12		Cuiii		30.3	1.1	0.10	11.30
Slab		Base						
13 MH-584 Cum						0.2		
Base	13		Cuili		20.9		0.13	0.21
Slab		Base						
14 MH-585 Cum 2 13.8 1.1 0.10 3.04 Wall								
Base	14		Cum		17.4	0.95	0.15	4.96
Slab		Base						
15 MH-586 Cum								
Base	15		Cum	2	13.8	0.9	0.15	3.73
Slab		Base						
Base								
Base	16		Cum	2	28.4	0.9	0.15	7.67
Slab	-10		Cum	2	9	1.1	0.10	1.98
17 0-69								
Base	17		Cum	2	9	0.9	0.15	2.43
Slab Cum 2 21.6 0.9 0.15 5.83	- 17		Cum	2	21.6	1.1	0.10	4.75
18 MH-618 Cum 2 12.9 1.3 0.10 3.35 Wall								
Base Cum 2 12.9 1.3 0.10 3.35	10		Cum	2	21.6	0.9	0.15	5.83
Wall Cum 4 12.9 0.25 2.20 28.38 Slab Cum 2 12.9 1.1 0.15 4.26 Base Cum 2 24 1.2 0.10 5.76 Wall Cum 4 24 0.2 2.00 38.40 Siab Cum 2 24 1 0.15 7.20 20 MH-620 Image: Common France Imag	10		Cum	2	12.9	1.3	0.10	3.35
19 MH-619		Wall		4		0.25		28.38
Base	40		Cum	2	12.9	1.1	0.15	4.26
Wall Cum 4 24 0.2 2.00 38.40 Slab Cum 2 24 1 0.15 7.20 Base Cum 2 16.9 1.2 0.10 4.06 Wall Cum 4 16.9 0.2 1.76 23.80 Slab Cum 2 16.9 1 0.15 5.07 21 MH-621 Cum 2 21.4 1.1 0.10 4.71 Base Cum 2 21.4 1.1 0.10 4.71 Wall Cum 2 21.4 0.9 0.15 5.78 22 MH-622 Cum 2 21.4 0.9 0.15 5.78 23 MH-623 Cum 4 10.1 0.1 0.15 1.31 7.91 Wall Cum 2 41.4 1.2 0.10 9.94 Wall Cum 4 41.4 1.2	19		Cum	2	24	1.2	0.10	5.76
Base Cum 2 16.9 1.2 0.10 4.06		Wall	Cum	4	24	0.2	2.00	38.40
Base	200		Cum	2	24	1	0.15	7.20
Wall Cum 4 16.9 0.2 1.76 23.80 Slab Cum 2 16.9 1 0.15 5.07 21 MH-621			Cum	2	16.9	1 2	0.10	4 06
21 MH-621 Base Cum 2 21.4 1.1 0.10 4.71		Wall	Cum	4	16.9	0.2	1.76	23.80
Base	0.1		Cum	2	16.9	1	0.15	5.07
Wall Cum 4 21.4 0.15 1.31 16.76 Slab Cum 2 21.4 0.9 0.15 5.78 22 MH-622 Total 1.1 0.10 2.22 Wall Cum 2 10.1 1.1 0.10 2.22 Wall Cum 4 10.1 0.15 1.31 7.91 Slab Cum 2 10.1 0.9 0.15 2.73 Base Cum 2 41.4 1.2 0.10 9.94 Wall Cum 4 41.4 0.2 1.60 52.83 Slab Cum 2 41.4 1 0.15 12.42 24 0-70 Cum 2 23.8 1.2 0.10 5.71 Wall Cum 2 23.8 1.2 0.10 5.71 Wall Cum 4 23.8 0.2 1.81 34.46 Slab Cum 2 23.8 1 0.15 7.14 25 MH-366 Cum 1 24.8 1.7 0.10 4.22	21		Cum	2	21.4	1 1	0.10	4 71
Slab Cum 2 21.4 0.9 0.15 5.78 22 MH-622 Cum 2 10.1 1.1 0.10 2.22 Wall Cum 4 10.1 0.15 1.31 7.91 Slab Cum 2 10.1 0.9 0.15 2.73 Base Cum 2 41.4 1.2 0.10 9.94 Wall Cum 4 41.4 0.2 1.60 52.83 Slab Cum 2 41.4 1 0.15 12.42 24 O-70 Cum 2 23.8 1.2 0.10 5.71 Wall Cum 4 23.8 0.2 1.81 34.46 Slab Cum 2 23.8 1 0.15 7.14 25 MH-366 Cum 1 24.8 1.7 0.10 4.22				4				
Base Cum 2 10.1 1.1 0.10 2.22			Cum	2	21.4	0.9	0.15	
Wall Cum 4 10.1 0.15 1.31 7.91 Slab Cum 2 10.1 0.9 0.15 2.73 23 MH-623 Base Cum 2 41.4 1.2 0.10 9.94 Wall Cum 4 41.4 0.2 1.60 52.83 Slab Cum 2 41.4 1 0.15 12.42 24 0-70 Cum 2 23.8 1.2 0.10 5.71 Wall Cum 2 23.8 1.2 0.10 5.71 Wall Cum 4 23.8 0.2 1.81 34.46 Slab Cum 2 23.8 1 0.15 7.14 25 MH-366 Base Cum 1 24.8 1.7 0.10 4.22	22		Cum	2	10.1	1 1	0.10	2 22
Slab Cum 2 10.1 0.9 0.15 2.73 23 MH-623 Cum 2 41.4 1.2 0.10 9.94 Wall Cum 4 41.4 0.2 1.60 52.83 Slab Cum 2 41.4 1 0.15 12.42 24 O-70 Cum 2 23.8 1.2 0.10 5.71 Wall Cum 4 23.8 0.2 1.81 34.46 Slab Cum 2 23.8 1 0.15 7.14 25 MH-366 Cum 1 24.8 1.7 0.10 4.22								
Base Cum 2 41.4 1.2 0.10 9.94 Wall Cum 4 41.4 0.2 1.60 52.83 Slab Cum 2 41.4 1 0.15 12.42 24 O-70 Cum 2 23.8 1.2 0.10 5.71 Wall Cum 4 23.8 0.2 1.81 34.46 Slab Cum 2 23.8 1 0.15 7.14 25 MH-366 Cum 1 24.8 1.7 0.10 4.22 Base Cum 1 24.8 1.7 0.10 4.22		Slab						
Wall Cum 4 41.4 0.2 1.60 52.83 Slab Cum 2 41.4 1 0.15 12.42 24 O-70 Cum 2 23.8 1.2 0.10 5.71 Wall Cum 4 23.8 0.2 1.81 34.46 Slab Cum 2 23.8 1 0.15 7.14 25 MH-366 Cum 1 24.8 1.7 0.10 4.22 Base Cum 1 24.8 1.7 0.10 4.22	23		Cum	2	A1 A	1 2	0.10	0.04
Slab Cum 2 41.4 1 0.15 12.42 24 O-70 Cum 2 23.8 1.2 0.10 5.71 Wall Cum 4 23.8 0.2 1.81 34.46 Slab Cum 2 23.8 1 0.15 7.14 25 MH-366 Cum 1 24.8 1.7 0.10 4.22 Base Cum 1 24.8 1.7 0.10 4.22								
Base Cum 2 23.8 1.2 0.10 5.71 Wall Cum 4 23.8 0.2 1.81 34.46 Slab Cum 2 23.8 1 0.15 7.14 25 MH-366 Cum 1 24.8 1.7 0.10 4.22 Base Cum 1 24.8 1.7 0.10 4.22		Slab						
Wall Cum 4 23.8 0.2 1.81 34.46 Slab Cum 2 23.8 1 0.15 7.14 25 MH-366 Cum 1 24.8 1.7 0.10 4.22 Base Cum 1 24.8 1.7 0.10 4.22	24		Cum		22.0	1.0	0.40	E 74
Slab Cum 2 23.8 1 0.15 7.14 25 MH-366 Base Cum 1 24.8 1.7 0.10 4.22								
Base Cum 1 24.8 1.7 0.10 4.22								
	25		0		21.6		2.12	4.00
1 1000 1 21 24 21 11 11 1 1 1 1 1 1 1 1 1 1 1		Wall	Cum	1 2	24.8 24.8	0.15	0.10 1.88	4.22 13.95

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
26	Slab MH-258	Cum	1	24.8	1.5	0.15	5.58
1	Base	Cum	1	52	1.7	0.10	8.84
	Wall	Cum	2	52	0.15	1.73	26.99
27	Slab MH-259	Cum	1	52	1.5	0.15	11.70
	Base	Cum	1	28.1	1.7	0.10	4.78
	Wall	Cum	2	28.1	0.15	1.79	15.09
	Slab	Cum	1	28.1	1.5	0.15	6.32
28	MH-260 Base	Cum	1	101.5	1.7	0.10	17.26
	Wall	Cum	2	101.5	0.15	1.67	50.85
	Slab	Cum	1	101.5	1.5	0.15	22.84
	Road-24/6 Mangaladevi Temple Road		Side	2			
1	MH-223 to MH-224		Side				
	Base	Cum	2	92.7	1.73	0.10	32.07
	Wall Slab	Cum Cum	2	92.7 92.7	0.165 1.53	1.52 0.15	93.00 42.55
2	MH-224 to MH-225	Cum		92.1	1.55	0.15	42.00
	Base	Cum	2	56	1.73	0.10	19.38
	Wall	Cum	4	56	0.165	1.53	56.36
3	Slab MH-225 to MH-226	Cum	2	56	1.53	0.15	25.70
3	Base	Cum	2	65.3	1.73	0.10	22.59
_	Wall	Cum	4	65.3	0.165	1.52	65.29
4	Slab MH-226 to MH-257	Cum	2	65.3	1.53	0.15	29.97
4	MH-226 to MH-25/ Base	Cum	2	145.2	1.73	0.10	50.24
	Wall	Cum	4	145.2	0.165	1.58	151.41
	Slab	Cum	2	145.2	1.53	0.15	66.65
5	MH-207 to MH-208 Base	Cum	2	48	1.4	0.10	13.44
	Wall	Cum	4	48	0.15	1.26	36.29
	Slab	Cum	2	48	1.2	0.15	17.28
6	MH-208 to MH-209 Base	Cum	2	27.0	1.1	0.10	10.42
	Wall	Cum Cum	2	37.2 37.2	1.4 0.15	0.10 1.26	28.12
	Slab	Cum	2	37.2	1.2	0.15	13.39
7	MH-209 to MH-210	0		00.0	4.4	0.40	2.24
	Base Wall	Cum Cum	2	22.3 22.3	1.4 0.15	0.10 1.27	6.24 16.99
	Slab	Cum	2	22.3	1.2	0.15	8.03
8	MH-210 to MH-211						
	Base Wall	Cum Cum	2	71.7 71.7	1.4 0.15	0.10 1.25	20.08 53.56
	Slab	Cum	2	71.7	1.2	0.15	25.81
9	MH-211 to MH-212						
	Base Wall	Cum	4	35.3	1.4 0.15	0.10 1.23	9.88
	Slab	Cum Cum	2	35.3 35.3	1.2	0.15	26.05 12.71
10	MH-212 to MH-213	-					
	Base	Cum	2	85.6	1.4	0.10	23.97
	Wall Slab	Cum Cum	2	85.6 85.6	0.15 1.2	1.25 0.15	63.94 30.82
	MH-213 to MH-214	Ouiii		00.0	1.2	0.10	30.02
	Base	Cum	2	55.1	1.4	0.10	15.43
	Wall Slob	Cum	4	55.1	0.15	1.24	40.99
12	Slab MH-214 to MH-215	Cum	2	55.1	1.2	0.15	19.84
	Base	Cum	2	64.3	1.4	0.10	18.00
	Wall	Cum	4	64.3	0.15	1.25	48.23
	Slab MH-215 to MH-216	Cum	2	64.3	1.2	0.15	23.15
	Base	Cum	2	101.3	1.4	0.10	28.36
	Wall	Cum	4	101.3	0.15	1.26	76.58
14	Slab MH-216 to MH-256	Cum	2	101.3	1.2	0.15	36.47
14	MH-216 to MH-256 Base	Cum	2	36.8	1.5	0.10	11.04
	Wall	Cum	4	36.8	0.2	1.84	54.02
45	Slab	Cum	2	36.8	1.3	0.15	14.35
15	MH-256 to O-62 Base	Cum	2	40.5	1.43	0.10	11.58
	Wall	Cum	4	40.5	0.165	1.65	44.10
	Slab	Cum	2	40.5	1.23	0.15	14.94
16	MH-218 to MH-219 Base	Cum	2	50.7	1.13	0.10	11.46
	Wall	Cum	4	50.7	0.165	1.61	53.71
	Slab	Cum	2	50.7	0.93	0.15	14.15
17	MH-219 to MH-220	0	<u> </u>	04.0	4.40	0.40	7.00
	Base	Cum	2	34.9	1.13	0.10 1.55	7.89 35.59
		Cum	4	34 9	U. Inai	Laat	
	Wall Slab	Cum Cum	2	34.9 34.9	0.165 0.93	0.15	9.74
	Wall Slab MH-220 to MH-221	Cum	2	34.9	0.93	0.15	9.74
18	Wall Slab						

Sr. No.	Description MH-221 to MH-222	Unit	No's	L	В	Н	Qty.
19	MH-221 to MH-222 Base	Cum	2	85.8	1.13	0.10	19.39
	Wall	Cum	4	85.8	0.165	1.54	87.21
	Slab	Cum	2	85.8	0.93	0.15	23.94
				0:1	4.00		
	Road 25/7 Monkeystand New Road MH-564			Sides	1.00		
	Base	Cum	1	80.8	1.12	0.10	9.05
	Wall	Cum	2	80.8	0.16	1.60	41.24
	Slab	Cum	1	80.8	0.92	0.15	11.15
	MH-565						
	Base Wall	Cum Cum	1	17.9 17.9	1.12	0.10 1.59	2.00
	Viali Slab	Cum	2	17.9	0.16 0.92	0.15	9.08 2.47
	MH-566	Oum		17.0	0.02	0.10	2.71
	Base	Cum	1	43.3	1.1	0.10	4.76
	Wall	Cum	2	43.3	0.15	1.41	18.25
	Slab	Cum	1	43.3	0.9	0.15	5.85
	MH-567 Base	Cum	1	120.8	1.1	0.10	13.29
	Wall	Cum	2	120.8	0.15	1.23	44.58
	Slab	Cum	1	120.8	0.9	0.15	16.31
	0-34						
	Base	Cum	1	9.7	1.1	0.10	1.07
	Wall	Cum	2	9.7	0.15	1.23	3.56
	Slab MH-613	Cum	1	9.7	0.9	0.15	1.31
	Base	Cum	1	72.9	1.2	0.10	8.75
	Wall	Cum	2	72.9	0.2	1.84	53.65
	Slab	Cum	1	72.9	1	0.15	10.94
	MH-614						
	Base	Cum	1		1.12	0.10	4.49
	Wall Slab	Cum Cum	2	40.1 40.1	0.16 0.92	1.52 0.15	19.50 5.53
8	MH-568	Culli	<u>'</u>	40.1	0.92	0.13	5.55
	Base	Cum	1	49.2	1.12	0.10	5.51
	Wall	Cum	2	49.2	0.16	1.52	23.85
	Slab	Cum	1	49.2	0.92	0.15	6.79
9	MH-309			50.0		2.12	
	Base Wall	Cum Cum	1 2	53.2 53.2	1.1 0.15	0.10 1.45	5.85
	Viali Slab	Cum	1	53.2	0.15	0.15	23.06 7.18
	O-34	Ouiii	'	55.2	0.0	0.10	7.10
	Base	Cum	1	54.8	1.1	0.10	6.03
	Wall	Cum	2	54.8	0.15	1.27	20.88
	Slab	Cum	1	54.8	0.9	0.15	7.40
	MH-569 Base	Cum	1	52.7	1.1	0.10	5.80
	Wall	Cum	2		0.15	1.50	23.72
	Slab	Cum	1	52.7	0.9	0.15	7.11
	MH-570						
	Base	Cum	1	36.1	1.1	0.10	3.97
	Wall	Cum	2	36.1	0.15	1.31	14.19
	Slab MH-567	Cum	1	36.1	0.9	0.15	4.87
	Base	Cum	1	17.1	1.1	0.10	1.88
	Wall	Cum	2	17.1	0.15	1.25	6.39
	Slab	Cum	1	17.1	0.9	0.15	2.31
	Road 26/8 Jeppu Market Road	1		Sides	2.00		
	MH-229 Base	Cum	2	121.2	1.3	0.15	47.27
	Wall	Cum	4	121.2	0.25	2.47	298.76
	Slab	Cum	2	121.2	1.1	0.15	40.00
	MJ-230						
	Base	Cum	2	62.8	1.3	0.15	24.49
	Wall	Cum	4	62.8	0.25	2.49	156.06
	Slab MH-605	Cum	2	62.8	1.1	0.15	20.72
	MH-6U5 Base	Cum	2	136	1.1	0.15	44.88
	Wall	Cum	4	136	0.15	1.35	109.75
	Slab	Cum	2	136	0.9	0.15	36.72
	O-66						
	Base	Cum	2	12.8	1.1	0.15	4.22
	Wall Slab	Cum Cum	2	12.8 12.8	0.15 0.9	1.22 0.15	9.33 3.46
	MH-608	Culli		12.8	0.9	0.15	3.40
J	Base	Cum	2	21.6	1.1	0.15	7.13
	Wall	Cum	4	21.6	0.15	1.23	15.94
	Slab	Cum	2	21.6	0.9	0.15	5.83
	MH-609	_	_				4
	Base Wall	Cum Cum	2	38.2 38.2	1.1 0.15	0.15 1.22	12.61 27.96
	Wali Slab	Cum	4 2	38.2	0.15	0.15	10.31
	Oldo	Guili		30.2	0.5	0.13	10.51
	Road 27/9 Gujjarkere Road	1		Sides	2.00		
1	MH-234 to MH-235						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Base	Cum	2	16.9	1.72	0.10	5.81
	Wall Slab	Cum Cum	4	16.9 16.9	0.16 1.52	1.77 0.15	19.14 7.71
2	MH-235 to MH-236	Odini		10.0	1.02	0.10	7.7.
	Base	Cum	2	29.4	1.72	0.10	10.11
	Wall Slab	Cum Cum	4	29.4 29.4	0.16 1.52	1.96 0.15	36.79 13.41
3	MH-236 to MH-237	Cum	2	29.4	1.32	0.15	13.41
-	Base	Cum	2	70.4	1.7	0.10	23.94
	Wall	Cum	4	70.4	0.15	1.96	82.79
4	Slab MH-237 to MH-238	Cum	2	70.4	1.5	0.15	31.68
	Base	Cum	2	68.4	1.7	0.10	23.26
	Wall	Cum	4	68.4	0.15	1.81	74.28
5	Slab MH-238 to MH-239	Cum	2	68.4	1.5	0.15	30.78
	Base	Cum	2	19.1	1.7	0.10	6.49
	Wall	Cum	4	19.1	0.15	1.73	19.77
6	Slab	Cum	2	19.1	1.5	0.15	8.60
б	MH-239 to MH-240 Base	Cum	2	37.7	1.8	0.10	13.57
	Wall	Cum	4	37.7	0.2	1.71	51.57
	Slab	Cum	2	37.7	1.6	0.15	18.10
7	MH-240 to MH-241 Base	Cum	2	21.3	1.72	0.10	7.33
	Wall	Cum	4	21.3	0.16	1.63	22.15
	Slab	Cum	2	21.3	1.52	0.15	9.71
8	MH-241 to MH-242 Base	Cum	2	25.9	1.72	0.10	8.91
	Wall	Cum	4	25.9	0.16	1.56	25.86
	Slab	Cum	2	25.9	1.52	0.15	11.81
9	MH-242 to MH-591			24.0		2.42	
	Base Wall	Cum Cum	2	31.2 31.2	1.7 0.15	0.10 1.54	10.61 28.74
	Slab	Cum	2	31.2	1.5	0.15	14.04
10	MH-591 to MH-246						
	Base Wall	Cum Cum	2	48.3 48.3	1.7 0.15	0.10 1.54	16.42 44.48
	Slab	Cum	2	48.3	1.5	0.15	21.74
11	MH-246 to MH-245						
	Base	Cum	2	31	1.7	0.10	10.54
	Wall Slab	Cum Cum	4 2	31 31	0.15 1.5	1.56 0.15	28.92 13.95
12	MH-245 to O-65	Odini		01	1.0	0.10	10.00
	Base	Cum	2	39.4	1.7	0.10	13.40
	Wall Slab	Cum Cum	2	39.4 39.4	0.15 1.5	1.88 0.15	44.33 17.73
13	MH-592 to MH-593	Odili		00.4	1.0	0.10	17.75
	Base	Cum	2	37.3	1.4	0.10	10.44
	Wall Slab	Cum Cum	4	37.3 37.3	0.15 1.2	1.68 0.15	37.49 13.43
14	MH-593 to MH-594	Cuili	2	31.3	1.2	0.15	13.43
	Base	Cum	2	4.1	1.4	0.10	1.15
	Wall	Cum	4	4.1	0.15	1.66	4.07
15	Slab MH-594 to MH-595	Cum	2	4.1	1.2	0.15	1.48
10	Base	Cum	2	58.3	1.4	0.10	16.32
	Wall	Cum	4	58.3	0.15	1.53	53.52
16	Slab MH-595 to MH-596	Cum	2	58.3	1.2	0.15	20.99
10	Base	Cum	2	56.8	1.4	0.10	15.90
	Wall	Cum	4	56.8	0.15	1.32	44.99
17	Slab	Cum	2	56.8	1.2	0.15	20.45
17	MH-596 to MH-597 Base	Cum	2	3.1	1.4	0.10	0.87
	Wall	Cum	4	3.1	0.15	1.25	2.33
	Slab	Cum	2	3.1	1.2	0.15	1.12
18	MH-597 to MH-598 Base	Cum	2	41.5	1.4	0.10	11.62
	Wall	Cum	4	41.5	0.15	1.27	31.50
	Slab	Cum	2	41.5	1.2	0.15	14.94
19	MH-598 to MH-599 Base	Cum	2	42.3	1.4	0.10	11.84
	Wall	Cum	4	42.3	0.15	1.24	31.47
	Slab	Cum	2	42.3	1.2	0.15	15.23
20	MH-599 to MH-600			40.0		0.10	10.10
	Base Wall	Cum Cum	2	43.3 43.3	1.4 0.15	0.10 1.27	12.12 32.86
	Slab	Cum	2	43.3	1.2	0.15	15.59
21	MH-600 to MH-601						
	Base Wall	Cum Cum	2	21.7 21.7	1.4 0.15	0.10 1.32	6.08 17.19
	vvaii Slab	Cum	2	21.7	1.2	0.15	7.81
22	MH-601 to MH-602						
				62.1	1.4	0.40	17.39
	Base Wall	Cum Cum	2 4	62.1	0.15	0.10 1.32	49.00

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
23	MH-602 to MH-603 Base	Cum	2	7.4	1.4	0.10	2.07
	Wall	Cum	4	7.4	0.15	1.33	5.88
	Slab	Cum	2	7.4	1.2	0.15	2.66
24	MH-603 to O-64	Cum	2	72.7	1.4	0.10	20.26
	Base Wall	Cum	2	72.7	1.4 0.15	0.10 1.72	20.36 74.81
	Slab	Cum	2	72.7	1.2	0.15	26.17
25	MH-229 to MH-230						
	Base Wall	Cum Cum	2	62.8 62.8	1.4 0.15	0.10 2.49	17.58 93.63
	Slab	Cum	2	62.8	1.2	0.15	22.61
26	MH-230 to MH-231						
	Base Wall	Cum	2	20.1 20.1	1.4 0.15	0.10 2.43	5.63 29.31
	Slab	Cum Cum	2	20.1	1.2	0.15	7.24
27	MH-231 to MH-589						
	Base	Cum	2	37.5	1.4	0.10	10.50
	Wall Slab	Cum Cum	2	37.5 37.5	0.15 1.2	2.13 0.15	47.93 13.50
28	MH-589 to MH-232	Ouiii		07.0	1.2	0.10	13.30
	Base	Cum	2	57.6	1.4	0.10	16.13
	Wall	Cum	4	57.6	0.15	1.93	66.70 20.74
29	Slab MH-232 to O-63	Cum	2	57.6	1.2	0.15	20.74
	Base	Cum	2	29.2	1.4	0.10	8.18
	Wall	Cum	4	29.2	0.15	1.91	33.46
30	Slab MH-607 to MH-608	Cum	2	29.2	1.2	0.15	10.51
- 50	Base	Cum	2	21.6	1.4	0.10	6.05
	Wall	Cum	4	21.6	0.15	1.23	15.94
0.4	Slab	Cum	2	21.6	1.2	0.15	7.78
31	MH-608 to MH-609 Base	Cum	2	38.2	1.4	0.10	10.70
	Wall	Cum	4	38.2	0.15	1.22	27.96
	Slab	Cum	2	38.2	1.2	0.15	13.75
32	MH-609 to MH-610	Cum	2	101.6	1.4	0.10	28.45
	Base Wall	Cum	4	101.6	0.15	1.29	78.64
	Slab	Cum	2	101.6	1.2	0.15	36.58
33	MH-610 to O-67	-		44.0		0.40	11.05
	Base Wall	Cum Cum	2	41.6 41.6	1.4 0.15	0.10 1.37	11.65 34.07
	Slab	Cum	2	41.6	1.2	0.15	14.98
	Ded. Of Covers-0.6m x 0.45m	Cum	-1007.00	0.6	0.45	0.15	-40.78
	Box Culvert	Cuiii	-1007.00	0.0	0.43	0.10	-40.70
	2/19-Old Kent Road						
	Box Culvert-Slab	Cum	16		1.00	0.20	39.04
	Box Culvert-Wall 3/20-Pandeshwar New Road	Cum	16	12.2	1.00	0.20	39.04
	Box Culvert-Slab	Cum	6	10	1.50	0.20	18.00
	Box Culvert-Wall	Cum	6	10	1.50	0.20	18.00
	4/22-Bolar Fisheries College Road Box Culvert-Slab	Cum	2	8.8	1.50	0.20	5.28
	Box Culvert-Glab Box Culvert-Wall	Cum	2	8.8	1.50	0.20	5.28
	5/23-Mulihithlu Road						
	Box Culvert-Slab	Cum	16	11.4	1.50	0.20	54.72
	Box Culvert-Wall 6/24-Mangaladevi Temple Road	Cum	16	11.4	1.50	0.20	54.72
	Box Culvert-Slab	Cum	18	27.5	1.50	0.20	148.50
	Box Culvert-Wall	Cum	18		1.50	0.20	148.50
	7/25-Monkeystand New Road Box Culvert-Slab	Cum	10	18.05	1.50	0.20	54.15
	Box Culvert-Slab	Cum	10	18.05	1.50	0.20	54.15 54.15
	8/26-Jeppu Market Road		. •		1,00	0.00	0.00
	Box Culvert-Slab	Cum	6	13.1	1.50	0.20	23.58
	Box Culvert-Wall 9/27-Gujjarkere Road	Cum	6	13.1	1.50	0.20	23.58 0.00
	Box Culvert-Slab	Cum	14	8.3	1.50	0.20	34.86
	Box Culvert-Wall	Cum	14	8.3	1.50	0.20	34.86
ļ	Footpath Edge Beam	Cum	1	1950	0.15	0.105	30.71
	Electrical Chamber Foundation	Cum	297	2.70	1.80	0.15	0.00 216.51
	Long Wall	Cum	594	2.40	0.15	2.10	449.06
	Short Wall	Cum	594	1.10	0.15	2.10	205.82
		Cum		Total Qty.	Т		9799.67
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						

1 MH-942 to MM 533	Sr. No.	Description	Unit	No's	L	В	Н	Qty.
Base		Road 19/1 Old Kent Road			Sides	2		
Wall Som 8 50.4 1.21 497			Sam	4	50.4		0.1	20.16
2 MH-54 to MH 544 Som			Sqm	8	50.4			487.87
Bess			Sqm	2	50.4	0.9		90.72
Wile Sam	2		Cam	1	12.1		0.1	F 24
Sign								126.81
Base						0.9		23.58
Will Sign 8 44.4 0.9 355 567 561	3							
State								19.76
MH-935 to MH 296						0.9	1.303	88.92
Wall Sign 8 118.7 1.415 134.5 13	4			1	1011	0.0		
Silab Sila								47.48
Second						0.0	1.415	1343.68
Base			Sqiii		110.7	0.9		213.00
Wall Sign 8 21-1 9 1255 216,			Sqm	4	21.1		0.1	8.44
Base			Sqm				1.285	216.91
Base Sqm 4 19.2 0.1 7.6			Sqm	2	21.1	0.9		37.98
Wall			Sam	1	10.2		0.1	7.69
Sish								199.68
Base Sqm 4 18.8 1.29 7.5		Slab				0.9		34.56
Wall Salab Sqm 8 18.8 1.28 19.4 19.4 18.8 Slab Sqm 2 18.8 0.9 3.3 18.8 Sqm 2 18.8 0.9 3.3 19.5 1	7							
Slab								7.52 194.02
B MH-299 to MH 300						0.9	1.23	33.84
Base	8	MH-299 to MH 300				0.0		
Siab		Base						5.16
9 MH-300 to MH 301 Sqm						0.0	1.275	131.58
Base			Sqm	2	12.9	0.9		23.22
Wall	9		Sgm	4	43.7		0.1	17.48
10 MH-301 to MH 302 Sqm		Wall			43.7			456.23
Base			Sqm	2	43.7	0.9		78.66
Wall	10		Sam	1	27.0		0.1	11 16
Slab Sqm 2 27.9 0.9 50.2								290.16
Base						0.9		50.22
Wall	11							
Slab			Sqm					7.52
12						0.9	1.233	33.84
Wall	12		Oqm		10.0	0.0		00.01
Slab								14.12
13 MH-304 to MH305 Sqm 4 32 0.1 12.5						0.0	1.26	
Base	13		Sqm		33.3	0.9		63.54
Slab	- 10		Sqm	4	32		0.1	12.80
MH-305 to MH306							1.31	335.36
Base			Sqm	2	32	0.9		57.60
Wall	14		Sam	1	50.0		0.1	23.06
Slab								622.96
Base						0.9		107.82
Wall	15				4.0			40.00
Slab								19.20 495.36
16 MH-546 to MH-547 Base						0.9	1.29	86.40
Base	16							
Slab								8.60
17 MH-547 to MH-549 Sqm						1 2	1.215	208.98
Base	17		Sqiii		21.3	1.2		51.00
Wall Sqm 8 55.8 1.32 589.		Base	Sqm					22.32
18 MH-549 to MH-548 Sqm 4 42.7 0.1 17.0 Wall Sqm 8 42.7 1.42 485. Slab Sqm 2 42.7 1.2 102. 19 MH-548 to MH-531 Sqm 4 66.9 0.1 26.7 Wall Sqm 8 66.9 1.43 765. Slab Sqm 2 66.9 1.2 160. 20 MH-531 to MH-532 Sqm 4 41.6 0.1 16.6 Wall Sqm 8 41.6 1.735 577. Slab Sqm 2 41.6 1.25 104. 21 MH-532 to MH-533 Sqm 4 25.7 0.1 10.2 Wall Sqm 8 25.7 1.705 350. Slab Sqm 8 25.7 1.705 350. Slab Sqm 8 25.7 1.25 64.2 22 MH-533 to MH-534 Sqm 2 25.7 1.25 64.2 WH-533 to MH-534 Sqm 2 25.7 1.25 64.2 WH-533 to MH-534 Sqm 2 25.7 1.25 64.2 Wall Sqm 2 25.7 1.25 64.2 WH-533 to MH-534 Sqm 2 25.7 1.25 64.2 Wall Sqm 2 25.7 1.25 64.2 WH-533 to MH-534 Sqm 2 25.7 1.25 64.2 Wall Sqm 2 25.7 1.25 64.2 WH-533 to MH-534 Sqm 2 25.7 1.25 64.2 Wall Sqm 2 25.7 1.25 64.2 Wall Sqm 2 25.7 1.25 64.2 WH-533 to MH-534 Wall Sqm 2 25.7 1.25 64.2 Wall Sqm Sqm 2 25.7 1.25 64.2 Wall Sqm			Sqm				1.32	589.25
Base			Sqm	2	55.8	1.2		133.92
Wall	ΙÖ		Sam	Δ	42 7		0.1	17.08
Slab Sqm 2 42.7 1.2 102.								485.07
Base Sqm 4 66.9 0.1 26.7 Wall Sqm 8 66.9 1.43 765. Slab Sqm 2 66.9 1.2 160. 20 MH-531 to MH-532 Sqm 4 41.6 0.1 16.6 Wall Sqm 8 41.6 1.735 577. Slab Sqm 2 41.6 1.25 104. 21 MH-532 to MH-533 Sqm 4 25.7 0.1 10.2 Base Sqm 4 25.7 0.1 10.2 Wall Sqm 8 25.7 1.705 350. Slab Sqm 2 25.7 1.25 64.2 22 MH-533 to MH-534 Sqm 2 25.7 1.25 64.2					42.7	1.2		102.48
Wall Sqm 8 66.9 1.43 765. Slab Sqm 2 66.9 1.2 160. 20 MH-531 to MH-532 Sqm 4 41.6 0.1 16.6 Wall Sqm 8 41.6 1.735 577. Slab Sqm 2 41.6 1.25 104. 21 MH-532 to MH-533 Sqm 4 25.7 0.1 10.2 Base Sqm 4 25.7 0.1 10.2 Wall Sqm 8 25.7 1.705 350. Slab Sqm 2 25.7 1.25 64.2 2 MH-533 to MH-534 Sqm 2 25.7 1.25 64.2	19		Carr		00.0		0.4	26.70
Slab Sqm 2 66.9 1.2 160. 20 MH-531 to MH-532 Sqm 4 41.6 0.1 16.6 Wall Sqm 8 41.6 1.735 577. Slab Sqm 2 41.6 1.25 104. 21 MH-532 to MH-533 Sqm 4 25.7 0.1 10.2 Wall Sqm 8 25.7 1.705 350. Slab Sqm 2 25.7 1.25 64.2 22 MH-533 to MH-534 Sqm 2 25.7 1.25 64.2								26.76 765.34
20 MH-531 to MH-532 Base Sqm 4 41.6 0.1 16.6 Wall Sqm 8 41.6 1.735 577. Slab Sqm 2 41.6 1.25 104. 21 MH-532 to MH-533 Sqm 4 25.7 0.1 10.2 Wall Sqm 4 25.7 0.1 10.2 Wall Sqm 8 25.7 1.705 350. Slab Sqm 2 25.7 1.25 64.2 22 MH-533 to MH-534 Sqm 2 25.7 1.25 64.2		Slab				1.2	1.70	160.56
Wall Sqm 8 41.6 1.735 577. Slab Sqm 2 41.6 1.25 104. 21 MH-532 to MH-533 Sqm 2 25.7 0.1 10.2 Wall Sqm 8 25.7 1.705 350. Slab Sqm 2 25.7 1.25 64.2 22 MH-533 to MH-534 Sqm 2 25.7 1.25 64.2		MH-531 to MH-532						
Slab Sqm 2 41.6 1.25 104. 21 MH-532 to MH-533 Sqm 4 25.7 0.1 10.2 Wall Sqm 8 25.7 1.705 350. Slab Sqm 2 25.7 1.25 64.2 22 MH-533 to MH-534 Sqm 2 25.7 1.25 64.2								16.64
21 MH-532 to MH-533 Base Sqm 4 25.7 0.1 10.2 Wall Sqm 8 25.7 1.705 350. Slab Sqm 2 25.7 1.25 64.2 22 MH-533 to MH-534 Sqm 2 25.7 1.25 64.2						1 25	1.735	577.41 104.00
Base Sqm 4 25.7 0.1 10.2 Wall Sqm 8 25.7 1.705 350. Slab Sqm 2 25.7 1.25 64.2 22 MH-533 to MH-534 Sqm 2 25.7 1.25 64.2	21		Sqill		41.0	1.25		104.00
Wall Sqm 8 25.7 1.705 350. Slab Sqm 2 25.7 1.25 64.2 22 MH-533 to MH-534 Sqm 2 25.7 1.25 64.2			Sqm		25.7		0.1	10.28
22 MH-533 to MH-534			Sqm				1.705	350.55
	22		Sqm	2	25.7	1.25		64.25
I Base I Sam I 41 3661 I 0.11 477		MH-533 to MH-534 Base	Sqm	4	36.6		0.1	14.64

		C		20.0		4 505	Qty.
	Wall Slab	Sqm Sqm	8 2	36.6 36.6	1.25	1.585	464.09 91.50
	MH-534 to MH-535	oqiii	_		1.20		01.00
	Base	Sqm	4	50		0.1	20.00
	Wall Slab	Sqm Sqm	<u>8</u>	50 50	1.25	1.57	628.00 125.00
	MH-535 to MH-536	Sqiii		30	1.20		125.00
	Base	Sqm	4	22.2		0.1	8.88
	Wall	Sqm	8	22.2		1.525	270.84
	Slab MH-536 to MH-537	Sqm	2	22.2	1.25		55.50
	Base	Sqm	4	29.7		0.1	11.88
	Wall	Sqm	8			1.65	392.04
	Slab	Sqm	2	29.7	1.25		74.25
	MH-537 to MH-538	0		20.0		0.4	44.40
	Base Wall	Sqm Sqm	<u>4</u> 8	36.2 36.2		0.1 1.53	14.48 443.09
	Slab	Sqm	2	36.2	1.2	1.00	86.88
27	MH-538 to MH-539						
	Base	Sqm	4	51.6		0.1	20.64
	Wall Slab	Sqm Sqm	<u>8</u>	51.6 51.6	1.2	1.535	633.65 123.84
	MH-539 to MH-540	Sqm		31.0	1.2		123.04
	Base	Sqm	4	9.5		0.1	3.80
	Wall	Sqm	8	9.5		1.51	114.76
	Slab	Sqm	2	9.5	1.2		22.80
	MH-540 to O-59 Base	Sqm	4	45.3		0.1	18.12
	Wall	Sqm	8	45.3		1.51	547.22
	Slab	Sqm	2	45.3	1.2	1.01	108.72
	Road 20/3 Pandeshwar New Road			Sides	1.00		
	Node-0-61 Base	Sqm	1	112.80		0.10	11.28
	Wall	Sqm	4			1.36	611.38
	Slab	Sqm	1	112.80	1.05		118.44
	MH-528						
	Base	Sqm	1	17.30		0.10	1.73
	Wall Slab	Sqm Sqm	4 1	17.30 17.30	0.90	1.26	86.85 15.57
	Node-O-58	Sqiii	<u> </u>	17.30	0.90		13.37
	Base	Sqm	1	88.80		0.10	8.88
	Wall	Sqm	4	88.80		1.23	435.12
	Slab	Sqm	1	88.80	0.90		79.92
	MH-527 Base	Sqm	1	44.90		0.10	4.49
	Wall	Sqm	4	44.90		1.28	228.99
	Slab	Sqm	1		0.90		40.41
	Road 22/4 Bolar Fisheries College Road			Sides	1.00		
	MH-377 to O-39 Base	Sqm	2	114.80	1.10	0.10	25.26
	Wall	Sqm	4		0.15	1.33	91.27
	Slab	Sqm	1	114.80	0.90	0.15	15.50
							
	Road-23/5 Milihithulu Road			Sides	1.00		
	MH-261 Base	Sqm	2	41.00		0.10	8.20
	Wall	Sqm	4	41.00		1.32	216.48
	Slab	Sqm	1	41.00	1.20		49.20
	MH-262						
	Base Wall	Sqm	<u>2</u> 4	49.90		0.10	9.98
	waii Slab	Sqm Sqm	4 1	49.90 49.90	1.20	1.28	254.49 59.88
	MH-263	24		.5.55			
	Base	Sqm	2	55.30		0.10	11.06
	Wall	Sqm	4	55.30		1.23	270.97
	Slab MH-615	Sqm	1	55.30	1.20		66.36
	Base	Sqm	2	31.40		0.10	6.28
	Wall	Sqm	4	31.40		1.22	152.60
	Slab	Sqm	1	31.40	1.20		37.68
	O-29	0		07.00		0.40	F 44
	Base Wall	Sqm Sqm	<u>2</u> 4	27.20 27.20		0.10 1.21	5.44 131.65
	Slab	Sqm	1	27.20	1.20	1.21	32.64
	MH-578						
	Base	Sqm	2	16.40		0.10	3.28
	Wall Slob	Sqm	4	16.40	4.00	1.25	81.67
	Slab MH-577	Sqm	1	16.40	1.20		19.68
	Base	Sqm	2	19.70		0.10	3.94
	Wall	Sqm	4	19.70		1.25	98.11
	Slab	Sqm	1	19.70	1.20		23.64
	1841.570	1					
	MH-576 Base	Sqm	2	31.80		0.10	6.36

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Slab	Sqm	1	31.80	1.20		38.16
9	MH-575 Base	Sqm	2	33.20		0.10	6.64
	Wall	Sqm	4	33.20		1.22	161.35
	Slab	Sqm	1	33.20	1.20		39.84
	O-68 Base	Sam	2	31.30	+	0.10	6.26
	Wall	Sqm Sqm	4	31.30		1.43	179.04
	Slab	Sqm	1	31.30	1.20		37.56
11	MH-582	_		Sides	2.00		
	Base Wall	Sqm Sqm	8	36.30 36.30		0.10 2.32	14.52 673.73
	Slab	Sqm	2	36.30	1.10	2.32	79.86
	MH-583	Oqiii	_	00.00	11.10		10.00
	Base	Sqm	4	20.90		0.10	8.36
	Wall	Sqm	8	20.90	4.00	2.08	347.78
	Slab MH-584	Sqm	2	20.90	1.00		41.80
- 10	Base	Sqm	4	17.40		0.10	6.96
	Wall	Sqm	8	17.40		1.63	226.20
	Slab	Sqm	2	17.40	0.95		33.06
14	MH-585 Base	Sqm	4	13.80		0.10	5.52
	Wall	Sqm	8	13.80	+	1.42	156.77
	Slab	Sqm	2	13.80	0.90		24.84
	MH-586						
	Base Wall	Sqm Sqm	8	28.40 28.40	+	0.10 1.35	11.36 305.58
	waii Slab	Sqm	2	28.40	0.90	1.35	51.12
16	MH-587			20.70	0.00		
	Base	Sqm	4	9.00		0.10	3.60
	Wall	Sqm	8	9.00	0.00	1.26	90.72
	Slab 0-69	Sqm	2	9.00	0.90		16.20
- 17	Base	Sqm	4	21.60		0.10	8.64
	Wall	Sqm	8	21.60		1.23	211.68
	Slab	Sqm	2	21.60	0.90		38.88
	MH-618 Base	Sqm	4	12.90		0.10	5.16
	Wall	Sqm	8	12.90		2.20	227.04
	Slab	Sqm	2	12.90	1.10		28.38
	MH-619						
	Base Wall	Sqm Sqm	8	24.00 24.00		0.10 2.00	9.60 384.00
	Slab	Sqm	2	24.00	1.00	2.00	48.00
	MH-620						
	Base	Sqm	4	16.90		0.10	6.76
	Wall	Sqm	8 2	16.90	1.00	1.76	
21	Slab MH-621	Sqm		16.90	1.00		33.80
	Base	Sqm	4	21.40		0.10	8.56
	Wall	Sqm	8	21.40		1.31	223.42
	Slab	Sqm	2	21.40	0.90		38.52
22	MH-622 Base	Sqm	4	10.10		0.10	4.04
	Wall	Sqm	8	10.10		1.31	105.44
	Slab	Sqm	2	10.10	0.90		18.18
	MH-623	0		44.40		0.40	40.50
	Base Wall	Sqm Sqm	8	41.40 41.40	+	0.10 1.60	16.56 528.26
	Slab	Sqm	2	41.40	1.00	1.00	82.80
24	0-70						
	Base	Sqm	4	23.80		0.10	9.52
	Wall Slab	Sqm Sqm	8 2	23.80 23.80	1.00	1.81	344.62 47.60
	MH-366	Oqiii		20.00	1.00		-T1.UU
	Base	Sqm	2	24.80		0.10	4.96
	Wall	Sqm	4	24.80		1.88	186.00
	Slab	Sqm	1	24.80	1.50		37.20
∠0	MH-258 Base	Sqm	2	52.00		0.10	10.40
	Wall	Sqm	4	52.00		1.73	359.84
	Slab	Sqm	1	52.00	1.50		78.00
27	MH-259	Carr	_	20.40	-	0.40	F 60
	Base Wall	Sqm Sqm	2	28.10 28.10	+	0.10 1.79	5.62 201.20
	Slab	Sqm	1	28.10	1.50	1.13	42.15
28	MH-260						
	Base	Sqm	2	101.50		0.10	20.30
	Wall Slab	Sqm Sqm	1	101.50 101.50	1.50	1.67	678.02 152.25
	Olav	Sym	1	101.50	1.30	+	132.23
	Road-24/6 Mangaladevi Temple Road		Side	2.00			
	MH-223 to MH-224						
		. Cam	4	92.70		0.10	37.08
	Base Wall	Sqm Sqm	8	92.70	+	1.52	1127.23

Sr. No.	Description MH-224 to MH-225	Unit	No's	L	В	Н	Qty.
	MH-224 to MH-225 Base	Sqm	4	56.00		0.10	22.40
	Wall	Sqm	8	56.00		1.53	683.20
	Slab	Sqm	2	56.00	1.53		171.36
3	MH-225 to MH-226 Base	Sqm	4	65.30		0.10	26.12
	Wall	Sqm	8	65.30		1.52	791.44
4	Slab MH-226 to MH-257	Sqm	2	65.30	1.53		199.82
4	Base	Sqm	4	145.20		0.10	58.08
	Wall	Sqm	8	145.20		1.58	1835.33
-	Slab	Sqm	2	145.20	1.53		444.31
5	MH-207 to MH-208 Base	Sqm	4	48.00		0.10	19.20
	Wall	Sqm	8	48.00		1.26	483.84
6	Slab	Sqm	2	48.00	1.20		115.20
0	MH-208 to MH-209 Base	Sqm	4	37.20		0.10	14.88
	Wall	Sqm	8	37.20		1.26	374.98
7	Slab	Sqm	2	37.20	1.20		89.28
7	MH-209 to MH-210 Base	Sqm	4	22.30		0.10	8.92
	Wall	Sqm	8	22.30		1.27	226.57
	Slab	Sqm	2	22.30	1.20		53.52
8	MH-210 to MH-211 Base	Sqm	4	71.70		0.10	28.68
	Wall	Sqm	8	71.70		1.25	714.13
•	Slab	Sqm	2	71.70	1.20		172.08
9	MH-211 to MH-212 Base	Sqm	4	35.30		0.10	14.12
	Wall	Sqm	8	35.30		1.23	347.35
40	Slab	Sqm	2	35.30	1.20		84.72
10	MH-212 to MH-213 Base	Sqm	4	85.60		0.10	34.24
	Wall	Sqm	8	85.60		1.25	852.58
4.4	Slab	Sqm	2	85.60	1.20		205.44
11	MH-213 to MH-214 Base	Sqm	4	55.10		0.10	22.04
	Wall	Sqm	8	55.10		1.24	546.59
40	Slab	Sqm	2	55.10	1.20		132.24
12	MH-214 to MH-215 Base	Sqm	4	64.30		0.10	25.72
	Wall	Sqm	8	64.30		1.25	643.00
40	Slab	Sqm	2	64.30	1.20		154.32
13	MH-215 to MH-216 Base	Sqm	4	101.30		0.10	40.52
	Wall	Sqm	8	101.30		1.26	1021.10
1.1	Slab	Sqm	2	101.30	1.20		243.12
14	MH-216 to MH-256 Base	Sqm	4	36.80		0.10	14.72
	Wall	Sqm	8	36.80		1.84	540.22
15	Slab MH-256 to O-62	Sqm	2	36.80	1.30		95.68
13	Base	Sqm	4	40.50		0.10	16.20
	Wall	Sqm	8	40.50		1.65	534.60
16	Slab MH-218 to MH-219	Sqm	2	40.50	1.23		99.63
10	Base	Sqm	4	50.70		0.10	20.28
	Wall	Sqm	8			1.61	650.99
17	Slab MH-219 to MH-220	Sqm	2	50.70	0.93		94.30
17	MH-219 to MH-220 Base	Sqm	4	34.90		0.10	13.96
	Wall	Sqm	8	34.90		1.55	431.36
18	Slab MH-220 to MH-221	Sqm	2	34.90	0.93		64.91
10	Base	Sqm	4	25.10		0.10	10.04
	Wall	Sqm	8	25.10		1.57	315.26
19	Slab MH-221 to MH-222	Sqm	2	25.10	0.93		46.69
נו	Base	Sqm	4	85.80		0.10	34.32
	Wall	Sqm	8	85.80		1.54	1057.06
	Slab	Sqm	2	85.80	0.93		159.59
	Road 25/7 Monkeystand New Road			Sides	1.00		
1	MH-564	0		22.2		-	40.45
	Base Wall	Sqm Sqm	<u>2</u>			0.10 1.60	16.16 515.50
	Slab	Sqm	1	80.80	0.92	1.00	74.34
2	MH-565	0		4= 00		0.10	0.50
	Base Wall	Sqm Sqm	<u>2</u>			0.10 1.59	3.58 113.49
	Slab	Sqm	1		0.92	1.00	16.47
3	MH-566					-	
	Base Wall	Sqm Sqm	2			0.10 1.41	8.66 243.35
	Slab	Sqm	1		0.90	1.71	38.97
4	MH-567						

Sept	Sr. No.	Description	Unit	No's	L	В	Н	Qty.
Sub		Base	Sqm	2	120.80		0.10	24.16
Section						0.90	1.23	108.72
Bease	5		Oqiii		120.00	0.50		100.72
Sabb San 1 9.70 0.90 0.77		Base						
Second							1.23	
Signar Signar 2 72 20 0 10 16.58 Wall	6		Sqm	1	9.70	0.90		8.73
Well	- 0		Sam	2	72 90		0.10	14 58
Substance Subs								536.54
Base		Slab		1	72.90	1.00		
Name	7				10.10		0.40	0.00
Sult								
Number N						0.92	1.52	
Same	8		- Oq	·	10110	0.02		00.00
Saleb Sagm 1 49.20 0.92 4.52.50								
Milk-309			Sqm			0.00	1.52	
Base	Q		Sqm	1	49.20	0.92		45.26
Wall Sign 4 63.20 1.46 307.50 47.88	3		Sam	2	53.20		0.10	10.64
Slab								
Base				1	53.20	0.90		
Wall Sqm	10							
Slab Sqm								
MH-569						0.90	1.21	
Base	11	MH-569		<u> </u>	0 1.00	0.00		. 5.02
Slab Sam 1 52.70 0.90 47.42		Base						
MH-570						2.22	1.50	
Base	12		Sqm	1	52.70	0.90		47.43
Wall	12		Sam	2	36.10		0.10	7 22
Base Sqm 4 17,10 0,10 3.42								
Base			Sqm	1	36.10	0.90		32.49
Wall	13		0	-	47.40		0.40	0.40
Sab		Wall						
Road 26/8 Jeppu Market Road						0.90	1.20	
MH-29								
Base					Sides	2.00		
Wall	1		C	4	404.00		0.45	70.70
Slab								
Base						1.10	2.71	
Wall	2	MJ-230						
Slab								
Base						1.10	2.49	
Base	3		Sqiii		02.00	1.10		130.10
Wall			Sqm	4	136.00		0.15	81.60
Base			Sqm				1.35	1463.36
Base Sqm 4 12.80 0.15 7.68	4		Sqm	2	136.00	0.90		244.80
Wall	4		Sam	1	12.00		0.15	7.69
Slab								
5 MH-608 Sqm 4 21.60 0.15 12.96 Wall Sqm 8 21.60 0.123 212.54 Slab Sqm 2 21.60 0.90 38.88 6 MH-609						0.90		
Wall	5	MH-608						
Slab								
6 MH-609 Sqm 4 38.20 0.15 22.92 Wall Sqm 8 38.20 1.22 372.83 Slab Sqm 2 38.20 0.90 68.76 Road 27/9 Gujjarkere Road Sides 2.00 2.00 1 MH-234 to MH-235 Sqm 4 16.90 0.10 6.76 Wall Sqm 8 16.90 1.77 239.30 Stab Sqm 2 16.90 1.77 239.30 Stab Sqm 2 16.90 1.52 51.38 2 MH-235 to MH-236 Sqm 2 16.90 1.52 51.38 2 MH-235 to MH-236 Sqm 4 29.40 0.10 11.76 Wall Sqm 8 29.40 1.96 459.82 Slab Sqm 8 29.40 1.52 89.38 3 MH-236 to MH-237 Sqm 8 70.40 1.52 89.38 Slab Sqm 8 70.40 1.50 20.						0.00	1.23	
Base Sqm 4 38.20 0.15 22.92	6		Sqill		∠1.00	0.90		J0.00
Slab Sqm 2 38.20 0.90 68.76		Base						
Road 27/9 Gujjarkere Road Sides 2.00							1.22	
MH-234 to MH-235 Base		Slab	Sqm	2	38.20	0.90		68.76
MH-234 to MH-235 Base		Road 27/9 Guijarkere Road			Sides	2 00		
Base	1				31400	2.00		
Slab Sqm 2 16.90 1.52 51.38 2 MH-235 to MH-236 Sqm 4 29.40 0.10 11.76 Wall Sqm 8 29.40 1.96 459.82 Slab Sqm 2 29.40 1.52 89.38 3 MH-236 to MH-237 Sqm 2 29.40 1.52 89.38 Base Sqm 4 70.40 0.10 28.16 Wall Sqm 8 70.40 1.96 1103.87 Slab Sqm 8 70.40 1.50 211.20 4 MH-237 to MH-238 Sqm 2 70.40 1.50 211.20 Wall Sqm 4 68.40 0.10 27.36 Wall Sqm 8 68.40 1.81 990.43 Slab Sqm 8 68.40 1.50 205.20 5 MH-238 to MH-239 Sqm 2 68.40 1.50 205.20 Base Sqm 4 19.10 0.10 7.64 Wall Sqm 8 19.10 1.73 263.58		Base						
2 MH-235 to MH-236 Sqm 4 29.40 0.10 11.76 Wall Sqm 8 29.40 1.96 459.82 Slab Sqm 2 29.40 1.52 89.38 3 MH-236 to MH-237 Sqm 4 70.40 0.10 28.16 Wall Sqm 8 70.40 1.96 1103.87 Slab Sqm 2 70.40 1.50 211.20 4 MH-237 to MH-238 Sqm 2 70.40 1.50 211.20 4 MH-237 to MH-238 Sqm 4 68.40 0.10 27.36 Wall Sqm 8 68.40 1.81 990.43 Slab Sqm 2 68.40 1.50 205.20 5 MH-238 to MH-239 Sqm 4 19.10 0.10 7.64 Base Sqm 4 19.10 0.10 7.64 Wall Sqm 8 19.10 1.73 263.58							1.77	
Base Sqm 4 29.40 0.10 11.76 Wall Sqm 8 29.40 1.96 459.82 Slab Sqm 2 29.40 1.52 89.38 3 MH-236 to MH-237 Sqm 4 70.40 0.10 28.16 Wall Sqm 8 70.40 1.96 1103.87 Slab Sqm 2 70.40 1.50 211.20 4 MH-237 to MH-238 Sqm 4 68.40 0.10 27.36 Wall Sqm 4 68.40 0.10 27.36 Wall Sqm 8 68.40 1.81 990.43 Slab Sqm 2 68.40 1.50 205.20 5 MH-238 to MH-239 Sqm 4 19.10 0.10 7.64 Base Sqm 4 19.10 0.10 7.64 Wall Sqm 8 19.10 1.73 263.58	2		Sqm	2	16.90	1.52		51.38
Wall Sqm 8 29.40 1.96 459.82 Slab Sqm 2 29.40 1.52 89.38 3 MH-236 to MH-237 Sqm 4 70.40 0.10 28.16 Wall Sqm 8 70.40 1.96 1103.87 Slab Sqm 2 70.40 1.50 211.20 4 MH-237 to MH-238 Sqm 4 68.40 0.10 27.36 Wall Sqm 8 68.40 1.81 990.43 Slab Sqm 2 68.40 1.50 205.20 5 MH-238 to MH-239 Sqm 2 68.40 1.50 205.20 Base Sqm 4 19.10 0.10 7.64 Wall Sqm 8 19.10 1.73 263.58			Sam	Δ	29 40		0.10	11.76
Slab Sqm 2 29.40 1.52 89.38 3 MH-236 to MH-237 Sqm 4 70.40 0.10 28.16 Wall Sqm 8 70.40 1.96 1103.87 Slab Sqm 2 70.40 1.50 211.20 4 MH-237 to MH-238 Sqm 4 68.40 0.10 27.36 Wall Sqm 4 68.40 1.81 990.43 Slab Sqm 2 68.40 1.50 205.20 5 MH-238 to MH-239 Sqm 2 68.40 1.50 205.20 Base Sqm 4 19.10 0.10 7.64 Wall Sqm 8 19.10 1.73 263.58								
Base Sqm 4 70.40 0.10 28.16 Wall Sqm 8 70.40 1.96 1103.87 Slab Sqm 2 70.40 1.50 211.20 4 MH-237 to MH-238 Sqm 4 68.40 0.10 27.36 Wall Sqm 8 68.40 1.81 990.43 Slab Sqm 2 68.40 1.50 205.20 5 MH-238 to MH-239 Sqm 2 68.40 1.50 205.20 Base Sqm 4 19.10 0.10 7.64 Wall Sqm 8 19.10 1.73 263.58		Slab				1.52		
Wall Sqm 8 70.40 1.96 1103.87 Slab Sqm 2 70.40 1.50 211.20 4 MH-237 to MH-238 Base Sqm 4 68.40 0.10 27.36 Wall Sqm 8 68.40 1.81 990.43 Slab Sqm 2 68.40 1.50 205.20 5 MH-238 to MH-239 Sqm 2 68.40 1.50 205.20 Base Sqm 4 19.10 0.10 7.64 Wall Sqm 8 19.10 1.73 263.58	3		0 :-		70.40		0.10	00.40
Slab Sqm 2 70.40 1.50 211.20 4 MH-237 to MH-238 Sqm 4 68.40 0.10 27.36 Wall Sqm 8 68.40 1.81 990.43 Slab Sqm 2 68.40 1.50 205.20 5 MH-238 to MH-239 Sqm 4 19.10 0.10 7.64 Base Sqm 4 19.10 0.10 7.64 Wall Sqm 8 19.10 1.73 263.58								
4 MH-237 to MH-238 Base Sqm 4 68.40 0.10 27.36 Wall Sqm 8 68.40 1.81 990.43 Slab Sqm 2 68.40 1.50 205.20 5 MH-238 to MH-239 Sqm 2 19.10 0.10 7.64 Base Sqm 4 19.10 0.10 7.64 Wall Sqm 8 19.10 1.73 263.58						1.50	1.90	
Base Sqm 4 68.40 0.10 27.36 Wall Sqm 8 68.40 1.81 990.43 Slab Sqm 2 68.40 1.50 205.20 5 MH-238 to MH-239 Sqm 4 19.10 0.10 7.64 Base Sqm 4 19.10 0.10 7.64 Wall Sqm 8 19.10 1.73 263.58	4				7 3.40	1.00		0
Slab Sqm 2 68.40 1.50 205.20 5 MH-238 to MH-239 Sqm 4 19.10 0.10 7.64 Base Sqm 4 19.10 0.10 7.64 Wall Sqm 8 19.10 1.73 263.58		Base						
5 MH-238 to MH-239 Base Sqm 4 19.10 0.10 7.64 Wall Sqm 8 19.10 1.73 263.58						4.50	1.81	
Base Sqm 4 19.10 0.10 7.64 Wall Sqm 8 19.10 1.73 263.58	5		Sqm	2	68.40	1.50		205.20
Wall Sqm 8 19.10 1.73 263.58	J		Sam	4	19.10		0.10	7.64
		Wall	Sqm	8	19.10			263.58
						1.50		

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
6	MH-239 to MH-240 Base	Sqm	4	37.70		0.10	15.08
	Wall	Sqm	8	37.70		1.71	515.74
7	Slab MH-240 to MH-241	Sqm	2	37.70	1.60		120.64
	Base	Sqm	4	21.30		0.10	8.52
	Wall Slab	Sqm	8	21.30 21.30	1.52	1.63	276.90 64.75
8	MH-241 to MH-242	Sqm	2	21.30	1.52		04.75
	Base	Sqm	4	25.90		0.10	10.36
	Wall Slab	Sqm Sqm	8	25.90 25.90	1.52	1.56	323.23 78.74
9	MH-242 to MH-591		_		1.02		
	Base	Sqm	4	31.20		0.10	12.48
	Wall Slab	Sqm Sqm	8 2	31.20 31.20	1.50	1.54	383.14 93.60
10	MH-591 to MH-246						
	Base Wall	Sqm Sqm	4 8	48.30 48.30		0.10 1.54	19.32 593.12
	Slab	Sqm	2	48.30	1.50	1.01	144.90
11	MH-246 to MH-245	C	4	24.00		0.40	12.40
	Base Wall	Sqm Sqm	4 8	31.00 31.00		0.10 1.56	385.64
	Slab	Sqm	2	31.00	1.50		93.00
12	MH-245 to O-65 Base	Sqm	4	39.40	-	0.10	15.76
	Wall	Sqm	8	39.40		1.88	591.00
40	Slab	Sqm	2	39.40	1.50		118.20
13	MH-592 to MH-593 Base	Sqm	4	37.30		0.10	14.92
	Wall	Sqm	8	37.30		1.68	499.82
14	Slab MH-593 to MH-594	Sqm	2	37.30	1.20		89.52
14	Base	Sqm	4	4.10		0.10	1.64
	Wall	Sqm	8	4.10		1.66	54.28
15	Slab MH-594 to MH-595	Sqm	2	4.10	1.20		9.84
	Base	Sqm	4	58.30		0.10	23.32
	Wall Slab	Sqm Sqm	8	58.30 58.30	1.20	1.53	713.59 139.92
16	MH-595 to MH-596	Sqiii		36.30	1.20		139.92
	Base	Sqm	4	56.80		0.10	22.72
	Wall Slab	Sqm Sqm	8 2	56.80 56.80	1.20	1.32	599.81 136.32
17	MH-596 to MH-597				0		
	Base Wall	Sqm Sqm	4 8	3.10 3.10		0.10 1.25	1.24 31.00
	Slab	Sqm	2	3.10	1.20	1.20	7.44
18	MH-597 to MH-598			44.50		0.40	10.00
	Base Wall	Sqm Sqm	4 8	41.50 41.50		0.10 1.27	16.60 419.98
	Slab	Sqm	2	41.50	1.20		99.60
19	MH-598 to MH-599 Base	Sqm	4	42.30		0.10	16.92
	Wall	Sqm	8	42.30		1.24	419.62
00	Slab	Sqm	2	42.30	1.20		101.52
20	MH-599 to MH-600 Base	Sqm	4	43.30		0.10	17.32
	Wall	Sqm	8	43.30		1.27	438.20
21	Slab MH-600 to MH-601	Sqm	2	43.30	1.20		103.92
	Base	Sqm	4	21.70		0.10	8.68
	Wall Clob	Sqm	8	21.70	4.00	1.32	229.15
22	Slab MH-601 to MH-602	Sqm	2	21.70	1.20		52.08
-	Base	Sqm	4	62.10		0.10	24.84
	Wall Slab	Sqm Sqm	8 2	62.10 62.10	1.20	1.32	653.29 149.04
23	MH-602 to MH-603				1.20		
	Base	Sqm	4	7.40		0.10	2.96
	Wall Slab	Sqm Sqm	8 2	7.40 7.40	1.20	1.33	78.44 17.76
24	MH-603 to O-64						
	Base Wall	Sqm Sqm	4 8	72.70 72.70		0.10 1.72	29.08 997.44
	Slab	Sqm	2	72.70	1.20	1.12	174.48
25	MH-229 to MH-230	C		00.00		0.40	05.40
	Base Wall	Sqm Sqm	4 8	62.80 62.80		0.10 2.49	25.12 1248.46
	Slab	Sqm	2	62.80	1.20	2.43	150.72
26	MH-230 to MH-231	Sam.	4	20.40		0.40	0.04
	Base Wall	Sqm Sqm	4 8	20.10 20.10		0.10 2.43	8.04 390.74
	Slab	Sqm	2	20.10	1.20		48.24
27	MH-231 to MH-589 Base	Sqm	4	37.50	-	0.10	15.00
	Wall	Sqm	8	37.50		2.13	639.00

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
28	Slab MH-589 to MH-232	Sqm	2	37.50	1.20		90.00
20	Base	Sqm	4	57.60		0.10	23.04
	Wall	Sqm	8	57.60		1.93	889.34
29	Slab MH-232 to O-63	Sqm	2	57.60	1.20		138.24
29	MH-232 to U-63 Base	Sqm	4	29.20		0.10	11.68
	Wall	Sqm	8	29.20		1.91	446.18
	Slab	Sqm	2	29.20	1.20		70.08
30	MH-607 to MH-608 Base	Sqm	4	21.60		0.10	8.64
	Wall	Sqm	8	21.60		1.23	212.54
	Slab	Sqm	2	21.60	1.20		51.84
31	MH-608 to MH-609						
	Base Wall	Sqm Sqm	8	38.20 38.20		0.10 1.22	15.28 372.83
	Slab	Sqm	2	38.20	1.20	1.22	91.68
32	MH-609 to MH-610	,					
	Base	Sqm	4	101.60		0.10	40.64
	Wall Slab	Sqm Sqm	8 2	101.60 101.60	1.20	1.29	1048.51 243.84
33	MH-610 to O-67	Oqiii		101.00	1.20		245.04
	Base	Sqm	4	41.60		0.10	16.64
	Wall	Sqm	8	41.60		1.37	454.27
	Slab	Sqm	2	41.60	1.20		99.84
	Box Culvert						
	2/19-Old Kent Road						
	Box Culvert-Slab	Sqm	8	12.2	1		97.60
	Box Culvert-Wall 3/20-Pandeshwar New Road	Sqm	32	12.2	1		390.40
	Box Culvert-Slab	Sqm	3	10	1.5		45.00
	Box Culvert-Wall	Sqm	12	10	1.5		180.00
	4/22-Bolar Fisheries College Road						
	Box Culvert-Slab Box Culvert-Wall	Sqm Sqm	1 4	8.8 8.8	1.5 1.5		13.20 52.80
	5/23-Mulihithlu Road	Oqiii		0.0	1.0		32.00
	Box Culvert-Slab	Sqm	8	11.4	1.5		136.80
	Box Culvert-Wall	Sqm	32	11.4	1.5		547.20
	6/24-Mangaladevi Temple Road Box Culvert-Slab	Sqm	9	27.5	1.5		371.25
	Box Culvert-Wall	Sqm	36	27.5	1.5		1485.00
	7/25-Monkeystand New Road						
	Box Culvert-Slab	Sqm	5	18.05	1.5		135.38
	Box Culvert-Wall	Sqm	20	18.05	1.5		541.50
	8/26-Jeppu Market Road Box Culvert-Slab	Sqm	3	13.1	1.5		58.95
	Box Culvert-Wall	Sqm	12	13.1	1.5		235.80
	9/27-Gujjarkere Road						
	Box Culvert-Slab Box Culvert-Wall	Sqm	7 28	8.3 8.3	1.5 1.5		87.15 348.60
	Box Cuivert-vvaii	Sqm Sqm	20	Total Qty.	1.0		79195.16
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			Cum	Kg/Cum	Kg	мт
	per specifications.Specification No. KBS4.6.3. do with TMT bars Fe500 (SI No : 4.46.2 of KPWD 18-19)						
	SWD Electrical Chamber	MT MT	1	8141.30 871.40	80.00 80.00		651.30 69.71
	Box Culvert	MT	1	756.26	100.00		75.63
		MT		9768.96		Total	796.64
					Check		
20	KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of subgrade 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. 305IKPWD 18-19,19.62,17.1 and 17.4)						
	Footpath						
	Road No.2/19-Old Kent Road						
	LHS	0.1		150	0.70	2.1-	24.5
	Ch.0.0 to Ch.150.0 Ch.165.0 to Ch.180.0	Cum Cum	1	150 15	3.76 4.6	0.15 0.15	84.6 10.35
	Ch. 163.0 to Ch. 160.0 Ch. 230.0 to Ch. 440.0	Cum	1	210	3.4	0.15	10.30
	Ch.450.0 to Ch.530.0	Cum	1	80	1.98	0.15	23.76
	Ch.540.0 to Ch.570.0	Cum	1	30	1.73	0.15	7.79
	Ch.580.0 to Ch.730.0 RHS	Cum	1	150	2.07	0.15	46.58
	Ch.0.0 to Ch.130.0	Cum	1	130	2.78	0.15	54.21
	Ch.130.0 to Ch.740.0	Cum	1	610	2.36	0.15	

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Road No.3/20-Pandeshwar New Road RHS						
	Ch.0.0 to Ch.170.0	Cum	1	170	1.85	0.15	47.18
	Ch.175.0 to Ch.205.0	Cum	1	30	2.2	0.15	9.9
	Road No.4/22-Bolar Fisheries College Road						
	LHS						
	Ch.0.0 to Ch.150.0	Cum	1	150	2.83	0.15	63.68
	RHS Ch.105.0 to Ch.125.0	Cum	1	20	1.65	0.15	4.95
	Road No.5/23-Milihithuli Road	Cuili		20	1.00	0.13	4.30
	LHS						
	Ch.135.0 to Ch.180.0	Cum	1	45	2.42	0.15	16.34
	Ch.190.0 to Ch.230.0	Cum	1	40	5.85	0.15	35.1
	Ch.320.0 to Ch.340.0	Cum	1	20	3.12	0.15	9.36
	Ch.355.0 to Ch.370.0	Cum	1	15	2.53	0.15	5.69
	Ch.380.0 to Ch.390.0 Ch.390.0 to Ch.420.0	Cum Cum	1	10 30	3.4 3.13	0.15 0.15	5.1 14.09
	Ch.590.0 to Ch.570.0	Cum	1	10	2.64	0.15	3.96
	Ch.580.0 to Ch.600.0	Cum	1	20	1.75	0.15	5.25
	Ch.630.0 to Ch.640.0	Cum	1	20	0.81	0.15	2.43
	RHS						
	Ch.190.0 to Ch.210.0	Cum	1	20	4.25	0.15	12.75
	Ch.570.0 to Ch.590.0	Cum	1	20	1.88	0.15	5.64
<u> </u>	Ch.590.0 to ch.600.0	Cum	1	10	1.34	0.15	2.01
	Road No.6/24-Mangaladevi Temple Road				+	+	
	LHS Ch.0.0 to Ch.60.0	Cum	1	60	7.75	0.15	69.75
	Ch.70.0 to Ch.230.0	Cum	1	160	5.1	0.15	122.4
	Ch.260.0 to ch.620.0	Cum	1	360	4.13	0.15	223.02
	RHS						
	Ch.0.0 to Ch.620.0	Cum	1	620	4.57	0.15	425.01
	Road No.7/25-Monkeystand New Road						
	LHS						
	Ch.0.0 to Ch.25.0	Cum	1	25	2.68	0.15	10.05
	Ch.30.0 to Ch.100.0 Ch.160.0 to Ch.180.0	Cum Cum	1	70 20	1.85 3.03	0.15 0.15	19.43 9.09
	Ch.270.0 to Ch.290.0	Cum	1	20	2.88	0.15	8.64
	Ch.515.0 to Ch.550.0	Cum	1	35	2.28	0.15	11.97
	RHS				2.20	00	
	Ch.0.0 to Ch.570.0	Cum	1	570	2.38	0.15	203.49
	Road No.8/26-Jeppu Market Road						
	LHS						
	Ch.0.0 to Ch.195.0	Cum	1	195	2.47	0.15	72.25
	Ch.210.0 to Ch.220.0 RHS	Cum	1	10	2.9	0.15	4.35
	Ch.0.0 to Ch.200	Cum	1	200	4.05	0.15	121.5
	Ch.210.0 to Ch.220.0	Cum	1	10	2.2	0.15	3.3
	Road No.9/27-Gujjarkere Road						
	LHS						
	Ch.0.00 to Ch.85.00	Cum	1	85	1.36	0.15	17.34
	Ch.95.0 to ch.115.0	Cum	1	20	4	0.15	12
	Ch.125.0 to Ch.560.0 Ch.570.0 to Ch.576.0	Cum	1	435	4.11	0.15	268.18
	RHS	Cum	1	6	3	0.15	2.7
	Ch.35.0 to Ch.330.0	Cum	1	295	2.33	0.15	103.1
	Ch.330.0 to Ch.576.0	Cum	1	246	1.85	0.15	68.27
	Flush Footpath with Carriageway						
	Road No.2/19-Old Kent Road						
	LHS						
	Ch.180.0 to Ch.230.0	Cum	1	50	1.38	0.15	10.35
	Ch.460.0 to Ch.480.0	Cum	1	20 20	1.31	0.15	3.93 6.60
—	Ch.690.0 to Ch.710.0 Ch.730.0 to Ch.770.0	Cum Cum	1	40	2.2 1.2	0.15 0.15	7.20
	Ch.770.0 to Ch.770.0 Ch.770.0 to Ch.790.0	Cum	1	20	2.58	0.15	7.74
	RHS	0	+			5.10	
	Ch.60.0 to Ch.70.0	Cum	1	10	2.72	0.15	4.08
	Ch.75.0 to Ch.80.0	Cum	1	5	4.5	0.15	3.38
	Ch.195.0 to Ch.213.0	Cum	1	18	0.91	0.15	2.46
	Ch.740.0 to Ch.780.0	Cum	1	40	0.78	0.15	4.68
<u> </u>	Road No.3/20-Pandeshwar New Road				-		
—	RHS Ch.10.0 to Ch.55.0	Cum	1	45	1.1	0.15	7.43
	Ch.10.0 to Ch.170.0 Ch.100.0 to Ch.170.0	Cum	1	70	1.31	0.15	13.76
	Ch.170.0 to Ch.225.0	Cum	1	55	0.83	0.15	6.85
	Ch.225.0 to Ch.290.0	Cum	1	65	0.3	0.15	2.93
	LHS						
	Ch.150.0 to Ch.220.0	Cum	1	70	0.52	0.15	5.46
	Road No.4/22-Bolar Fisheries College Road						
	RHS						
	Ch.0.0 to ch.30.0	Cum	1	30	0.49	0.15	2.21
<u> </u>	Ch.50.0 to Ch.105.0	Cum	1	55 22	0.66	0.15	5.45
-	Ch.128.0 to Ch.150.0 Road No.5/23-Milihithuli Road	Cum	1	22	0.73	0.15	2.41
	LHS		+	+	+		
	Ch.0.0 to Ch.20.0	Cum	1	20	2.25	0.15	6.75
	Ch.48.0 to Ch.52	Cum	1	4	3.5	0.15	2.10
	Ch.118.0 to Ch.124.0	Cum	1	6	8.5	0.15	7.65

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.134.0 to Ch.180.0	Cum	1	46 38	1.28 1.55	0.15	8.83
	Ch.212.0 to Ch.250.0 Ch.318.0 to Ch.345.0	Cum Cum	1	27	1.55	0.15 0.15	8.84 5.83
	Ch.355.0 to Ch.368.0	Cum	1	13	3.4	0.15	6.63
	Ch.375.0 to Ch.400.0	Cum	1	25	1.84	0.15	6.90
	Ch.400.0 t0 Ch.420.0	Cum	1	20	2.85	0.15	8.55
	Ch.472.0 to Ch.480.0 Ch.485.0 to Ch.495.0	Cum Cum	1	8 10	1.38 1.9	0.15 0.15	1.66 2.85
	Ch.535.0 to Ch.570.0	Cum	1	35	0.63	0.15	3.31
	Ch.580.0 to Ch.590.0	Cum	1	10	3.3	0.15	4.95
	Ch.590.0 to Ch.595.0	Cum	1	5	1.33	0.15	1.00
	Ch.595.0 to Ch.605.0	Cum	1	10	0.72	0.15	1.08
	Ch.610.0 to Ch.645.0 Ch.645.0 to Ch.670.0	Cum Cum	1	35 25	1.02 2.38	0.15 0.15	5.36 8.93
	Ch.675.0 to Ch.740.0	Cum	1	65	0.83	0.15	8.09
	RHS	Oum		- 00	0.00	0.10	0.00
	Ch.0.0 to Ch.70.00	Cum	1	70	2.02	0.15	21.21
	Ch.70.0 to ch.115.0	Cum	1	45	2.64	0.15	17.82
	Ch.115.0 to ch.135.0 Ch.180.0 to Ch.190.0	Cum Cum	1	20 10	4.63 1.5	0.15 0.15	13.89 2.25
	Ch.235.0 to Ch.240.0	Cum	1	5	3.5	0.15	2.23
	Ch.245.0 to ch.300.0	Cum	1	55	1.85	0.15	15.26
	Ch.300.00 to Ch.320.0	Cum	1	20	3.3	0.15	9.90
	Ch.340.0 to Ch.358.0	Cum	1	18	3.56	0.15	9.61
	Ch.378.0 to ch.380.0	Cum	1	2	1.5	0.15	0.45
	Ch.420.0 to ch. 440.0 Ch.460.0 to Ch.474.0	Cum Cum	1	20 14	3.1 0.64	0.15 0.15	9.30 1.34
	Ch.474.0 to Ch.528.0	Cum	1	54	1.87	0.15	15.15
	Ch.528.0 to Ch.550.0	Cum	1	22	0.52	0.15	1.72
	Ch.605.0 to Ch.630.0	Cum	1	25	0.77	0.15	2.89
	Ch.640.0 to Ch.660.0	Cum	1	20	0.6	0.15	1.80
	Ch.670.0 to ch.740.0	Cum	1	70	1.67	0.15	17.54
	Ch.758.0 to Ch.762.0 Road No.7/25-Monkeystand New Road	Cum	1	4	1.08	0.15	0.65
	LHS						
	Ch.28.0 to Ch.30.0	Cum	1	2	3	0.15	0.90
	Ch.100.0 to Ch.160.0	Cum	1	60	0.73	0.15	6.57
	Ch.195.0 to Ch.230.0	Cum	1	35	0.46	0.15	2.42
	Ch.250.0 to Ch.270.0	Cum	1	20	1.8	0.15	5.40
	Ch.290.0 to Ch.295.0 Ch.295.0 to Ch.318.0	Cum Cum	1	5 23	1.4 1.04	0.15 0.15	1.05 3.59
	Ch.325.0 to Ch.355.0	Cum	1	30	0.83	0.15	3.74
	Ch.395.0 to Ch.440.0	Cum	1	45	1	0.15	6.75
	Ch.458.0 to Ch.470.0	Cum	1	12	0.5	0.15	0.90
	Ch.470.0 to Ch.508.0	Cum	1	38	0.74	0.15	4.22
	Ch.530.0 to Ch.550.0	Cum	1	20	2.05	0.15	6.15
	Ch.358.0 to Ch.410.0	Cum	1	52	1.24	0.15	9.67
	Ch.445.0 to Ch.475.0	Cum	1			0.15	4.82
	Road No.8/26-Jeppu Market Road						
	LHS	0		4.4	4.40	0.45	0.00
	Ch.198.0 to Ch.212.0	Cum	1	14	1.43	0.15	3.00
	Ch.190.0 to Ch.212.0	Cum	1	22	0.73	0.15	2.41
	Road No.9/27-Gujjarkere Road		-			9.79	
	LHS						
	Ch.88.0 to Ch.98.0	Cum	1	10	0.9	0.15	1.35
	Ch.565.0 to Ch.576.0	Cum	1	11	0.91	0.15	1.50
	RHS Ch.25.0 to Ch.35.0	Cum	1	10	1	0.15	1.50
	5.1125.5 15 011100.0	Juili	'	10	'	0.10	1.50
	Pavement						
	2/19-Old Kent Road						
-	Ch.200.0 to Ch.260.0	Cum	1	60	6.53	0.50	195.90
-	Ch.260.0 to Ch.310.0 Ch.310.0 to Ch.360.0	Cum Cum	1	50 50	4.47 4.89	0.50 0.50	111.75 122.25
	Ch.360.0 to Ch.410.0	Cum	1	50	6.53	0.50	163.25
	Ch.410.0 to Ch.470.0	Cum	1	60	3.69	0.50	110.70
	Ch.470.0 to Ch.530.0	Cum	1	60	4.09	0.50	122.70
	Ch.530.0 to Ch.580.0	Cum	1	50	4.4	0.50	110.00
	Ch.580.0 to ch.630.0	Cum	1	50	6.23	0.50	155.75
	Ch.630.0 to Ch.680.0 Ch.680.0 to Ch.720.0	Cum Cum	1	50 40	4.23 5.268	0.50 0.50	105.75 105.36
	Ch.720.0 to Ch.790.0	Cum	1	70	2.4	0.50	84.00
	3/20-Pandeshwar New Road						
	Ch.0.0 to Ch.20.0	Cum	1	20	4.15	0.15	12.45
-	Ch.20.0 to Ch.70.0	Cum	1	50	5.51	0.15	41.33
<u> </u>	Ch.70.0 to Ch.120.0 Ch.120.0 to ch.180.0	Cum Cum	1	50 60	5.02 5.83	0.15 0.15	37.65 52.47
<u> </u>	Ch.180.0 to Ch.220.0	Cum	1	40	4.089	0.15	24.53
	Ch.220.0 to Ch.280.0	Cum	1	60	3.51	0.15	31.59
	Road No.4/22-Bolar Fisheries College Road						
	Ch.0 to Ch.10.0	Cum	1	10	4.9	0.50	24.50
1	Ch.10.0 to Ch.60.0	Cum	1	50 50	4.2	0.50	105.00
 	Ch.60.0 to Ch.110.0 Ch.110.0 to Ch.155.0	Cum Cum	1	50 45	5.5 5.38	0.50 0.50	137.50 121.05
	Road No.5/23-Milihithuli Road	Juili	'	40	3.30	0.50	121.00
	,	1			l		

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.0.0 to Ch.20.0	Cum	1		3.42	0.15	10.26
	Ch.20.0 to Ch.70.0	Cum	1		4.83	0.15	36.23
	Ch.70.0 to Ch.120.0	Cum	1		4.81	0.15	36.08
	Ch.120.0 to ch.160.0 Ch.160.0 to Ch.210.0	Cum Cum	1		4.79 5.3	0.15 0.15	28.74 39.75
	Ch.210.0 to Ch.260.0	Cum	1		3.27	0.15	24.53
	Ch.260.0 to Ch.310.0	Cum	1		2.94	0.15	22.05
	Ch.310.0 to Ch.360.0	Cum	1	50	4.43	0.15	33.23
	Ch.360.0 to Ch.420.0	Cum	1	60	3.97	0.15	35.73
	Ch.420.0 to Ch.470.0	Cum	1	50	3.15	0.15	23.63
	Ch.470.0 to Ch.520.0	Cum	1	50	3.52	0.15	26.40
	Ch.520.0 to Ch.560.0	Cum	1		4.12	0.15	24.72
	Ch.560.0 to Ch.610.0	Cum	1		2.96	0.15	22.20
	Ch.610.0 to Ch.670.0	Cum	1		6.2	0.15	55.80
	Ch.670.0 to Ch.710.0	Cum	1		4.72	0.15	28.32
	Ch.710.0 to Ch.760.0	Cum	1	50	2.69	0.15	20.18
	Road No.6/24-Mangaladevi Temple Road	C	4	20	40.4	0.45	E 4 4 E
	Ch.0.0 to Ch.30.0 Ch.30.0 to Ch.80.0	Cum Cum	1	30 50	12.1 12.1	0.15 0.15	54.45 90.75
	Ch.80.0 to Ch.130.0	Cum	1		12.1	0.15	90.75
	Ch.130.0 to Ch.180.0	Cum	1	50	12.1	0.15	90.75
	Ch.180.0 to Ch.270.0	Cum	1	90	12.1	0.15	163.35
	Ch.270.0 to Ch.310.0	Cum	1	40	12.1	0.15	72.60
	Ch.310.0 to Ch.360.0	Cum	1	50	14.6	0.15	109.50
	Ch.360.0 to Ch.410.0	Cum	1		14.6	0.15	109.50
	Ch.410.0 to Ch.460.0	Cum	1		12.1	0.15	90.75
	Ch.460.0 to Ch.510.0	Cum	1	50	12.1	0.15	90.75
	Ch.510.0 to Ch.560.0	Cum	1		12.1	0.15	90.75
	Ch.560.0 to Ch.628.0	Cum	1	68	12.1	0.15	123.42
<u> </u>	Road No.7/25-Monkeystand New Road	~			2.50	2	40.00
-	Ch.0.0 to Ch.20.0 Ch.20.0 to Ch.70.0	Cum Cum	1	20 50	6.36	0.15 0.15	19.08 47.70
	Ch.70.0 to Ch.70.0 Ch.70.0 to Ch.120.0	Cum	1		6.36 4.4	0.15	33.00
	Ch.120.0 to Ch.170	Cum	1	50	5	0.15	37.50
	Ch.170.0 to Ch.220.0	Cum	1	50	5.3	0.15	39.75
	Ch.220.0 to Ch.270.0	Cum	1	50	6.36	0.15	47.70
	Ch.270.0 to Ch.310.0	Cum	1	40	5.3	0.15	31.80
	Ch.310.0 to Ch.370.0	Cum	1		4.78	0.15	43.02
	Ch.370.0 to Ch.420.0	Cum	1	50	5.3	0.15	39.75
	Ch.420.0 to Ch.470.0	Cum	1	50	3.63	0.15	27.23
	Ch.470.0 to Ch.570.0	Cum	1	100	6.37	0.15	95.55
	Road No.8/26-Jeppu Market Road						
	Ch.0.0 to Ch.50.0	Cum	1		9.87	0.15	74.03
	Ch.50.0 to Ch.90.0	Cum	1		9.3	0.15	55.80
	Ch.90.0 to Ch.130.0	Cum	1		10.22	0.15	61.32
	Ch.130.0 to Ch.225.0 Road No.9/27-Gujjarkere Road	Cum	1	95	8.22	0.15	117.14
	Ch.0.0 to Ch.20.0	Cum	1	20	4.4	0.15	13.20
	Ch.20.0 to Ch.70.0	Cum	1				33.00
	Ch.70.0 to Ch.110.0	Cum	1		4.4	0.15	39.60
	Ch.110.0 to Ch.170.0	Cum	1			0.15	47.70
	Ch.170.0 to Ch.220.0	Cum	1			0.15	62.40
	Ch.220.0 to Ch.270.0	Cum	1	50	5.3	0.15	39.75
	Ch.270.0 to Ch.320.0	Cum	1	50	4.4	0.15	33.00
	Ch.320.0 to Ch.370.0	Cum	1	50	4.4	0.15	33.00
	Ch.370.0 to Ch.420.0	Cum	1		4.4	0.15	33.00
	Ch.420.0 to Ch.470.0	Cum	1			0.15	26.48
	Ch.470.0 to Ch.520.0	Cum	1		3.88	0.15	29.10
	Ch.520.0 to Ch.570.0	Cum	1	50	3.88	0.15	29.10
	Parking Area						
	2/19 - Old Kent Road Ch.30.0 to Ch.90.00	Sqm	1	60	2.4	0.15	21.60
	6/24 - Mangaladevi Temple Road	Oqili		00	2.4	0.15	∠1.00
	Ch.320.0 to CH.440.0	Sqm	1	120	2.47	0.15	44.46
	9/27 - Gujjarkere Road	Sqiii		120	2.71	0.13	U
	Ch.140.0 to Ch.200.0	Sqm	1	60	2.81	0.15	25.29
	Ch.240.0 to Ch.275.0	Sqm	1			0.15	14.02
		Cum				Total	7890.85
21	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)						
<u> </u>	Pavament						
<u> </u>	Pavement						
	2/19-Old Kent Road	C		00	6.50	0.40	20.40
-	Ch.200.0 to Ch.260.0 Ch.260.0 to Ch.310.0	Cum Cum	1	60 50	6.53 4.47	0.10 0.10	39.18 22.35
	Ch.310.0 to Ch.360.0	Cum	1		4.47		24.45
	Ch.360.0 to Ch.410.0	Cum	1			0.10	32.65
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Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.410.0 to Ch.470.0	Cum	1	60	3.69	0.10	22.14
	Ch.470.0 to Ch.530.0 Ch.530.0 to Ch.580.0	Cum Cum	1	60 50	4.09 4.4	0.10 0.10	24.54 22.00
	Ch.580.0 to ch.630.0	Cum	1	50	6.23	0.10	31.15
	Ch.630.0 to Ch.680.0	Cum	1	50	4.23	0.10	21.15
	Ch.680.0 to Ch.720.0	Cum	1	40	5.268	0.10	21.07
	Ch.720.0 to Ch.790.0	Cum	1	70	2.4	0.10	16.80
	3/20-Pandeshwar New Road	Cum	1	20	4.15	0.10	8.30
	Ch.0.0 to Ch.20.0 Ch.20.0 to Ch.70.0	Cum	1	50	5.51	0.10	27.55
	Ch.70.0 to Ch.120.0	Cum	1	50	5.02	0.10	25.10
	Ch.120.0 to ch.180.0	Cum	1	60	5.83	0.10	34.98
	Ch.180.0 to Ch.220.0	Cum	1	40	4.089	0.10	16.36
	Ch.220.0 to Ch.280.0	Cum	1	60	3.51	0.10	21.06
	Road No.4/22-Bolar Fisheries College Road	Cum	1	10	4.9	0.10	4.90
	Ch.0 to Ch.10.0 Ch.10.0 to Ch.60.0	Cum	1	50	4.9	0.10	21.00
	Ch.60.0 to Ch.110.0	Cum	1	50	5.5	0.10	27.50
	Ch.110.0 to Ch.155.0	Cum	1	45	5.38	0.10	24.21
	Road No.5/23-Milihithuli Road						
	Ch.0.0 to Ch.20.0	Cum	1	20	3.42	0.10	6.84
	Ch.20.0 to Ch.70.0	Cum	1	50	4.83	0.10	24.15
	Ch.70.0 to Ch.120.0 Ch.120.0 to ch.160.0	Cum Cum	1	50 40	4.81 4.79	0.10 0.10	24.05 19.16
	Ch.160.0 to Ch.210.0	Cum	1	50	5.3	0.10	26.50
	Ch.210.0 to Ch.260.0	Cum	1	50	3.27	0.10	16.35
	Ch.260.0 to Ch.310.0	Cum	1	50	2.94	0.10	14.70
	Ch.310.0 to Ch.360.0	Cum	1	50	4.43	0.10	22.15
	Ch.360.0 to Ch.420.0	Cum	1	60	3.97	0.10	23.82
	Ch.420.0 to Ch.470.0	Cum	1	50	3.15	0.10	15.75
	Ch.470.0 to Ch.520.0	Cum	1	50	3.52	0.10	17.60
	Ch.520.0 to Ch.560.0 Ch.560.0 to Ch.610.0	Cum Cum	1	40 50	4.12 2.96	0.10 0.10	16.48 14.80
	Ch.610.0 to Ch.670.0	Cum	1	60	6.2	0.10	37.20
	Ch.670.0 to Ch.710.0	Cum	1	40	4.72	0.10	18.88
	Ch.710.0 to Ch.760.0	Cum	1	50	2.69	0.10	13.45
	Road No.6/24-Mangaladevi Temple Road						
	Ch.0.0 to Ch.30.0	Cum	1	30	12.1	0.10	36.30
	Ch.30.0 to Ch.80.0	Cum	1	50	12.1	0.10	60.50
	Ch.80.0 to Ch.130.0	Cum	1	50	12.1	0.10	60.50
	Ch.130.0 to Ch.180.0 Ch.180.0 to Ch.270.0	Cum Cum	1	50 90	12.1 12.1	0.10 0.10	60.50 108.90
	Ch.270.0 to Ch.310.0	Cum	1	40	12.1	0.10	48.40
	Ch.310.0 to Ch.360.0	Cum	1	50	14.6	0.10	73.00
	Ch.360.0 to Ch.410.0	Cum	1	50	14.6	0.10	73.00
	Ch.410.0 to Ch.460.0	Cum	1	50	12.1	0.10	60.50
	Ch.460.0 to Ch.510.0	Cum	1	50	12.1	0.10	60.50
	Ch.510.0 to Ch.560.0	Cum	1	50	12.1	0.10	
	Ch.560.0 to Ch.628.0 Road No.7/25-Monkeystand New Road	Cum	1	68	12.1	0.10	82.28
	Ch.0.0 to Ch.20.0	Cum	1	20	6.36	0.10	12.72
	Ch.20.0 to Ch.70.0	Cum	1	50	6.36	0.10	31.80
	Ch.70.0 to Ch.120.0	Cum	1	50	4.4	0.10	22.00
	Ch.120.0 to Ch.170	Cum	1	50	5	0.10	25.00
	Ch.170.0 to Ch.220.0	Cum	1	50	5.3	0.10	26.50
	Ch.220.0 to Ch.270.0	Cum	1	50	6.36	0.10	
	Ch.270.0 to Ch.310.0 Ch.310.0 to Ch.370.0	Cum Cum	1	40 60	5.3 4.78	0.10 0.10	21.20 28.68
	Ch.370.0 to Ch.420.0	Cum	1	50	4.78 5.3	0.10	28.68
	Ch.420.0 to Ch.470.0	Cum	1	50	3.63	0.10	
	Ch.470.0 to Ch.570.0	Cum	1	100	6.37	0.10	63.70
	Road No.8/26-Jeppu Market Road						
	Ch.0.0 to Ch.50.0	Cum	1	50	9.87	0.10	49.35
	Ch.50.0 to Ch.90.0	Cum	1	40	9.3	0.10	37.20
	Ch.90.0 to Ch.130.0 Ch.130.0 to Ch.225.0	Cum Cum	1	40 95	10.22 8.22	0.10 0.10	40.88 78.09
	Road No.9/27-Gujjarkere Road	Curfi	1	90	0.22	0.10	10.09
	Ch.0.0 to Ch.20.0	Cum	1	20	4.4	0.10	8.80
	Ch.20.0 to Ch.70.0	Cum	1	50	4.4	0.10	
	Ch.70.0 to Ch.110.0	Cum	1	60	4.4	0.10	26.40
	Ch.110.0 to Ch.170.0	Cum	1	60	5.3	0.10	31.80
	Ch.170.0 to Ch.220.0	Cum	1	50	8.32	0.10	41.60
	Ch.220.0 to Ch.270.0	Cum	1	50	5.3	0.10	
	Ch.270.0 to Ch.320.0 Ch.320.0 to Ch.370.0	Cum Cum	1	50 50	4.4 4.4	0.10 0.10	22.00 22.00
	Ch.370.0 to Ch.420.0	Cum	1	50	4.4	0.10	22.00
	Ch.420.0 to Ch.470.0	Cum	1	50	3.53	0.10	17.65
	Ch.470.0 to Ch.520.0	Cum	1		3.88	0.10	
	Ch.520.0 to Ch.570.0	Cum	1		3.88	0.10	19.40
_	Parking Area						
	2/19 - Old Kent Road						
	Ch.30.0 to Ch.90.00	Cum	1	60	2.4	0.10	14.40
	6/24 - Mangaladevi Temple Road	Cum		400	0.47	0.40	00.01
	Ch.320.0 to CH.440.0 9/27 - Guijarkere Road	Cum	1	120	2.47	0.10	29.64
	9/27 - Gujjarkere Road Ch.140.0 to Ch.200.0	Cum	1	60	2.81	0.10	16.86
	Ch.240.0 to Ch.275.0	Cum	1		2.67	0.10	

Sr. No.	Description	Unit	No's	L	В	н	Qty.
		Cum		Total Qty.			2448.57
22	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)						
	Flush Footpath with Carriageway Road No.2/19-Old Kent Road						
	LHS						
	Ch.180.0 to Ch.230.0 Ch.460.0 to Ch.480.0	Cum	1.0	20.0	4.2	0.1	2.60
	Ch.460.0 to Ch.710.0	Cum Cum	1.0 1.0		1.3 2.2	0.1 0.1	2.62 4.40
	Ch.730.0 to Ch.770.0	Cum	1.0	40.0	1.2	0.1	4.80
	Ch.770.0 to Ch.790.0 RHS	Cum	1.0	20.0	2.6	0.1	5.16
	Ch.60.0 to Ch.70.0	Cum	1.0	10.0	2.7	0.1	2.72
	Ch.75.0 to Ch.80.0 Ch.195.0 to Ch.213.0	Cum	1.0 1.0		4.5 0.9	0.1	2.25
	Ch.740.0 to Ch.213.0 Ch.740.0 to Ch.780.0	Cum Cum	1.0		0.9	0.1 0.1	1.6 ⁴ 3.12
	Road No.3/20-Pandeshwar New Road						
	RHS Ch.10.0 to Ch.55.0	Cum	1.0	45.0	1.1	0.1	4.95
	Ch.100.0 to Ch.170.0	Cum	1.0	70.0	1.3	0.1	9.17
	Ch.170.0 to Ch.225.0	Cum	1.0		0.8	0.1	4.57
	Ch.225.0 to Ch.290.0	Cum	1.0	65.0	0.3	0.1	1.95
	Ch.150.0 to Ch.220.0	Cum	1.0	70.0	0.5	0.1	3.64
	Road No.4/22-Bolar Fisheries College Road RHS						
	Ch.0.0 to ch.30.0	Cum	1.0	30.0	0.5	0.1	1.47
	Ch.50.0 to Ch.105.0	Cum	1.0			0.1	3.60
	Ch.128.0 to Ch.150.0 Road No.5/23-Milihithuli Road	Cum	1.0	22.0	0.7	0.1	1.6
	LHS						
	Ch.0.0 to Ch.20.0 Ch.48.0 to Ch.52	Cum Cum	1.0 1.0		2.3 3.5	0.1 0.1	4.50 1.40
	Ch.118.0 to Ch.124.0	Cum	1.0		8.5	0.1	5.10
	Ch.134.0 to Ch.180.0	Cum	1.0		1.3	0.1	5.89
	Ch.212.0 to Ch.250.0 Ch.318.0 to Ch.345.0	Cum Cum	1.0 1.0	38.0 27.0	1.6 1.4	0.1 0.1	5.89 3.89
	Ch.355.0 to Ch.368.0	Cum	1.0	13.0	3.4	0.1	4.42
	Ch.375.0 to Ch.400.0 Ch.400.0 t0 Ch.420.0	Cum Cum	1.0 1.0		1.8 2.9	0.1 0.1	4.60 5.70
	Ch.472.0 to Ch.480.0	Cum	1.0		1.4	0.1	1.10
	Ch.485.0 to Ch.495.0	Cum	1.0		1.9	0.1	1.90
	Ch.535.0 to Ch.570.0 Ch.580.0 to Ch.590.0	Cum Cum	1.0 1.0			0.1 0.1	2.2 ² 3.30
	Ch.590.0 to Ch.595.0	Cum	1.0		1.3	0.1	0.67
	Ch.595.0 to Ch.605.0 Ch.610.0 to Ch.645.0	Cum Cum	1.0 1.0		0.7 1.0	0.1 0.1	0.72 3.57
	Ch.645.0 to Ch.670.0	Cum	1.0		2.4	0.1	5.98
	Ch.675.0 to Ch.740.0 RHS	Cum	1.0	65.0	0.8	0.1	5.40
	Ch.0.0 to Ch.70.00	Cum	1.0	70.0	2.0	0.1	14.14
	Ch.70.0 to ch.115.0	Cum	1.0			0.1	11.88
	Ch.115.0 to ch.135.0 Ch.180.0 to Ch.190.0	Cum Cum	1.0 1.0			0.1 0.1	9.26
	Ch.235.0 to Ch.240.0	Cum	1.0	5.0	3.5	0.1	1.75
	Ch.245.0 to ch.300.0 Ch.300.00 to Ch.320.0	Cum Cum	1.0 1.0			0.1 0.1	10.18
	Ch.340.0 to Ch.358.0	Cum	1.0			0.1	
	Ch.378.0 to ch.380.0	Cum	1.0			0.1	
	Ch.420.0 to ch. 440.0 Ch.460.0 to Ch.474.0	Cum Cum	1.0 1.0		3.1 0.6	0.1 0.1	6.20 0.90
	Ch.474.0 to Ch.528.0	Cum	1.0	54.0	1.9	0.1	10.10
	Ch.528.0 to Ch.550.0 Ch.605.0 to Ch.630.0	Cum Cum	1.0 1.0		0.5 0.8	0.1 0.1	1.14 1.93
	Ch.640.0 to Ch.660.0	Cum	1.0	20.0	0.6	0.1	1.20
	Ch.670.0 to ch.740.0	Cum	1.0			0.1	11.69
	Ch.758.0 to Ch.762.0 Road No.7/25-Monkeystand New Road	Cum	1.0	4.0	1.1	0.1	0.43
	LHS			_			_
	Ch.28.0 to Ch.30.0 Ch.100.0 to Ch.160.0	Cum Cum	1.0 1.0			0.1	
	Ch.195.0 to Ch.230.0	Cum	1.0	35.0	0.5	0.1	1.6
	Ch.250.0 to Ch.270.0	Cum	1.0		1.8	0.1	3.60
	Ch.290.0 to Ch.295.0 Ch.295.0 to Ch.318.0	Cum Cum	1.0 1.0		1.4 1.0	0.1 0.1	0.70 2.39
	Ch.325.0 to Ch.355.0	Cum	1.0	30.0	0.8	0.1	2.49
	Ch.395.0 to Ch.440.0	Cum	1.0	45.0	1.0	0.1	4.5

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.458.0 to Ch.470.0	Cum Cum	1.0	12.0 38.0	0.5	0.1 0.1	0.60
	Ch.470.0 to Ch.508.0 Ch.530.0 to Ch.550.0	Cum	1.0 1.0	20.0	0.7 2.1	0.1	2.81 4.10
	RHS	Oum	1.0	20.0		0.1	1.10
	Ch.358.0 to Ch.410.0	Cum	1.0	52.0	1.2	0.1	6.45
	Ch.445.0 to Ch.475.0	Cum	1.0	30.0	1.1	0.1	3.21
	Road No.8/26-Jeppu Market Road LHS						
	Ch.198.0 to Ch.212.0	Cum	1.0	14.0	1.4	0.1	2.00
	RHS	Ouiii	1.0	17.0	1.7	0.1	2.00
	Ch.190.0 to Ch.212.0	Cum	1.0	22.0	0.7	0.1	1.61
	Road No.9/27-Gujjarkere Road						
	LHS	Cum	1.0	10.0	0.0	0.4	0.00
	Ch.88.0 to Ch.98.0 Ch.565.0 to Ch.576.0	Cum Cum	1.0 1.0	10.0 11.0	0.9	0.1 0.1	0.90 1.00
	RHS	Ouiii	1.0	11.0	0.0	0.1	1.00
	Ch.25.0 to Ch.35.0	Cum	1.0	10.0	1.0	0.1	1.00
						Total	263.47
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)						
	Footpath Road No.2/19-Old Kent Road LHS						
	Ch.0.0 to Ch.150.0	Cum	1	150	3.76	0.1	56.4
	Ch.165.0 to Ch.180.0	Cum	1	15	4.6	0.1	6.9
	Ch.230.0 to Ch.440.0	Cum	1	210	3.4	0.1	71.4
	Ch.450.0 to Ch.530.0 Ch.540.0 to Ch.570.0	Cum Cum	1	80 30	1.98 1.73	0.1 0.1	15.84 5.19
	Ch.580.0 to Ch.730.0	Cum	1	150	2.07	0.1	31.05
	RHS				2.0.	0	000
	Ch.0.0 to Ch.130.0	Cum	1	130	2.78	0.1	36.14
	Ch.130.0 to Ch.740.0	Cum	1	610	2.36	0.1	143.96
	Road No.3/20-Pandeshwar New Road RHS						
	Ch.0.0 to Ch.170.0	Cum	1	170	1.85	0.1	31.45
	Ch.175.0 to Ch.205.0	Cum	1	30	2.2	0.1	6.6
	Road No.4/22-Bolar Fisheries College Road						
	LHS Ch.0.0 to Ch.150.0	Cum	1	150	2.83	0.1	42.45
	RHS	Ouiii	'	100	2.00	0.1	72.70
	Ch.105.0 to Ch.125.0	Cum	1	20	1.65	0.1	3.3
	Road No.5/23-Milihithuli Road						
	LHS	0	4	45	0.40	0.4	40.00
	Ch.135.0 to Ch.180.0 Ch.190.0 to Ch.230.0	Cum Cum	1	45 40	2.42 5.85	0.1 0.1	10.89 23.4
	Ch.320.0 to Ch.340.0	Cum	1	20	3.12	0.1	6.24
	Ch.355.0 to Ch.370.0	Cum	1	15	2.53	0.1	3.8
	Ch.380.0 to Ch.390.0	Cum	1	10	3.4	0.1	3.4
	Ch.390.0 to Ch.420.0	Cum	1	30	3.13	0.1	9.39
	Ch.560.0 to Ch.570.0 Ch.580.0 to Ch.600.0	Cum Cum	1	10 20	2.64 1.75	0.1 0.1	2.64 3.5
	Ch.630.0 to Ch.640.0	Cum	1	20	0.81	0.1	1.62
	RHS				-		
-	Ch.190.0 to Ch.210.0	Cum	1	20	4.25	0.1	8.5
-	Ch.570.0 to Ch.590.0 Ch.590.0 to ch.600.0	Cum Cum	1	20 10	1.88 1.34	0.1 0.1	3.76 1.34
	Road No.6/24-Mangaladevi Temple Road	Juill	'	10	1.34	0.1	1.34
	LHS						
	Ch.0.0 to Ch.60.0	Cum	1	60	7.75	0.1	46.5
	Ch.70.0 to Ch.230.0 Ch.260.0 to ch.620.0	Cum Cum	1	160 360	5.1 4.13	0.1 0.1	81.6 148.68
	RHS	Guill	I	300	4.13	0.1	140.08
	Ch.0.0 to Ch.620.0	Cum	1	620	4.57	0.1	283.34
	Road No.7/25-Monkeystand New Road						
	LHS	C		0.5	0.00	0.4	
	Ch.0.0 to Ch.25.0 Ch.30.0 to Ch.100.0	Cum Cum	1	25 70	2.68 1.85	0.1 0.1	6.7 12.95
	Ch.160.0 to Ch.180.0	Cum	1	20	3.03	0.1	6.06
	Ch.270.0 to Ch.290.0	Cum	1	20	2.88	0.1	5.76
	Ch.515.0 to Ch.550.0	Cum	1	35	2.28	0.1	7.98
	RHS Ch.0.0 to Ch.570.0	Cum	1	E70	2.20	0.4	125.60
	Road No.8/26-Jeppu Market Road	Cum	1	570	2.38	0.1	135.66
	LHS						
	Ch.0.0 to Ch.195.0	Cum	1	195	2.47	0.1	48.17
	Ch.210.0 to Ch.220.0	Cum	1	10	2.9	0.1	2.9
<u> </u>	RHS						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.0.0 to Ch.200	Cum	1	200	4.05	0.1	81
	Ch.210.0 to Ch.220.0	Cum	1	10	2.2	0.1	2.2
	Road No.9/27-Gujjarkere Road LHS						
	Ch.0.00 to Ch.85.00	Cum	1	85	1.36	0.1	11.56
	Ch.95.0 to ch.115.0	Cum	1	20	4	0.1	8
	Ch.125.0 to Ch.560.0	Cum	1	435	4.11	0.1	178.79
	Ch.570.0 to Ch.576.0	Cum	1	6	3	0.1	1.8
	Ch.35.0 to Ch.330.0	Cum	1	295	2.33	0.1	68.74
	Ch.330.0 to Ch.576.0	Cum	1	246	1.85	0.1	45.51
						Total	1713.06
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 continuous 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)						
	Pavement						
	2/19-Old Kent Road	C		00	6.50	0.05	07.05
	Ch.200.0 to Ch.260.0 Ch.260.0 to Ch.310.0	Cum Cum	1	60 50	6.53 4.47	0.25 0.25	97.95 55.88
	Ch.310.0 to Ch.360.0	Cum	1	50	4.89	0.25	61.13
	Ch.360.0 to Ch.410.0	Cum	1	50	6.53	0.25	81.63
	Ch.410.0 to Ch.470.0	Cum	1	60	3.69	0.25	55.35
	Ch.470.0 to Ch.530.0	Cum	1	60	4.09	0.25	61.35
	Ch.530.0 to Ch.580.0	Cum	1	50	4.4	0.25	55.00
	Ch.580.0 to ch.630.0 Ch.630.0 to Ch.680.0	Cum Cum	1	50 50	6.23 4.23	0.25 0.25	77.88 52.88
	Ch.680.0 to Ch.720.0	Cum	1	40	5.27	0.25	52.68
	Ch.720.0 to Ch.790.0	Cum	1	70	2.40	0.25	42.00
	3/20-Pandeshwar New Road						
	Ch.0.0 to Ch.20.0	Cum Cum	1	20 50	4.15 5.51	0.25 0.25	20.75
	Ch.20.0 to Ch.70.0 Ch.70.0 to Ch.120.0	Cum	1	50	5.02	0.25	68.88 62.75
	Ch.120.0 to ch.180.0	Cum	1	60	5.83	0.25	87.45
	Ch.180.0 to Ch.220.0	Cum	1	40	4.09	0.25	40.89
	Ch.220.0 to Ch.280.0	Cum	1	60	3.51	0.25	52.65
	Road No.4/22-Bolar Fisheries College Road Ch.0 to Ch.10.0	Cum	1	10	4.90	0.25	12.25
	Ch.10.0 to Ch.60.0	Cum	1	50	4.20	0.25	52.50
	Ch.60.0 to Ch.110.0	Cum	1	50	5.50	0.25	68.75
	Ch.110.0 to Ch.155.0	Cum	1	45	5.38	0.25	60.53
	Road No.5/23-Milihithuli Road Ch.0.0 to Ch.20.0	Cum	1	20	3.42	0.25	17.10
	Ch.20.0 to Ch.70.0	Cum	1	50	4.83	0.25	60.38
	Ch.70.0 to Ch.120.0	Cum	1	50	4.81	0.25	60.13
	Ch.120.0 to ch.160.0	Cum	1	40	4.79	0.25	47.90
	Ch.160.0 to Ch.210.0	Cum	1	50	5.30	0.25	66.25
-	Ch.210.0 to Ch.260.0 Ch.260.0 to Ch.310.0	Cum Cum	1	50 50	3.27 2.94	0.25 0.25	40.88 36.75
	Ch.310.0 to Ch.360.0	Cum	1	50	4.43	0.25	55.38
	Ch.360.0 to Ch.420.0	Cum	1	60	3.97	0.25	59.55
	Ch.420.0 to Ch.470.0	Cum	1	50	3.15	0.25	39.38
	Ch.470.0 to Ch.520.0 Ch.520.0 to Ch.560.0	Cum	1	50 40	3.52	0.25	44.00
	Ch.560.0 to Ch.610.0	Cum Cum	1	50	4.12 2.96	0.25 0.25	41.20 37.00
	Ch.610.0 to Ch.670.0	Cum	1	60	6.20	0.25	93.00
	Ch.670.0 to Ch.710.0	Cum	1	40	4.72	0.25	47.20
	Ch.710.0 to Ch.760.0	Cum	1	50	2.69	0.25	33.63
-	Road No.6/24-Mangaladevi Temple Road Ch.0.0 to Ch.30.0	Cum	1	30	12.10	0.25	90.75
	Ch.30.0 to Ch.80.0	Cum	1	50	12.10	0.25	151.25
	Ch.80.0 to Ch.130.0	Cum	1	50	12.10	0.25	151.25
	Ch.130.0 to Ch.180.0	Cum	1	50	12.10	0.25	151.25
<u> </u>	Ch.180.0 to Ch.270.0	Cum	1	90	12.10 12.10	0.25	272.25
-	Ch.270.0 to Ch.310.0 Ch.310.0 to Ch.360.0	Cum Cum	1	40 50	12.10	0.25 0.25	121.00 182.50
	Ch.360.0 to Ch.410.0	Cum	1	50	14.60	0.25	182.50
	Ch.410.0 to Ch.460.0	Cum	1	50	12.10	0.25	151.25
	Ch.460.0 to Ch.510.0	Cum	1	50	12.10	0.25	151.25
<u> </u>	Ch.510.0 to Ch.560.0	Cum	1	50	12.10	0.25	151.25
-	Ch.560.0 to Ch.628.0 Road No.7/25-Monkeystand New Road	Cum	1	68	12.10	0.25	205.70
	Ch.0.0 to Ch.20.0	Cum	1	20	6.36	0.25	31.80
	Ch.20.0 to Ch.70.0	Cum	1	50	6.36	0.25	79.50
	Ch.70.0 to Ch.120.0	Cum	1	50	4.40	0.25	55.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.120.0 to Ch.170	Cum	1	50	5.00		62.50
	Ch.170.0 to Ch.220.0 Ch.220.0 to Ch.270.0	Cum Cum	1	50 50	5.30 6.36		66.25 79.50
	Ch.270.0 to Ch.310.0	Cum	1	40	5.30		53.00
	Ch.310.0 to Ch.370.0	Cum	1	60	4.78		71.70
	Ch.370.0 to Ch.420.0	Cum	1	50	5.30		66.25
	Ch.420.0 to Ch.470.0	Cum	1	50	3.63		45.38
	Ch.470.0 to Ch.570.0	Cum	1	100	6.37	0.25	159.25
	Road No.8/26-Jeppu Market Road	0		50	0.07	0.05	400.00
-	Ch.0.0 to Ch.50.0 Ch.50.0 to Ch.90.0	Cum Cum	1	50 40	9.87 9.30		123.38 93.00
	Ch.90.0 to Ch.130.0	Cum	1	40	10.22		102.20
	Ch.130.0 to Ch.225.0	Cum	1	95	8.22		195.23
	Road No.9/27-Gujjarkere Road						
	Ch.0.0 to Ch.20.0	Cum	1	20	4.40	0.25	22.00
	Ch.20.0 to Ch.70.0	Cum	1	50	4.40		55.00
	Ch.70.0 to Ch.110.0	Cum	1	60	4.40		66.00
	Ch.110.0 to Ch.170.0	Cum Cum	<u>1</u>	60 50	5.30 8.32		79.50 104.00
	Ch.170.0 to Ch.220.0 Ch.220.0 to Ch.270.0	Cum	1	50	5.30		66.25
	Ch.270.0 to Ch.320.0	Cum	1	50	4.40		55.00
	Ch.320.0 to Ch.370.0	Cum	1	50	4.40		55.00
	Ch.370.0 to Ch.420.0	Cum	1	50	4.40		55.00
	Ch.420.0 to Ch.470.0	Cum	1	50	3.53		44.13
	Ch.470.0 to Ch.520.0	Cum	1	50	3.88	0.25	48.50
	Ch.520.0 to Ch.570.0	Cum	1	50	3.88		48.50
		Cum				Total	5945.80
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)						
	Pavement						
	2/19-Old Kent Road						
	Ch.200.0 to Ch.260.0	Rmt	1	13	6.53		84.89
	Ch.260.0 to Ch.310.0	Rmt	1	11	4.47		49.17
	Ch.310.0 to Ch.360.0 Ch.360.0 to Ch.410.0	Rmt Rmt	1	11 11	4.89 6.53		53.79 71.83
	Ch.410.0 to Ch.470.0	Rmt	1	13	3.69		47.97
	Ch.470.0 to Ch.530.0	Rmt	1	13	4.09		53.17
	Ch.530.0 to Ch.580.0	Rmt	1	11	4.4		48.40
	Ch.580.0 to ch.630.0	Rmt	1	11	6.23		68.53
	Ch.630.0 to Ch.680.0	Rmt	1	11	4.23		46.53
	Ch.680.0 to Ch.720.0	Rmt	1	9	5.268		47.41
	Ch.720.0 to Ch.790.0	Rmt	1	16	2.4		38.40
	3/20-Pandeshwar New Road Ch.0.0 to Ch.20.0	Rmt	1	4	4.15		16.60
	Ch.20.0 to Ch.70.0	Rmt	1	11	5.51		60.61
	Ch.70.0 to Ch.120.0	Rmt	1	11	5.02		55.22
	Ch.120.0 to ch.180.0	Rmt	1	13	5.83		75.79
	Ch.180.0 to Ch.220.0	Rmt	1	9			36.80
	Ch.220.0 to Ch.280.0	Rmt	1	13	3.51		45.63
	Road No.4/22-Bolar Fisheries College Road						
	Ch.0 to Ch.10.0	Rmt	1	2	4.9		9.80
-	Ch.10.0 to Ch.60.0 Ch.60.0 to Ch.110.0	Rmt Rmt	1	11 11	4.2 5.5		46.20 60.50
	Ch.110.0 to Ch.155.0	Rmt	1	10	5.38		53.80
	Road No.5/23-Milihithuli Road			.0	2.00		-0.00
	Ch.0.0 to Ch.20.0	Rmt	1	4	3.42		13.68
	Ch.20.0 to Ch.70.0	Rmt	1	11	4.83		53.13
	Ch.70.0 to Ch.120.0	Rmt	1	11	4.81		52.91
	Ch.120.0 to ch.160.0	Rmt	1	9	4.79		43.11
<u> </u>	Ch.160.0 to Ch.210.0 Ch.210.0 to Ch.260.0	Rmt	1	11	5.3		58.30
<u> </u>	Ch.210.0 to Ch.260.0 Ch.260.0 to Ch.310.0	Rmt Rmt	1	11 11	3.27 2.94		35.97 32.34
<u> </u>	Ch.310.0 to Ch.360.0	Rmt	1	11	4.43		48.73
	Ch.360.0 to Ch.420.0	Rmt	1	13	3.97		51.61
	Ch.420.0 to Ch.470.0	Rmt	1	11	3.15		34.65
	Ch.470.0 to Ch.520.0	Rmt	1	11	3.52		38.72
	Ch.520.0 to Ch.560.0	Rmt	1	9	4.12		37.08
	Ch.560.0 to Ch.610.0	Rmt	1	11	2.96		32.56
<u> </u>	Ch.610.0 to Ch.670.0	Rmt	1	13	6.2		80.60
<u> </u>	Ch.670.0 to Ch.710.0	Rmt	1	9	4.72		42.48
<u> </u>	Ch.710.0 to Ch.760.0 Road No.6/24-Mangaladevi Temple Road	Rmt	1	11	2.69		29.59
-	Ch.0.0 to Ch.30.0	Rmt	1	7	12.1		84.70
	Ch.30.0 to Ch.80.0	Rmt	1	11	12.1		133.10
	Ch.80.0 to Ch.130.0	Rmt	1	11	12.1		133.10
	Ch.130.0 to Ch.180.0	Rmt	1	11	12.1		133.10
	Ch.180.0 to Ch.270.0	Rmt	1	20	12.1		242.00
<u> </u>	Ch.270.0 to Ch.310.0	Rmt	1	9	12.1		108.90
<u> </u>	Ch.310.0 to Ch.360.0	Rmt	1	11	14.6		160.60

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.360.0 to Ch.410.0 Ch.410.0 to Ch.460.0	Rmt Rmt	1	11 11	14.6 12.1		160.60 133.10
	Ch.460.0 to Ch.510.0	Rmt	1	11	12.1		133.10
	Ch.510.0 to Ch.560.0	Rmt	1	11	12.1		133.10
	Ch.560.0 to Ch.628.0	Rmt	1	15	12.1		181.50
	Road No.7/25-Monkeystand New Road	Dest	1	4	6.26		25.44
	Ch.0.0 to Ch.20.0 Ch.20.0 to Ch.70.0	Rmt Rmt	1	4 11	6.36 6.36		25.44 69.96
	Ch.70.0 to Ch.120.0	Rmt	1	11	4.4		48.40
	Ch.120.0 to Ch.170	Rmt	1	11	5		55.00
	Ch.170.0 to Ch.220.0	Rmt	1	11	5.3		58.30
	Ch.220.0 to Ch.270.0	Rmt	1	11	6.36		69.96
	Ch.270.0 to Ch.310.0	Rmt	1	9	5.3		47.70
	Ch.310.0 to Ch.370.0 Ch.370.0 to Ch.420.0	Rmt Rmt	1	13 11	4.78 5.3		62.14 58.30
	Ch.420.0 to Ch.470.0	Rmt	1	11	3.63		39.93
	Ch.470.0 to Ch.570.0	Rmt	1	22	6.37		140.14
	Road No.8/26-Jeppu Market Road						
	Ch.0.0 to Ch.50.0	Rmt	1	11	9.87		108.57
	Ch.50.0 to Ch.90.0	Rmt	1	9			83.70
	Ch.90.0 to Ch.130.0	Rmt	1	9			91.98
	Ch.130.0 to Ch.225.0 Road No.9/27-Gujjarkere Road	Rmt	1	21	8.22		172.62
	Ch.0.0 to Ch.20.0	Rmt	1	4	4.4		17.60
	Ch.20.0 to Ch.70.0	Rmt	1	11	4.4		48.40
	Ch.70.0 to Ch.110.0	Rmt	1	13	4.4		57.20
	Ch.110.0 to Ch.170.0	Rmt	1	13	5.3		68.90
	Ch.170.0 to Ch.220.0	Rmt	1	11	8.32		91.52
	Ch.220.0 to Ch.270.0	Rmt	1	11	5.3		58.30
	Ch.270.0 to Ch.320.0	Rmt	1	11	4.4		48.40
<u> </u>	Ch.320.0 to Ch.370.0 Ch.370.0 to Ch.420.0	Rmt Rmt	1	11 11	4.4 4.4		48.40 48.40
	Ch.420.0 to Ch.470.0	Rmt	1	11	3.53	-	38.83
	Ch.470.0 to Ch.520.0	Rmt	1	11	3.88		42.68
	Ch.520.0 to Ch.576.0	Rmt	1	11	3.88		42.68
					Total Qty.		5236.85
		Rmt		Consider 10	% Qty of T	otal	523.69
26	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)	Dest			T. (10)		
	Consider Same Qty of Joint Filling@5% of Joint Filler	Rmt			Total Qty.		26.18
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-in-charge). (RA Attached)						
	Consider Provisional Qty.	Rmt	20				20.00
		Rmt				Sub Total	20.00
		No's		Total Qty.			50
	Vol of one kerb stone=0.102cum,Total vol of kerb=	Cum					5
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)						
-	Footpath Road No.2/19-Old Kent Road						
	LHS						
	Ch.0.0 to Ch.150.0	Rm	1	150			150
	Ch.165.0 to Ch.180.0	Rm	1	15			15
	Ch.230.0 to Ch.440.0	Rm	1	210			210
	Ch.450.0 to Ch.530.0	Rm	1	80			80
<u> </u>	Ch.540.0 to Ch.570.0	Rm Rm	1	30 150			30 150
-	Ch.580.0 to Ch.730.0	Rm	1	150		1	150
	Ch.0.0 to Ch.130.0	Rm	1	130			130
	Ch.130.0 to Ch.740.0	Rm	1	610			610
	Road No.3/20-Pandeshwar New Road						
	RHS						
	Ch.0.0 to Ch.170.0	Rm	1	170			170
	Ch.175.0 to Ch.205.0	Rm	1	30			30
-	Road No.4/22-Bolar Fisheries College Road LHS						
-	Ch.0.0 to Ch.150.0	Rm	1	150			150
	RHS	73111	'	150			130
	Ch.105.0 to Ch.125.0	Rm	1	20			20
	Road No.5/23-Milihithuli Road						

Sr. No.	Description LHS	Unit	No's	L	В	Н	Qty.
	Ch.135.0 to Ch.180.0	Rm	1	45			45
	Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0	Rm Rm	1	40 20			40 20
	Ch.355.0 to Ch.370.0	Rm	1	15			15
	Ch.380.0 to Ch.390.0	Rm	1	10			10
	Ch.390.0 to Ch.420.0	Rm	1	30			30
	Ch.560.0 to Ch.570.0 Ch.580.0 to Ch.600.0	Rm Rm	1	10 20			10 20
	Ch.630.0 to Ch.640.0	Rm	1	20			20
	RHS						
	Ch.190.0 to Ch.210.0 Ch.570.0 to Ch.590.0	Rm Rm	1	20 20			20 20
	Ch.590.0 to ch.600.0	Rm	1	10			10
	Road No.6/24-Mangaladevi Temple Road						
	LHS Ch.0.0 to Ch.60.0	D	1	60			60
	Ch.70.0 to Ch.230.0	Rm Rm	1	160			160
	Ch.260.0 to ch.620.0	Rm	1	360			360
	RHS						
	Ch.0.0 to Ch.620.0 Road No.7/25-Monkeystand New Road	Rm	1	620			620
	LHS						
	Ch.0.0 to Ch.25.0	Rm	1	25			25
	Ch.30.0 to Ch.100.0	Rm	1	70			70 20
	Ch.160.0 to Ch.180.0 Ch.270.0 to Ch.290.0	Rm Rm	1	20 20			20
	Ch.515.0 to Ch.550.0	Rm	1	35			35
	RHS						
	Ch.0.0 to Ch.570.0 Road No.8/26-Jeppu Market Road	Rm	1	570			570
	LHS						
	Ch.0.0 to Ch.195.0	Rm	1	195			195
	Ch.210.0 to Ch.220.0	Rm	1	10			10
	RHS Ch.0.0 to Ch.200	Rm	1	200			200
	Ch.210.0 to Ch.220.0	Rm	1	10			10
	Road No.9/27-Gujjarkere Road						
	LHS Ch.0.00 to Ch.85.00	Rm	1	85			85
	Ch.95.0 to ch.115.0	Rm	1	20			20
	Ch.125.0 to Ch.560.0	Rm	1	435			435
	Ch.570.0 to Ch.576.0 RHS	Rm	1	6			6
	Ch.35.0 to Ch.330.0	Rm	1	295			295
	Ch.330.0 to Ch.576.0	Rm	1	246			246
	Dodust Posuco Kork Stone Oty	Rm	-1	1198.00		Total=	5447.00 -1198.00
	Deduct Resuse Kerb Stone Qty.	KIII	-1	1196.00			4249.00
	C= A+B/0.45m(length of one Kerb Stone)	Nos				Total(C)	9442.00
	Dicontinuos Kerb at Level Footpath(D) Vol of 1 Kerb=0.028 cum, Total Vol.C*0.028+(D)=	Cum Cum	1	1950	0.15	0.35	102.38 366.75
	voi or i Kerb=0.020 cum, Total voi.c 0.020+(D)=	Ouiii					300.73
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)						
-	Footpath Road No.2/19-Old Kent Road						
	LHS						
	Ch.0.0 to Ch.150.0	Rm	1	150			150
	Ch.165.0 to Ch.180.0 Ch.230.0 to Ch.440.0	Rm Rm	1	15 210			15 210
	Ch.450.0 to Ch.530.0	Rm	1	80			80
	Ch.540.0 to Ch.570.0	Rm	1	30			30
-	Ch.580.0 to Ch.730.0 RHS	Rm	1	150		1	150
	Ch.0.0 to Ch.130.0	Rm	1	130			130
	Ch.130.0 to Ch.740.0	Rm	1	610			610
-	Road No.3/20-Pandeshwar New Road						
-	RHS Ch.0.0 to Ch.170.0	Rm	1	170			170
	Ch.175.0 to Ch.205.0	Rm	1	30			30
	Road No.4/22-Bolar Fisheries College Road						
	LHS Ch.0.0 to Ch.150.0	Rm	1	150			150
	RHS	13111	'	130			130
	Ch.105.0 to Ch.125.0	Rm	1	20			20
<u> </u>	Road No.5/23-Milihithuli Road						
-	LHS Ch.135.0 to Ch.180.0	Rm	1	45			45
	Ch.190.0 to Ch.230.0	Rm	1	40			40
	Ch.320.0 to Ch.340.0	Rm	1	20			20
	Ch.355.0 to Ch.370.0	Rm	1	15		ĺ	15

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.380.0 to Ch.390.0 Ch.390.0 to Ch.420.0	Rm Rm	1	10 30			10
	Ch.560.0 to Ch.570.0	Rm	1	10			30 10
	Ch.580.0 to Ch.600.0	Rm	1	20			20
	Ch.630.0 to Ch.640.0	Rm	1	20			20
	RHS						
	Ch.190.0 to Ch.210.0 Ch.570.0 to Ch.590.0	Rm Rm	1	20 20			20 20
	Ch.590.0 to ch.600.0	Rm	1	10			10
	Road No.6/24-Mangaladevi Temple Road	1311					- 10
	LHS						
	Ch.0.0 to Ch.60.0	Rm	1				60
	Ch.70.0 to Ch.230.0 Ch.260.0 to ch.620.0	Rm Rm	1				160 360
	RHS	KIII	ı	300			300
	Ch.0.0 to Ch.620.0	Rm	1	620			620
	Road No.7/25-Monkeystand New Road						
	LHS						
	Ch.0.0 to Ch.25.0 Ch.30.0 to Ch.100.0	Rm	1				25
	Ch.160.0 to Ch.180.0	Rm Rm	1				70 20
	Ch.270.0 to Ch.290.0	Rm	1				20
	Ch.515.0 to Ch.550.0	Rm	1				35
	RHS						
	Ch.0.0 to Ch.570.0	Rm	1	570			570
	Road No.8/26-Jeppu Market Road						
	LHS Ch.0.0 to Ch.195.0	Rm	1	195			195
	Ch.210.0 to Ch.220.0	Rm	1	10			193
	RHS						
	Ch.0.0 to Ch.200	Rm	1	200			200
	Ch.210.0 to Ch.220.0	Rm	1	10			10
	Road No.9/27-Gujjarkere Road						
	LHS Ch.0.00 to Ch.85.00	Rm	1	85			85
	Ch.95.0 to ch.115.0	Rm	1				20
	Ch.125.0 to Ch.560.0	Rm	1				435
	Ch.570.0 to Ch.576.0	Rm	1	6			6
	RHS	_					
	Ch.35.0 to Ch.330.0	Rm	1	295			295
-	Ch.330.0 to Ch.576.0 Total Qty.	Rm Rm	1	246			246 5447
	C= A+B/0.45m(length of one Kerb Stone)	Nos.					12104
	Total Vol.= 0.0118	Cum					143
30	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).						
	Consider 50% Qty. Of Existing Dismantaled Kerb available on Site	Rmt	50%	2396.00			1198.00
31	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)						
	Road No.2/19-Old Kent Road						
	LHS						
	Ch.0.0 to Ch.150.0	Sqm	1	150		0.275	41.25
	Ch.165.0 to Ch.180.0	Sqm	1	15		0.275	4.13
	Ch.230.0 to Ch.440.0 Ch.450.0 to Ch.530.0	Sqm Sqm	1	210 80		0.275 0.275	57.75 22
	Ch.540.0 to Ch.570.0	Sqm	1			0.275	8.25
	Ch.580.0 to Ch.730.0	Sqm	1			0.275	41.25
	RHS						
	Ch.0.0 to Ch.130.0	Sqm	1			0.275	35.75
-	Ch.130.0 to Ch.740.0	Sqm	1	610		0.275	167.75
	Road No.3/20-Pandeshwar New Road RHS						
	Ch.0.0 to Ch.170.0	Sqm	1	170		0.275	46.75
	Ch.175.0 to Ch.205.0	Sqm	1			0.275	8.25
	Road No.4/22-Bolar Fisheries College Road						
	LHS						
	Ch.0.0 to Ch.150.0	Sqm	1	150		0.275	41.25
	RHS Ch.105.0 to Ch.125.0	Carr	4	00		0.075	
	Road No.5/23-Milihithuli Road	Sqm	1	20		0.275	5.5
	LHS						
	Ch.135.0 to Ch.180.0	Sqm	1	45		0.275	12.38

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0	Sqm Sqm	1	40 20		0.275 0.275	11 5.5
	Ch.355.0 to Ch.370.0	Sqm	1	15		0.275	4.13
	Ch.380.0 to Ch.390.0	Sqm	1	10		0.275	2.75
	Ch.390.0 to Ch.420.0	Sqm	1	30		0.275	8.25
	Ch.560.0 to Ch.570.0	Sqm	1	10		0.275	2.75
	Ch.580.0 to Ch.600.0 Ch.630.0 to Ch.640.0	Sqm Sqm	1			0.275 0.275	5.5 5.5
	RHS	Sqiii	'	20		0.275	5.5
	Ch.190.0 to Ch.210.0	Sqm	1	20		0.275	5.5
	Ch.570.0 to Ch.590.0	Sqm	1	20		0.275	5.5
	Ch.590.0 to ch.600.0	Sqm	1	10		0.275	2.75
	Road No.6/24-Mangaladevi Temple Road						
	LHS Ch.0.0 to Ch.60.0	Sqm	1	60		0.275	16.5
	Ch.70.0 to Ch.230.0	Sqm	1	160		0.275	44
	Ch.260.0 to ch.620.0	Sqm	1	360		0.275	99
	RHS						
	Ch.0.0 to Ch.620.0	Sqm	1	620		0.275	170.5
	Road No.7/25-Monkeystand New Road LHS						
	Ch.0.0 to Ch.25.0	Sqm	1	25		0.275	6.88
	Ch.30.0 to Ch.100.0	Sqm	1	70		0.275	19.25
	Ch.160.0 to Ch.180.0	Sqm	1	20		0.275	5.5
	Ch.270.0 to Ch.290.0	Sqm	1	20		0.275	5.5
	Ch.515.0 to Ch.550.0	Sqm	1	35		0.275	9.63
	RHS Ch.0.0 to Ch.570.0	C	1	570		0.075	450.75
	Road No.8/26-Jeppu Market Road	Sqm	ı	570		0.275	156.75
	LHS						
	Ch.0.0 to Ch.195.0	Sqm	1	195		0.275	53.63
	Ch.210.0 to Ch.220.0	Sqm	1	10		0.275	2.75
	RHS						
	Ch.0.0 to Ch.200	Sqm	1			0.275	55
	Ch.210.0 to Ch.220.0 Road No.9/27-Gujjarkere Road	Sqm	1	10		0.275	2.75
	LHS						
	Ch.0.00 to Ch.85.00	Sqm	1	85		0.275	23.38
	Ch.95.0 to ch.115.0	Sqm	1			0.275	5.5
	Ch.125.0 to Ch.560.0	Sqm	1	435		0.275	119.63
	Ch.570.0 to Ch.576.0	Sqm	1	6		0.275	1.65
	RHS Ch.35.0 to Ch.330.0	Sqm	1	295		0.275	81.13
	Ch.330.0 to Ch.576.0	Sqm	1			0.275	67.65
		Sqm			Total Qty.		1497.97
	P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for						
32							
32	electrical ducting.	Nos.	2	297			594.00
32		Nos.	2	297	Total Qty.		594.00 594.00
32	electrical ducting.		2	297			
	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD		2	297			
	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached)		2	297			
	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD		2		Total Qty.		
33	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road		2	297 Sides			
	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD		2		Total Qty.		
33	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544	Nos.	2	Sides	Total Qty.		100.80
33	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base	Nos.		Sides	Total Qty.		594.00
33	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-544 to MH 545	Rm	2	Sides 50.4	Total Qty.		100.80 26.20
33	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-544 to MH 545 Base	Nos.	2	Sides	Total Qty.		100.80
33	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-544 to MH 545	Rm	2	Sides 50.4	Total Qty.		100.80 26.20
33	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-545 to MH 545 Base MH-545 to MH 545 Base MH-545 to MH 296	Rm Rm	2 2 2	Sides 50.4 13.1 49.4	Total Qty.		100.80 26.20 98.80
33 1 2 3 4 5 5	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-544 to MH 545 Base MH-545 to MH 296 Base MH-296 to MH 297 Base	Rm Rm	2 2 2	Sides 50.4 13.1 49.4	Total Qty.		100.80 26.20 98.80
33	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-544 to MH 545 Base MH-545 to MH 296 Base MH-296 to MH 297 Base MH-297 to MH 298	Rm Rm Rm Rm	2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1	Total Qty.		100.80 26.20 98.80 237.40 42.20
33 1 2 3 4 5	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-545 to MH 545 Base MH-545 to MH 296 Base MH-296 to MH 297 Base MH-297 to MH 298 Base	Rm Rm Rm	2 2 2	Sides 50.4 13.1 49.4 118.7	Total Qty.		100.80 26.20 98.80 237.40
33 1 2 3 4 5 5	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-545 to MH 545 Base MH-545 to MH 296 Base MH-296 to MH 297 Base MH-297 to MH 298 Base MH-298 to MH 299	Rm Rm Rm Rm Rm	2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1 19.2	Total Qty.		100.80 26.20 98.80 237.40 42.20 38.40
33 1 2 3 4 5	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-545 to MH 545 Base MH-545 to MH 296 Base MH-296 to MH 297 Base MH-297 to MH 298 Base	Rm Rm Rm Rm	2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1	Total Qty.		100.80 26.20 98.80 237.40 42.20
33 1 2 3 4 5 6 7	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-544 to MH 545 Base MH-545 to MH 296 Base MH-296 to MH 297 Base MH-297 to MH 298 Base MH-298 to MH 299 Base MH-299 to MH 300 Base	Rm Rm Rm Rm Rm	2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1 19.2	Total Qty.		100.80 26.20 98.80 237.40 42.20 38.40
33 1 2 3 4 5 6	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-545 to MH 545 Base MH-545 to MH 296 Base MH-297 to MH 297 Base MH-297 to MH 298 Base MH-298 to MH 299 Base MH-299 to MH 300 Base MH-300 to MH 301	Rm Rm Rm Rm Rm Rm Rm	2 2 2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1 19.2 18.8 12.9	Total Qty.		100.80 26.20 98.80 237.40 42.20 38.40 37.60 25.80
33 1 2 3 4 5 6 7 8	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-544 to MH 545 Base MH-545 to MH 296 Base MH-296 to MH 297 Base MH-297 to MH 298 Base MH-298 to MH 299 Base MH-299 to MH 300 Base MH-300 to MH 301 Base	Rm Rm Rm Rm Rm Rm	2 2 2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1 19.2 18.8	Total Qty.		100.80 26.20 98.80 237.40 42.20 38.40 37.60
33 1 2 3 4 5 6 7	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-545 to MH 545 Base MH-545 to MH 296 Base MH-296 to MH 297 Base MH-297 to MH 298 Base MH-298 to MH 299 Base MH-299 to MH 300 Base MH-300 to MH 301 Base MH-300 to MH 301 Base MH-301 to MH 302	Rm Rm Rm Rm Rm Rm Rm Rm	2 2 2 2 2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1 19.2 18.8 12.9 43.7	Total Qty.		100.80 26.20 98.80 237.40 42.20 38.40 37.60 25.80
33 1 2 3 4 5 6 7 8	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-545 to MH 545 Base MH-545 to MH 296 Base MH-296 to MH 297 Base MH-297 to MH 298 Base MH-297 to MH 298 Base MH-298 to MH 299 Base MH-299 to MH 300 Base MH-300 to MH 301 Base MH-301 to MH 302 Base	Rm Rm Rm Rm Rm Rm Rm	2 2 2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1 19.2 18.8 12.9	Total Qty.		100.80 26.20 98.80 237.40 42.20 38.40 37.60 25.80
33 1 2 3 4 5 6 7 8 9 10	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-545 to MH 545 Base MH-545 to MH 296 Base MH-296 to MH 297 Base MH-297 to MH 298 Base MH-298 to MH 299 Base MH-299 to MH 300 Base MH-300 to MH 301 Base MH-301 to MH 302 Base MH-302 to MH 303 Base MH-302 to MH 303 Base	Rm Rm Rm Rm Rm Rm Rm Rm	2 2 2 2 2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1 19.2 18.8 12.9 43.7	Total Qty.		100.80 26.20 98.80 237.40 42.20 38.40 37.60 25.80
33 1 2 3 4 5 6 7 8 9 10	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-544 to MH 545 Base MH-296 to MH 297 Base MH-297 to MH 298 Base MH-298 to MH 299 Base MH-299 to MH 300 Base MH-300 to MH 301 Base MH-301 to MH 302 Base MH-302 to MH 303 Base MH-303 to MH 304	Rm	2 2 2 2 2 2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1 19.2 18.8 12.9 43.7 27.9 18.8	Total Qty.		100.80 26.20 98.80 237.40 42.20 38.40 37.60 25.80 87.40 55.80
33 1 2 3 4 5 6 7 8 9 10 11	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-545 to MH 545 Base MH-296 to MH 296 Base MH-297 to MH 298 Base MH-298 to MH 299 Base MH-299 to MH 300 Base MH-300 to MH 301 Base MH-301 to MH 302 Base MH-303 to MH 303 Base MH-303 to MH 304 Base MH-303 to MH 304 Base	Rm Rm Rm Rm Rm Rm Rm Rm Rm	2 2 2 2 2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1 19.2 18.8 12.9 43.7 27.9	Total Qty.		100.80 26.20 98.80 237.40 42.20 38.40 37.60 25.80 55.80
33 1 2 3 4 5 6 7 8 9 10	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-545 to MH 296 Base MH-545 to MH 297 Base MH-296 to MH 297 Base MH-297 to MH 298 Base MH-298 to MH 299 Base MH-299 to MH 300 Base MH-301 to MH 301 Base MH-301 to MH 302 Base MH-303 to MH 304 Base MH-304 to MH305	Rm	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1 19.2 18.8 12.9 43.7 27.9 18.8 35.3	Total Qty.		100.80 26.20 98.80 237.40 42.20 38.40 37.60 25.80 87.40 55.80 70.60
33 1 2 3 4 5 6 7 8 9 10 11 12 13	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-544 to MH 545 Base MH-545 to MH 296 Base MH-296 to MH 297 Base MH-297 to MH 298 Base MH-298 to MH 299 Base MH-301 to MH 301 Base MH-300 to MH 301 Base MH-302 to MH 303 Base MH-303 to MH 304 Base MH-304 to MH305 Base	Rm	2 2 2 2 2 2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1 19.2 18.8 12.9 43.7 27.9 18.8	Total Qty.		100.80 26.20 98.80 237.40 42.20 38.40 37.60 25.80 87.40 55.80
33 1 2 3 4 5 6 7 8 9 10 11	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-545 to MH 296 Base MH-545 to MH 297 Base MH-296 to MH 297 Base MH-297 to MH 298 Base MH-298 to MH 299 Base MH-299 to MH 300 Base MH-301 to MH 301 Base MH-301 to MH 302 Base MH-303 to MH 304 Base MH-304 to MH305	Rm	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1 19.2 18.8 12.9 43.7 27.9 18.8 35.3	Total Qty.		100.80 26.20 98.80 237.40 42.20 38.40 37.60 25.80 87.40 55.80 70.60
33 1 2 3 4 5 6 7 8 9 10 11 12 13	electrical ducting. Power Duct Chambers P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached) SWD SWD Road 19/1 Old Kent Road MH-542 to MH 543 Base MH-543 to MH 544 Base MH-544 to MH 545 Base MH-2545 to MH 296 Base MH-297 to MH 297 Base MH-297 to MH 298 Base MH-298 to MH 299 Base MH-299 to MH 300 Base MH-300 to MH 301 Base MH-301 to MH 302 Base MH-301 to MH 303 Base MH-303 to MH 304 Base MH-303 to MH 304 Base MH-303 to MH 304 Base MH-303 to MH 305 Base MH-305 to MH305 Base MH-305 to MH305 Base MH-305 to MH306	Rm	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sides 50.4 13.1 49.4 118.7 21.1 19.2 18.8 12.9 43.7 27.9 18.8 35.3 32	Total Qty.		100.80 26.20 98.80 237.40 42.20 38.40 37.60 25.80 87.40 55.80 70.60 64.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
16	Base MH-546 to MH-547	Rm	2	48			96.00
	Base MH-547 to MH-549	Rm	2	21.5			43.00
	Base	Rm	2	55.8			111.60
18	MH-549 to MH-548 Base	Rm	2	42.7			85.40
19	MH-548 to MH-531 Base	Rm	2	66.9			133.80
20	MH-531 to MH-532						
21	Base MH-532 to MH-533	Rm	2	41.6			83.20
22	Base MH-533 to MH-534	Rm	2	25.7			51.40
	Base MH-534 to MH-535	Rm	2	36.6			73.20
	Base	Rm	2	50			100.00
	MH-535 to MH-536 Base	Rm	2	22.2			44.40
25	MH-536 to MH-537 Base	Rm	2	29.7			59.40
26	MH-537 to MH-538 Base	Rm	2	36.2			72.40
27	MH-538 to MH-539						
28	Base MH-539 to MH-540	Rm	2	51.6			103.20
29	Base MH-540 to O-59	Rm	2	9.5			19.00
	Base	Rm	2	45.3			90.60
	Road 20/3 Pandeshwar New Road			Sides	1		
	Node-0-61 Base	Rm	1	112.8			112.80
2	MH-528 Base	Rm	1	17.3			17.30
3	Node-O-58 Base	Rm	1	88.8			88.80
4	MH-527						
	Base	Rm	1				44.90
1	Road 22/4 Bolar Fisheries College Road MH-377 to O-39			Sides	1		
	Base	Rm	1	114.8			114.80
	Road-23/5 Milihithulu Road			Sides	1		
	MH-261 Base	Rm	1	41			41.00
2	MH-262 Base	Rm	1	49.9			49.90
	MH-263 Base	Rm	1	55.3			55.30
	MH-615						
	Base 0-29	Rm	1	31.4			31.40
	Base MH-578	Rm	1	27.2			27.20
	MH-578 Base	Rm Rm	1	27.2			27.20 16.40
7	MH-578 Base MH-577 Base						
8	MH-578 Base MH-577 Base MH-576 Base	Rm	1	16.4			16.40
8	MH-578 Base MH-577 Base MH-576	Rm Rm	1	16.4			16.40
7 8 9	MH-578 Base MH-577 Base MH-576 Base MH-575 Base O-68	Rm Rm Rm	1 1 1	16.4 19.7 31.8 33.2			16.40 19.70 31.80 33.20
7 8 9	MH-578 Base MH-577 Base MH-576 Base MH-575 Base O-68 Base MH-582	Rm Rm Rm Rm	1 1 1 1	16.4 19.7 31.8 33.2 31.3			16.40 19.70 31.80 33.20 31.30
7 8 9 10	MH-578 Base MH-577 Base MH-576 Base MH-575 Base O-68 Base MH-582 Base MH-583	Rm Rm Rm Rm Rm	1 1 1 1 2	16.4 19.7 31.8 33.2 31.3 36.3			16.40 19.70 31.80 33.20 31.30 72.60
7 8 9 10 11	MH-578 Base MH-577 Base MH-576 Base MH-575 Base MH-575 Base O-68 Base MH-582 Base	Rm Rm Rm Rm	1 1 1 1	16.4 19.7 31.8 33.2 31.3			16.40 19.70 31.80 33.20 31.30
7 8 9 10 11 12	MH-578 Base MH-577 Base MH-576 Base MH-575 Base O-68 Base MH-582 Base MH-583 Base MH-583 Base MH-584 Base	Rm Rm Rm Rm Rm	1 1 1 1 2	16.4 19.7 31.8 33.2 31.3 36.3 20.9			16.40 19.70 31.80 33.20 31.30 72.60
7 8 9 10 11 12 13	MH-578 Base MH-577 Base MH-576 Base MH-575 Base O-68 Base MH-582 Base MH-583 Base MH-583 Base MH-583 Base MH-584 Base MH-584 Base MH-585 Base	Rm Rm Rm Rm Rm Rm Rm	1 1 1 1 2 2	16.4 19.7 31.8 33.2 31.3 36.3			16.40 19.70 31.80 33.20 31.30 72.60
7 8 9 10 11 12 13 14	MH-578 Base MH-577 Base MH-576 Base MH-575 Base O-68 Base O-68 Base MH-582 Base MH-582 Base MH-584 Base MH-584 Base MH-584 Base MH-585 Base MH-585 Base MH-585 Base MH-585 Base MH-585 Base	Rm Rm Rm Rm Rm Rm Rm Rm	1 1 1 1 1 2 2	16.4 19.7 31.8 33.2 31.3 36.3 20.9			16.40 19.70 31.80 33.20 31.30 72.60 41.80
7 8 9 10 11 12 13 14	MH-578 Base MH-577 Base MH-576 Base MH-575 Base O-68 Base MH-582 Base MH-583 Base MH-583 Base MH-583 Base MH-584 Base MH-584 Base MH-585 Base MH-585 Base MH-585 Base MH-586	Rm	1 1 1 1 1 2 2 2	16.4 19.7 31.8 33.2 31.3 36.3 20.9 17.4			16.40 19.70 31.80 33.20 31.30 72.60 41.80 34.80 27.60
7 8 9 10 11 12 13 14 15	MH-578 Base MH-577 Base MH-576 Base MH-575 Base O-68 Base O-68 Base MH-582 Base MH-583 Base MH-583 Base MH-583 Base MH-584 Base MH-584 Base MH-586 Base MH-586 Base MH-586 Base MH-587 Base O-69	Rm	1 1 1 1 2 2 2 2 2 2	16.4 19.7 31.8 33.2 31.3 36.3 20.9 17.4 13.8 28.4			16.40 19.70 31.80 33.20 31.30 72.60 41.80 34.80 27.60 56.80
7 8 9 10 11 12 13 14 15 16	MH-578 Base MH-577 Base MH-576 Base MH-575 Base O-68 Base MH-582 Base MH-583 Base MH-583 Base MH-583 Base MH-584 Base MH-584 Base MH-585 Base MH-585 Base MH-585 Base MH-586 Base MH-587 Base O-69 Base MH-618	Rm	1 1 1 1 2 2 2 2 2 2	16.4 19.7 31.8 33.2 31.3 36.3 20.9 17.4 13.8 28.4 9			16.40 19.70 31.80 33.20 31.30 72.60 41.80 27.60 56.80 18.00 43.20
7 8 9 10 11 12 13 14 15 16 17	MH-578 Base MH-577 Base MH-576 Base MH-575 Base O-68 Base O-68 Base MH-582 Base MH-583 Base MH-583 Base MH-584 Base MH-584 Base MH-585 Base MH-585 Base MH-585 Base MH-585 Base MH-586 Base MH-587 Base O-69 Base MH-618 Base	Rm R	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16.4 19.7 31.8 33.2 31.3 36.3 20.9 17.4 13.8 28.4 9 21.6			16.40 19.70 31.80 33.20 31.30 72.60 41.80 34.80 27.60 56.80 18.00 43.20 25.80
7 8 9 10 11 12 13 14 15 16 17	MH-578 Base MH-577 Base MH-576 Base MH-575 Base O-68 Base O-68 Base MH-582 Base MH-582 Base MH-583 Base MH-583 Base MH-584 Base MH-584 Base MH-584 Base MH-585 Base MH-585 Base MH-585 Base MH-585 Base MH-586 Base MH-587 Base O-69 Base MH-618 Base	Rm	1 1 1 1 2 2 2 2 2 2	16.4 19.7 31.8 33.2 31.3 36.3 20.9 17.4 13.8 28.4 9 21.6			16.40 19.70 31.80 33.20 31.30 72.60 41.80 27.60 56.80 18.00 43.20
7 8 9 10 11 12 13 14 15 16 17 18 19 20	MH-578 Base MH-577 Base MH-576 Base MH-575 Base O-68 Base O-68 Base MH-582 Base MH-583 Base MH-583 Base MH-584 Base MH-584 Base MH-585 Base MH-585 Base MH-587 Base O-69 Base MH-618 Base MH-618 Base MH-618 Base	Rm R	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16.4 19.7 31.8 33.2 31.3 36.3 20.9 17.4 13.8 28.4 9 21.6			16.40 19.70 31.80 33.20 31.30 72.60 41.80 34.80 27.60 56.80 18.00 43.20 25.80

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	MH-622 Base	Rm	2	10.1			20.20
	MH-623 Base	Rm	2	41.4			82.80
24	0-70						02.00
	Base MH-366	Rm	2	23.8			47.60
	Base	Rm	1	24.8			24.80
	MH-258 Base	Rm	1	52			52.00
27	MH-259						
	Base MH-260	Rm	1	28.1			28.10
	Base	Rm	1	101.5			101.50
	Road-24/6 Mangaladevi Temple Road		Side	2			
1	MH-223 to MH-224 Base	Rm	2	92.7			185.40
	MH-224 to MH-225			92.1			
	Base MH-225 to MH-226	Rm	2	56			112.00
	Base	Rm	2	65.3			130.60
	MH-226 to MH-257 Base	Rm	2	145.2			290.40
5	MH-207 to MH-208						
	Base MH-208 to MH-209	Rm	2	48			96.00
	Base	Rm	2	37.2			74.40
7	MH-209 to MH-210 Base	Rm	2	22.3			44.60
	MH-210 to MH-211	D.:					4.40.40
	Base MH-211 to MH-212	Rm	2	71.7			143.40
	Base MH-212 to MH-213	Rm	2	35.3			70.60
	Base	Rm	2	85.6			171.20
	MH-213 to MH-214 Base	Rm	2	55.1			110.20
12	MH-214 to MH-215	IXIII					
	Base MH-215 to MH-216	Rm	2	64.3			128.60
	Base	Rm	2	101.3			202.60
	MH-216 to MH-256 Base	Rm	2	36.8			73.60
15	MH-256 to O-62						
	Base MH-218 to MH-219	Rm	2	40.5			81.00
	Base	Rm	2	50.7			101.40
	MH-219 to MH-220 Base	Rm	2	34.9			69.80
	MH-220 to MH-221 Base	Rm	2	25.1			50.20
	MH-221 to MH-222	IXIII					
	Base	Rm	2	85.8			171.60
	Road 25/7 Monkeystand New Road			Sides	1		
	MH-564 Base	Rm	1	80.8			80.80
2	MH-565						
	Base MH-566	Rm	1	17.9			17.90
	Base	Rm	1	43.3			43.30
	MH-567 Base	Rm	1	120.8			120.80
5	0-34						
	Base MH-613	Rm	1	9.7			9.70
	Base	Rm	1	72.9			72.90
	MH-614 Base	Rm	1	40.1			40.10
	MH-568 Base	Rm	1	49.2			49.20
9	MH-309						
	Base 0-34	Rm	1	53.2			53.20
	Base	Rm	1	54.8			54.80
	MH-569 Base	Rm	1	52.7			52.70
12	MH-570						
	Base MH-567	Rm	1	36.1			36.10
	Base	Rm	1	17.1			17.10
	Road 26/8 Jeppu Market Road			Sides	2		
1	MH-229	Б.	_				0.40.40
	Base MJ-230	Rm	2	121.2			242.40

Sr. No.	Description	Unit Rm	No's	L 62.8	В	Н	Qty.
3	Base MH-605	KIII		02.0			125.60
4	Base 0-66	Rm	2	136			272.00
	Base	Rm	2	12.8			25.60
5	MH-608 Base	Rm	2	21.6			43.20
6	MH-609 Base	Rm	2	38.2			76.40
				Sides	2		7 01.10
1	Road 27/9 Gujjarkere Road MH-234 to MH-235						
2	Base MH-235 to MH-236	Rm	2	16.9			33.80
3	Base MH-236 to MH-237	Rm	2	29.4			58.80
	Base	Rm	2	70.4			140.80
4	MH-237 to MH-238 Base	Rm	2	68.4			136.80
5	MH-238 to MH-239 Base	Rm	2	19.1			38.20
6	MH-239 to MH-240	Rm	2	37.7			
7	Base MH-240 to MH-241						75.40
8	Base MH-241 to MH-242	Rm	2	21.3			42.60
9	Base MH-242 to MH-591	Rm	2	25.9			51.80
	Base	Rm	2	31.2			62.40
10	MH-591 to MH-246 Base	Rm	2	48.3			96.60
11	MH-246 to MH-245 Base	Rm	2	31			62.00
12	MH-245 to O-65 Base	Rm	2	39.4			78.80
13	MH-592 to MH-593						
14	Base MH-593 to MH-594	Rm	2	37.3			74.60
15	Base MH-594 to MH-595	Rm	2	4.1			8.20
	Base MH-595 to MH-596	Rm	2	58.3			116.60
	Base	Rm	2	56.8			113.60
17	MH-596 to MH-597 Base	Rm	2	3.1			6.20
18	MH-597 to MH-598 Base	Rm	2	41.5			83.00
19	MH-598 to MH-599		2	42.3			
20	Base MH-599 to MH-600	Rm					84.60
21	Base MH-600 to MH-601	Rm	2	43.3			86.60
22	Base MH-601 to MH-602	Rm	2	21.7			43.40
	Base	Rm	2	62.1			124.20
23	MH-602 to MH-603 Base	Rm	2	7.4			14.80
24	MH-603 to O-64 Base	Rm	2	72.7			145.40
25	MH-229 to MH-230 Base	Rm	2	62.8			125.60
26	MH-230 to MH-231						
27	Base MH-231 to MH-589	Rm	2	20.1			40.20
28	Base MH-589 to MH-232	Rm	2	37.5			75.00
	Base MH-232 to O-63	Rm	2	57.6			115.20
	Base	Rm	2	29.2			58.40
30	MH-607 to MH-608 Base	Rm	2	21.6			43.20
31	MH-608 to MH-609 Base	Rm	2	38.2			76.40
32	MH-609 to MH-610		2				
33	Base MH-610 to O-67	Rm		101.6			203.20
	Base	Rm Rm	2	41.6			83.20 10068.00
	Consider Chamber @10m C/C distance Total no. Of covers	Nos.		Total Qty.			1007.00 1007.00
	. 500 01 001010	.103.		. Otal Wily.			1007.00
34	P/F FRP Water gully cover with frame (25T) 600mmx500 mm at level footpath. (Rate analysis attached)						
	Flush Footpath with Carriageway						

L C C C C C C C C C	Road No.2/19-Old Kent Road .HS ch.180.0 to Ch.230.0 ch.460.0 to Ch.480.0 ch.690.0 to Ch.710.0 ch.770.0 to Ch.770.0 ch.770.0 to Ch.790.0 ch.75.0 to Ch.80.0 ch.195.0 to Ch.213.0 ch.195.0 to Ch.213.0 ch.196.0 to Ch.50.0 ch.100.0 to Ch.780.0 ch.100.0 to Ch.55.0 ch.100.0 to Ch.55.0 ch.100.0 to Ch.170.0 ch.170.0 to Ch.225.0 ch.100.0 to Ch.200.0 ch.25.0 to Ch.200.0 ch.25.0 to Ch.200.0 ch.26.0 to Ch.200.0 ch.270.0 to Ch.200.0	Rm R	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 20 40 20 10 5 18 40 45 70 55 65			50.00 20.00 20.00 40.00 20.00 10.00 5.00 40.00 45.00 70.00 55.00 65.00
C C C C C C C C C C C C C C C C C C C	Ch. 180.0 to Ch. 230.0 Ch. 460.0 to Ch. 480.0 Ch. 690.0 to Ch. 710.0 Ch. 770.0 to Ch. 770.0 Ch. 770.0 to Ch. 790.0 Ch. 770.0 to Ch. 70.0 Ch. 75.0 to Ch. 80.0 Ch. 195.0 to Ch. 213.0 Ch. 740.0 to Ch. 780.0 Ch. 740.0 to Ch. 780.0 Ch. 10.0 to Ch. 55.0 Ch. 100.0 to Ch. 170.0 Ch. 170.0 to Ch. 220.0 Ch. 180.0 to Ch. 290.0 Ch. 180.0 to Ch. 290.0 Ch. 180.0 to Ch. 200.0 Ch. 200.0 to Ch. 30.0 Ch. 30.0 to Ch. 30.0 Ch. 50.0 to Ch. 150.0 Ch. 128.0 to Ch. 150.0 Ch. 128.0 to Ch. 150.0 Ch. 128.0 to Ch. 150.0 Ch. 200.0 to Ch. 200.0 Ch. 200.0 to Ch. 30.0 Ch. 200.	Rm R	1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 40 20 10 5 18 40 45 70 55 65			20.00 20.00 40.00 20.00 10.00 5.00 18.00 40.00 45.00 70.00 55.00
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C C C C C C C C C C C C C C C C C C C	Ch.770.0 to Ch.790.0 RHS Ch.60.0 to Ch.70.0 Ch.75.0 to Ch.80.0 Ch.75.0 to Ch.213.0 Ch.740.0 to Ch.780.0 Road No.3/20-Pandeshwar New Road RHS Ch.10.0 to Ch.55.0 Ch.170.0 to Ch.170.0 Ch.170.0 to Ch.225.0 Ch.170.0 to Ch.225.0 Ch.125.0 to Ch.290.0 Ch.80 Ch.150.0 to Ch.220.0 Road No.4/22-Bolar Fisheries College Road CH.S Ch.0.0 to Ch.30.0 Ch.50.0 to Ch.150.0 Ch.128.0 to Ch.150.0	Rm R	1 1 1 1 1 1 1 1 1 1 1 1	20 10 5 18 40 45 70 55 65			20.00 10.00 5.00 18.00 40.00 45.00 70.00 55.00
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C C C C C C C C C C C C C C C C C C C	Ch. 60.0 to Ch. 70.0 Ch. 75.0 to Ch. 80.0 Ch. 195.0 to Ch. 213.0 Ch. 195.0 to Ch. 213.0 Ch. 740.0 to Ch. 780.0 Coad No. 3/20-Pandeshwar New Road RHS Ch. 10.0 to Ch. 55.0 Ch. 100.0 to Ch. 170.0 Ch. 170.0 to Ch. 225.0 Ch. 225.0 to Ch. 290.0 Ch. 25.0 to Ch. 290.0 Ch. 25.0 to Ch. 220.0 Ch. 25.0 to Ch. 20.0 Ch. 25.0 to Ch. 30.0 Ch. 25.0 to Ch. 30.0 Ch. 25.0 to Ch. 105.0 Ch. 25.0 to Ch. 150.0	Rm Rm Rm Rm Rm Rm Rm Rm	1 1 1 1 1 1 1 1 1	5 18 40 45 70 55 65			5.00 18.00 40.00 45.00 70.00 55.00
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C C C C C C C C C C C C C C C C C C C	Ch.195.0 to Ch.213.0 Ch.740.0 to Ch.780.0 Road No.3/20-Pandeshwar New Road CHS Ch.10.0 to Ch.55.0 Ch.100.0 to Ch.170.0 Ch.170.0 to Ch.225.0 Ch.225.0 to Ch.290.0 CHS Ch.150.0 to Ch.220.0 Road No.4/22-Bolar Fisheries College Road CHS Ch.0.0 to Ch.30.0 Ch.50.0 to Ch.105.0 Ch.128.0 to Ch.150.0 Ch.128.0 to Ch.150.0 Ch.108.0 to Ch.150.0 Ch.109.0 to Ch.150.0	Rm Rm Rm Rm Rm Rm Rm	1 1 1 1 1 1 1 1 1	18 40 45 70 55 65			18.00 40.00 45.00 70.00 55.00
C C C C C C C C C C C C C C C C C C C	Ch.740.0 to Ch.780.0 Road No.3/20-Pandeshwar New Road RHS Ch.10.0 to Ch.55.0 Ch.170.0 to Ch.170.0 Ch.170.0 to Ch.225.0 Ch.225.0 to Ch.290.0 CHS Ch.150.0 to Ch.220.0 Road No.4/22-Bolar Fisheries College Road RHS Ch.0.0 to ch.30.0 Ch.50.0 to Ch.105.0 Ch.128.0 to Ch.150.0 Ch.128.0 to Ch.150.0 Ch.128.0 to Ch.150.0 Ch.128.0 to Ch.150.0	Rm Rm Rm Rm Rm Rm	1 1 1 1 1 1 1 1	45 70 55 65			45.00 70.00 55.00
R C C C C C C C C C C C C C C C C C C C	Ch. 10.0 to Ch.55.0 Ch.10.0 to Ch.170.0 Ch.170.0 to Ch.225.0 Ch.125.0 to Ch.225.0 Ch.125.0 to Ch.290.0 Ch.150.0 to Ch.220.0 Ch.150.0 to Ch.220.0 Ch.150.0 to Ch.30.0 Ch.50.0 to Ch.105.0 Ch.50.0 to Ch.105.0 Ch.128.0 to Ch.150.0	Rm Rm Rm Rm Rm	1 1 1 1	70 55 65			70.00 55.00
C C C C C C C C C C C C C C C C C C C	Ch.10.0 to Ch.55.0 Ch.100.0 to Ch.170.0 Ch.170.0 to Ch.225.0 Ch.225.0 to Ch.290.0 Ch.225.0 to Ch.220.0 Ch.150.0 to Ch.220.0 Ch.00 to Ch.220.0 Ch.00 to Ch.200.0 Ch.00 to Ch.30.0 Ch.50.0 to Ch.105.0 Ch.108.0 to Ch.150.0	Rm Rm Rm Rm Rm	1 1 1 1	70 55 65			70.00 55.00
C C C C C C C C C C C C C C C C C C C	Ch.100.0 to Ch.170.0 Ch.170.0 to Ch.225.0 Ch.225.0 to Ch.290.0 Ch.25.0 to Ch.220.0 Ch.26.0 to Ch.220.0 Ch.26.0 to Ch.220.0 Ch.27.0 to Ch.20.0 Ch.2	Rm Rm Rm Rm Rm	1 1 1 1	70 55 65			70.00 55.00
C C C C C C C C C C C C C C C C C C C	Ch.170.0 to Ch.225.0 Ch.225.0 to Ch.290.0 JHS Ch.150.0 to Ch.220.0 Road No.4/22-Bolar Fisheries College Road RHS Ch.0.0 to ch.30.0 Ch.50.0 to Ch.105.0 Ch.50.0 to Ch.150.0 Road No.5/23-Milihithuli Road	Rm Rm Rm Rm	1 1	55 65			55.00
C C C C C C C C C C C C C C C C C C C	Ch.225.0 to Ch.290.0 HS Ch.150.0 to Ch.220.0 Road No.4/22-Bolar Fisheries College Road CHS Ch.0.0 to ch.30.0 Ch.50.0 to Ch.105.0 Ch.128.0 to Ch.150.0 Road No.5/23-Milihithuli Road	Rm Rm Rm Rm	1	65			
L C C C C C C C C C C C C C C C C C C C	HS Ch.150.0 to Ch.220.0 Road No.4/22-Bolar Fisheries College Road HS Ch.0.0 to ch.30.0 Ch.50.0 to Ch.105.0 Ch.128.0 to Ch.150.0 Road No.5/23-Milihithuli Road	Rm Rm Rm					
R R C C C C C C C C C C C C C C C C C C	Road No.4/22-Bolar Fisheries College Road RHS Ch.0.0 to ch.30.0 Ch.50.0 to Ch.105.0 Ch.128.0 to Ch.150.0 Road No.5/23-Milihithuli Road	Rm Rm		70			
R C C C C C C C C C	Ch.0.0 to ch.30.0 Ch.50.0 to Ch.105.0 Ch.128.0 to Ch.150.0 Road No.5/23-Milihithuli Road	Rm	1				70.00
C C C C C C C	Ch.0.0 to ch.30.0 Ch.50.0 to Ch.105.0 Ch.128.0 to Ch.150.0 Road No.5/23-Milihithuli Road	Rm	1				
C C C C C	Ch.50.0 to Ch.105.0 Ch.128.0 to Ch.150.0 Road No.5/23-Milihithuli Road	Rm	1	00			00.00
C R L C C	Ch.128.0 to Ch.150.0 Road No.5/23-Milihithuli Road IHS		1	30 55		 	30.00 55.00
R L C C	Road No.5/23-Milihithuli Road .HS	13111	1	22			22.00
L C C	HS		'	22			22.00
C	Ch.0.0 to Ch.20.0						
С		Rm	1	20	_		20.00
	Ch.48.0 to Ch.52	Rm	1	4			4.00
10	Ch.118.0 to Ch.124.0	Rm	1	6		<u> </u>	6.00
	Ch.134.0 to Ch.180.0	Rm	1	46			46.00
	Ch.212.0 to Ch.250.0 Ch.318.0 to Ch.345.0	Rm Rm	1	38 27			38.00 27.00
	Ch.355.0 to Ch.368.0	Rm	1	13			13.00
	Ch.375.0 to Ch.400.0	Rm	1	25			25.00
	Ch.400.0 t0 Ch.420.0	Rm	1	20			20.00
	Ch.472.0 to Ch.480.0	Rm	1	8			8.00
	Ch.485.0 to Ch.495.0	Rm	1	10			10.00
	Ch.535.0 to Ch.570.0	Rm	1	35			35.00
	Ch.580.0 to Ch.590.0 Ch.590.0 to Ch.595.0	Rm Rm	1	10 5			10.00 5.00
	Ch.595.0 to Ch.605.0	Rm	1	10			10.00
	Ch.610.0 to Ch.645.0	Rm	1	35			35.00
	Ch.645.0 to Ch.670.0	Rm	1	25			25.00
С	Ch.675.0 to Ch.740.0	Rm	1	65			65.00
	RHS						
	Ch.0.0 to Ch.70.00	Rm	1	70		1	70.00
	Ch.70.0 to ch.115.0 Ch.115.0 to ch.135.0	Rm Rm	1	45 20		 	45.00 20.00
	Ch.180.0 to Ch.190.0	Rm	1	10			10.00
	Ch.235.0 to Ch.240.0	Rm	1	5			5.00
С	Ch.245.0 to ch.300.0	Rm	1	55			55.00
	Ch.300.00 to Ch.320.0	Rm	1	20			20.00
	Ch.340.0 to Ch.358.0	Rm	1	18			18.00
	Ch.378.0 to ch.380.0 Ch.420.0 to ch. 440.0	Rm Rm	1	20 20		 	2.00
	Ch.460.0 to Ch.474.0	Rm	1	14			14.00
	Ch.474.0 to Ch.528.0	Rm	1	54			54.00
	Ch.528.0 to Ch.550.0	Rm	1	22			22.00
	Ch.605.0 to Ch.630.0	Rm	1	25	_		25.00
	Ch.640.0 to Ch.660.0	Rm	1	20			20.00
	Ch.670.0 to ch.740.0	Rm	1	70		 	70.00
	Ch.758.0 to Ch.762.0 Road No.7/25-Monkeystand New Road	Rm	1	4		—	4.00 0.00
	HS						0.00
	Ch.28.0 to Ch.30.0	Rm	1	2			2.00
С	Ch.100.0 to Ch.160.0	Rm	1	60			60.00
	Ch.195.0 to Ch.230.0	Rm	1	35	-		35.00
	Ch.250.0 to Ch.270.0	Rm	1	20		<u> </u>	20.00
	Ch.290.0 to Ch.295.0	Rm	1	5		<u> </u>	5.00
	Ch.295.0 to Ch.318.0 Ch.325.0 to Ch.355.0	Rm Rm	1	23 30		—	23.00 30.00
	Ch.395.0 to Ch.440.0	Rm	1	45			45.00
	Ch.458.0 to Ch.470.0	Rm	1	12			12.00
С	Ch.470.0 to Ch.508.0	Rm	1	38			38.00
	Ch.530.0 to Ch.550.0	Rm	1	20			20.00
	RHS						
	Ch.358.0 to Ch.410.0	Rm	1	52		<u> </u>	52.00
	Ch.445.0 to Ch.475.0	Rm	1	30			30.00
	Road No.8/26-Jeppu Market Road .HS						+
	Ch.198.0 to Ch.212.0	Rm	1	14			14.00
	71. 196.0 to C11.212.0	IXIII	1	14			14.00
	Ch.190.0 to Ch.212.0	Rm	1	22			22.00
	Road No.9/27-Gujjarkere Road						
L	.HS Ch.88.0 to Ch.98.0						10.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.565.0 to Ch.576.0	Rm	1	11			11.00
	RHS Ch.25.0 to Ch.35.0	Rm	1	10			10.00
							1950.00
	Consider @10m C/C distance of M.H.Cover	Nos.					195.00
35	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						
	Road No.1/18-Old Port Road						
	LHS Ch.80.0 to Ch.95.0	Dm	1	15			
	Road No.2/19-Old Kent Road	Rm	<u>'</u>	15			
	LHS						
	Ch.180.0 to Ch.230.0 Ch.460.0 to Ch.480.0	Rm Rm	1	50 20			50.00 20.00
	Ch.690.0 to Ch.710.0	Rm	1	20			20.00
	Ch.730.0 to Ch.770.0	Rm	1	40			40.00
	Ch.770.0 to Ch.790.0 RHS	Rm	1	20			20.00
	Ch.60.0 to Ch.70.0	Rm	1	10			10.00
	Ch.75.0 to Ch.80.0	Rm	1				5.00
	Ch.195.0 to Ch.213.0 Ch.740.0 to Ch.780.0	Rm Rm	1	18 40			18.00 40.00
	Road No.3/20-Pandeshwar New Road		<u> </u>				.5.50
	RHS Ch.10.0 to Ch.55.0	Dm	1	45			45.00
	Ch.10.0 to Ch.170.0 Ch.100.0 to Ch.170.0	Rm Rm	1	45 70			45.00 70.00
	Ch.170.0 to Ch.225.0	Rm	1	55			55.00
	Ch.225.0 to Ch.290.0	Rm	1 0	65 0			65.00
	Ch.150.0 to Ch.220.0	Rm	1	70			70.00
	Road No.4/22-Bolar Fisheries College Road						
	RHS Ch.0.0 to ch.30.0	Rm	1	30			30.00
	Ch.50.0 to Ch.105.0	Rm	1				55.00
	Ch.128.0 to Ch.150.0	Rm	1	22			22.00
	Road No.5/23-Milihithuli Road LHS						
	Ch.0.0 to Ch.20.0	Rm	1	20			20.00
	Ch.48.0 to Ch.52	Rm	1	4			4.00
	Ch.118.0 to Ch.124.0 Ch.134.0 to Ch.180.0	Rm Rm	1	6 46			6.00 46.00
	Ch.212.0 to Ch.250.0	Rm	1	38			38.00
	Ch.318.0 to Ch.345.0	Rm	1	27			27.00
	Ch.355.0 to Ch.368.0 Ch.375.0 to Ch.400.0	Rm Rm	1	13 25			13.00 25.00
	Ch.400.0 t0 Ch.420.0	Rm	1	20			20.00
	Ch.472.0 to Ch.480.0 Ch.485.0 to Ch.495.0	Rm Rm	1	8 10			8.00 10.00
	Ch.535.0 to Ch.570.0	Rm	1	35			35.00
	Ch.580.0 to Ch.590.0	Rm	1				10.00
	Ch.590.0 to Ch.595.0 Ch.595.0 to Ch.605.0	Rm Rm	1	5 10			5.00 10.00
	Ch.610.0 to Ch.645.0	Rm	1				35.00
	Ch.645.0 to Ch.670.0	Rm	1	25			25.00
	Ch.675.0 to Ch.740.0 RHS	Rm	1	65			65.00
	Ch.0.0 to Ch.70.00	Rm	1	70			70.00
	Ch.70.0 to ch.115.0 Ch.115.0 to ch.135.0	Rm Rm	1				45.00 20.00
	Ch.115.0 to Ch.135.0 Ch.180.0 to Ch.190.0	Rm	1	10			10.00
	Ch.235.0 to Ch.240.0	Rm	1	5			5.00
	Ch.245.0 to ch.300.0 Ch.300.00 to Ch.320.0	Rm Rm	1	55 20			55.00 20.00
	Ch.340.0 to Ch.358.0	Rm	1	18			18.00
	Ch.378.0 to ch.380.0	Rm	1				2.00
	Ch.420.0 to ch. 440.0 Ch.460.0 to Ch.474.0	Rm Rm	1	20 14			20.00 14.00
	Ch.474.0 to Ch.528.0	Rm	1	54			54.00
	Ch.528.0 to Ch.550.0	Rm	1				22.00
	Ch.605.0 to Ch.630.0 Ch.640.0 to Ch.660.0	Rm Rm	1				25.00 20.00
	Ch.670.0 to ch.740.0	Rm	1	70			70.00
	Ch.758.0 to Ch.762.0 Road No.7/25-Monkeystand New Road	Rm	1	4			4.00
	LHS		<u> </u>				
	Ch.28.0 to Ch.30.0	Rm	1	2			2.00
	Ch.100.0 to Ch.160.0 Ch.195.0 to Ch.230.0	Rm Rm	1				60.00 35.00
	Ch.195.0 to Ch.270.0 Ch.250.0 to Ch.270.0	Rm	1				20.00
	Ch.290.0 to Ch.295.0	Rm	1	5			5.00

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.295.0 to Ch.318.0 Ch.325.0 to Ch.355.0	Rm	1 1	23			23.00
	Ch.395.0 to Ch.440.0	Rm Rm	1	30 45			30.00 45.00
	Ch.458.0 to Ch.470.0	Rm	1	12			12.00
	Ch.470.0 to Ch.508.0	Rm	1	38			38.00
	Ch.530.0 to Ch.550.0	Rm	1	20			20.00
	RHS						
	Ch.358.0 to Ch.410.0	Rm	1	52			52.00
	Ch.445.0 to Ch.475.0	Rm	1	30			30.00
	Road No.8/26-Jeppu Market Road LHS						
	Ch.198.0 to Ch.212.0	Rm	1	14			14.00
	RHS	1311		'-			14.00
	Ch.190.0 to Ch.212.0	Rm	1	22			22.00
	Road No.9/27-Gujjarkere Road						
	LHS						
	Ch.88.0 to Ch.98.0	Rm	1				10.00
	Ch.565.0 to Ch.576.0	Rm	1	11			11.00
	RHS Ch.25.0 to Ch.35.0	Rm	1	10			10.00
	Total No. Of Gratings	Nos.	-	10			195.00
	Total No. Of Gratings	Nos.			Total Qty.		133.00
			Nos.	Kg/No.	Kg		Quintal
	Consider 5% of Qty		10.00	150	1500		15
	•						
36	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 (P.No. 74/I.No.11.52 of PWD SR 2018-19)						
	Water Pipe and OFC Pipe	Noo	17				47.00
	2/19 - Old Kent Road 3/20 - Pandeshwar Road	Nos.	17 7				17.00 7.00
	4/22 - Bolar Fisheries Road	Nos.	5				5.00
	5/23 - Milihithuli Road	Nos.	17				17.00
	6/24 - Mangaladevi Temple Road	Nos.	14				14.00
	7/25 - Monkey Stand New Road	Nos.	13				13.00
	8/26 - Jeppu Market Road	Nos.	6				6.00
	9/27 - Gujjarkere Road	Nos.	13				13.00 92.00
	Consider 10% gty of Total	Nos.					10
	ounded 1070 qty of Fotal	1100.					1
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 testing etc as directed by the Engineer in charge (page No.41, Item No.7, KUWSDB SOR 2016-17)						
	Footpath Read No. 2/40 Old Kent Bood						
	Road No.2/19-Old Kent Road LHS						+
	Ch.0.0 to Ch.150.0	Rm	1	150			150
	Ch.165.0 to Ch.180.0	Rm	1	15			15
	Ch.230.0 to Ch.440.0	Rm	1	210			210
	Ch.450.0 to Ch.530.0	Rm	1	80			80
	Ch.540.0 to Ch.570.0 Ch.580.0 to Ch.730.0	Rm Rm	1	30 150			30 150
	RHS	KIII	1	150			150
	Ch.0.0 to Ch.130.0	Rm	1	130			130
	Ch.130.0 to Ch.740.0	Rm	1	610			610
	Road No.3/20-Pandeshwar New Road						
	RHS						
	Ch.0.0 to Ch.170.0	Rm	1	170			170
	Ch.175.0 to Ch.205.0 Road No.4/22-Bolar Fisheries College Road	Rm	1	30			30
	LHS						+
	Ch.0.0 to Ch.150.0	Rm	1	150			150
	RHS						
	Ch.105.0 to Ch.125.0	Rm	1	20			20
	Road No.5/23-Milihithuli Road						
	LHS						
	Ch.135.0 to Ch.180.0	Rm	1	45			45
	Ch.190.0 to Ch.230.0 Ch.320.0 to Ch.340.0	Rm Rm	1	40 20			20
	Ch.320.0 to Ch.340.0 Ch.355.0 to Ch.370.0	Rm Rm	1	15			15
	Ch.380.0 to Ch.390.0	Rm	1	10			10
	Ch.390.0 to Ch.420.0	Rm	1	30			30
	Ch.560.0 to Ch.570.0	Rm	1	10			10
	Ch.580.0 to Ch.600.0	Rm	1	20			20

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.630.0 to Ch.640.0	Rm	1	20			20
	RHS Ch.190.0 to Ch.210.0	Rm	1	20			20
	Ch.570.0 to Ch.590.0	Rm	1	20			20
	Ch.590.0 to ch.600.0	Rm	1	10			10
	Road No.6/24-Mangaladevi Temple Road						
	LHS						
	Ch.0.0 to Ch.60.0	Rm	1	60			60
	Ch.70.0 to Ch.230.0	Rm	1	160			160
	Ch.260.0 to ch.620.0	Rm	1	360			360
	RHS						
	Ch.0.0 to Ch.620.0	Rm	1	620			620
	Road No.7/25-Monkeystand New Road						
	LHS	D.:		05		ļ	05
	Ch.0.0 to Ch.25.0 Ch.30.0 to Ch.100.0	Rm	1	25 70			25 70
	Ch.160.0 to Ch.180.0	Rm Rm	1	20			20
	Ch.270.0 to Ch.290.0	Rm	1	20			20
	Ch.515.0 to Ch.550.0	Rm	1				35
	RHS	IXIII	'	33			33
	Ch.0.0 to Ch.570.0	Rm	1	570			570
	Road No.8/26-Jeppu Market Road	IXIII	'	370			370
	LHS						
	Ch.0.0 to Ch.195.0	Rm	1	195		1	195
	Ch.210.0 to Ch.220.0	Rm	1	10			10
	RHS	13111	'	10			1 '0
	Ch.0.0 to Ch.200	Rm	1	200			200
	Ch.210.0 to Ch.220.0	Rm	1	10			10
	Road No.9/27-Gujjarkere Road						1
	LHS						1
	Ch.0.00 to Ch.85.00	Rm	1	85			85
	Ch.95.0 to ch.115.0	Rm	1				20
	Ch.125.0 to Ch.560.0	Rm	1	435			435
	Ch.570.0 to Ch.576.0	Rm	1	6			6
	RHS						
	Ch.35.0 to Ch.330.0	Rm	1	295			295
	Ch.330.0 to Ch.576.0	Rm	1	246			246
						Total	5447.00
	Consider @10m c/c distance		Nos.	Rm			
	Nos. Of Pipes		545	1.5			817.50
	Total length of pipe=	Rmt		Total Qty.			817.50
38	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)						
	SWD						
	Same qty as pipe	Nos.	545.00				545.00
		Nos.			Total Qty.	1	545.00
39	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)						
							40000.00
	Lintal Length of SWD	Pm	- 1	10060			
	Total Length of SWD Weep Holes at 1m c/c	Rm Nos/Rm	1	10068			10068.00 10068.00
40		Nos/Rm	1	10068			
40	Weep Holes at 1m c/c 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.	Nos/Rm	1	10068			
1	Weep Holes at 1m c/c 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)	Nos/Rm	1	23			
1 2	Weep Holes at 1m c/c 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 Rmt	16	23 20.5			10068.00
1 2 3	Weep Holes at 1m c/c 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 Rmt Rmt Rmt	16 6	23 20.5 8.2			328 49.2
1 2 3 4	Weep Holes at 1m c/c 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 Rmt Rmt Rmt Rmt	16 6 4	23 20.5 8.2 10.9			328 49.2 43.6
1 2 3 4 5	Weep Holes at 1m c/c 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) 1/18 - Old Port Road 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Millihithuli Road	Rmt Rmt Rmt Rmt Rmt Rmt	16 6 4 16	23 20.5 8.2 10.9 11.4			328 49.2 43.6 182.4
1 2 3 4 5 6	Weep Holes at 1m c/c 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) 1/18 - Old Port Road 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road	Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt	16 6 4 16 13	23 20.5 8.2 10.9 11.4 32.9			328 49.2 43.6 182.4 427.7
1 2 3 4 5 6 7	Weep Holes at 1m c/c 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) 1/18 - Old Port Road 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road	Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt	16 6 4 16 13 12	23 20.5 8.2 10.9 11.4 32.9 15.6			328 49.2 43.2 427.7 187.2
1 2 3 4 5 6 7	Weep Holes at 1m c/c 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) 1/18 - Old Port Road 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road	Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt	16 6 4 16 13	23 20.5 8.2 10.9 11.4 32.9			328 49.2

Sr. No.	Description	Unit	No's	L	В	н	Qty.
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	
	2/19 - Old Kent Road	Rmt	2	790	4	790	4740
	3/20 - Pandeshwar Road	Rmt	4	280	4	280	2240
	4/22 - Bolar Fisheries Road	Rmt	2	155	0	155	310
	5/23 - Milihithuli Road	Rmt	4	760	4	760	6080
	6/24 - Mangaladevi Temple Road	Rmt	4	628	4	628	5024
	7/25 - Monkey Stand New Road	Rmt	4	570	4	570	4560
	8/26 - Jeppu Market Road	Rmt	4	225	4	225	1800
	9/27 - Gujjarkere Road	Rmt	4	576	4	576	4608
	De destinant Olember Level		No. Of	No. Of	No. Of	No. Of	
	Deduction of Chambers length		Pipes	Chambers	Pipes	Chambers	E=(A*B+C* D)*2m chamber
	0/40 Old Kent Bood	Dest	A	B	C	D	length
-	2/19 - Old Kent Road	Rmt	2	27	4	27	-324
-	3/20 - Pandeshwar Road	Rmt	4	10	4 0	10	-160
	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road	Rmt Rmt	2 4	6 26	4	6 26	-24 -416
	6/24 - Mangaladevi Temple Road	Rmt	4	26	4	20	-416
	7/25 - Monkey Stand New Road	Rmt	4	19	4	19	-336
	8/26 - Jeppu Market Road	Rmt	4	8	4	8	-128
	9/27 - Gujjarkere Road	Rmt	4	20	4	20	-320
	S.E. Sajjantoro noda	Rmt		Total Qty.	+	20	27350.00
				rotal Cty.			
42	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		Nos.	RHS	Nos.	LHS	
	2/19 - Old Kent Road	Rmt	1	790	1	790	1580
	3/20 - Pandeshwar Road	Rmt	1	280	1	280	560
	4/22 - Bolar Fisheries Road	Rmt	1	155	1	155	310
	5/23 - Milihithuli Road	Rmt	1	760	1	760	1520
	6/24 - Mangaladevi Temple Road	Rmt	1	628	1	628	1256
	7/25 - Monkey Stand New Road	Rmt	1	570	1	570	1140
	8/26 - Jeppu Market Road	Rmt	1	225	1	225	450
	9/27 - Gujjarkere Road	Rmt	1	576	1	576	1152
	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
	2/19 - Old Kent Road	Rmt	1	27	1	27	-108
	3/20 - Pandeshwar Road	Rmt	1	10	4		-40
	4/22 - Bolar Fisheries Road	Dmt			1	10	
		Rmt	1	6	1	6	-24
	5/23 - Milihithuli Road	Rmt	1	26	1	6 26	-24 -104
	6/24 - Mangaladevi Temple Road	Rmt Rmt	1	26 21	1 1 1	6 26 21	-24 -104 -84
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road	Rmt Rmt Rmt	1 1 1	26 21 19	1 1 1	6 26 21 19	-24 -104 -84 -76
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road	Rmt Rmt Rmt Rmt	1 1 1	26 21 19 8	1 1 1 1	6 26 21 19 8	-24 -104 -84 -76 -32
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road	Rmt Rmt Rmt Rmt Rmt	1 1 1 1	26 21 19 8 20	1 1 1	6 26 21 19	-24 -104 -84 -76 -32 -80
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road	Rmt Rmt Rmt Rmt	1 1 1 1	26 21 19 8	1 1 1 1	6 26 21 19 8	-24 -104 -84 -76 -32
43	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road	Rmt Rmt Rmt Rmt Rmt	1 1 1 1	26 21 19 8 20 Total Qty.	1 1 1 1 1 1	6 26 21 19 8	-24 -104 -84 -76 -32 -80
43	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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.	Rmt Rmt Rmt Rmt Rmt	1 1 1 1	26 21 19 8 20	1 1 1 1	6 26 21 19 8	-24 -104 -84 -76 -32 -80
43	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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)	Rmt Rmt Rmt Rmt Rmt Rmt	1 1 1 1 1	26 21 19 8 20 Total Qty.	1 1 1 1 1 1 1	6 26 21 19 8	-24 -104 -84 -76 -32 -80 7420.00
43	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road	Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26 21 19 8 20 Total Qty. RHS 790	1 1 1 1 1 1 1 1 1 1 1 2 8 790 280 0	6 26 21 19 8	-24 -104 -84 -76 -32 -80 7420.00
43	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road	Rmt	1 1 1 1 1 1 1 1 1 1 1 1	26 21 19 8 20 Total Qty. RHS 790 280 155 760	LHS 790 280 0	6 26 21 19 8	-24 -104 -84 -76 -32 -80 7420.00 1580 560 155 1520
43	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road	Rmt	1 1 1 1 1 1 1 1 1 1 1	26 21 19 8 20 Total Qty. RHS 790 280 155 760 628	1 1 1 1 1 1 1 1 1 1 1 2 80 0 760 628	6 26 21 19 8	-24 -104 -84 -76 -32 -80 7420.00 1580 1580 1550 1520 1256
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Guijarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road	Rmt	1 1 1 1 1 1 1 1 1 1 1 1	26 21 19 8 20 Total Qty. RHS 790 280 280 576 628 570	LHS 790 280 0 760 628 570	6 26 21 19 8	-24 -104 -84 -76 -32 -80 7420.00 1580 560 155 1520 1256 1140
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road	Rmt	1 1 1 1 1 1 1 1 1 1 1 1	26 21 19 8 20 Total Qty. RHS 790 280 155 760 628 570 225	LHS 790 280 0 760 628 570 225	6 26 21 19 8	-24 -104 -84 -76 -32 -80 7420.00 1580 560 155 1520 1256 1140 450
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Guijarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road	Rmt	1 1 1 1 1 1 1 1 1 1 1 1	26 21 19 8 20 Total Qty. RHS 790 280 280 576 628 570	LHS 790 280 0 760 628 570	6 26 21 19 8	-24 -104 -84 -76 -32 -80 7420.00
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road	Rmt	1 1 1 1 1 1 1 1 1 1 1 1	26 21 19 8 20 Total Qty. RHS 790 280 155 760 628 570 225	LHS 790 280 0 760 628 570 225 576	6 26 21 19 8	-24 -104 -84 -76 -32 -80 7420.00 1580 560 155 1520 1256 1140 450 450 7813.00
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road	Rmt	1 1 1 1 1 1 1 1 1 1 1 1	26 21 19 8 20 Total Qty. RHS 790 280 155 760 628 570 225	LHS 790 280 0 760 628 570 225	6 26 21 19 8	-24 -104 -84 -76 -32 -80 7420.00 1580 560 155 1520 1256 1140 450 450 1152 7813.00
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Guijarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road No. of Spacer=Total Length of Pipe / 1.5m 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.	Rmt	1 1 1 1 1 1 1 1 1 1 1 1	26 21 19 8 20 Total Qty. RHS 790 280 155 760 628 570 225 576	LHS 790 280 0 760 628 570 225 576	6 26 21 19 8	-24 -104 -84 -76 -32 -80 7420.00 1580 560 155 1520 1256 1140 450 450 7813.00
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Guijarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Guijarkere Road No. of Spacer=Total Length of Pipe / 1.5m 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)	Rmt	1 1 1 1 1 1 1 1 1 1 1	26 21 19 8 20 Total Qty. RHS 790 280 155 760 628 570 225 576	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 26 21 19 8	-24 -104 -84 -76 -32 -80 7420.00 1580 560 155 1520 1256 1140 450 1152 7813.00 5209.00
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Guijarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Guijarkere Road No. of Spacer=Total Length of Pipe / 1.5m 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) 2/19 - Old Kent Road	Rmt	1 1 1 1 1 1 1 1 1 1 1	26 21 19 8 20 Total Qty. RHS 790 280 628 576 628 576 8RHS 790	LHS 790 280 760 628 570 225 576	6 26 21 19 8	-24 -104 -84 -76 -32 -80 7420.00
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Guijarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Guijarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road	Rmt	1 1 1 1 1 1 1 1 1 1 1 1	26 21 19 8 20 Total Qty. RHS 790 280 628 570 225 576 RHS 790 280	LHS 790 280 Total Qty.	6 26 21 19 8	-24 -104 -84 -76 -32 -80 7420.00
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Guijarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Guijarkere Road No. of Spacer=Total Length of Pipe / 1.5m 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) 2/19 - Old Kent Road	Rmt	1 1 1 1 1 1 1 1 1 1 1	26 21 19 8 20 Total Qty. RHS 790 280 628 576 628 576 8RHS 790	LHS 790 280 760 628 570 225 576	6 26 21 19 8	-24 -104 -84 -76 -32 -80 7420.00

9	7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road	Rmt Rmt	<u>1</u>	570	570		1140
9		KIIIL					450
		Rmt	1	225 576	225 576		450 1152
N	9/21 - Gujjarkere Roau	IXIIIL	- 1	370	370		7968.00
	No. of Spacer=Total Length of Pipe / 1.5m	Nos.		Total Qty.			5312.00
45 s	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.			DUG	LHS		
2	2/19 - Old Kent Road	Rmt	1	RHS 790	790		1580
	3/20 - Pandeshwar Road	Rmt	1	280	280		560
	4/22 - Bolar Fisheries Road	Rmt	1	155	155		310
	5/23 - Milihithuli Road	Rmt	1	760	760		1520
	6/24 - Mangaladevi Temple Road	Rmt	1	628	628		1256
	7/25 - Monkey Stand New Road	Rmt	1	570	570		1140
	8/26 - Jeppu Market Road	Rmt	1	225	225		450
<u>ē</u>	9/27 - Gujjarkere Road	Rmt	1	576	576		1152
l c	Deduction of Chambers length		No. Of	No. Of	No. Of	No. Of	
	<u> </u>		Pipes A	Chambers B	Pipes C	Chambers D	E=(A*B+C* D)*0.6m chamber length
2	2/19 - Old Kent Road	Rmt	1	27	1	26	-31.8
	3/20 - Pandeshwar Road	Rmt	1	10	1	9	
	4/22 - Bolar Fisheries Road	Rmt	1	6	1	5	-6.6
	5/23 - Milihithuli Road	Rmt	1	26	1	25	-30.6
	6/24 - Mangaladevi Temple Road	Rmt	1	21	1	21	-25.2
	7/25 - Monkey Stand New Road	Rmt	1	19	1	19	-22.8
	8/26 - Jeppu Market Road	Rmt	1	8 20	1	8	-9.6
9	9/27 - Gujjarkere Road	Rmt Rmt	1	20	Total Qty.	19	-23.4 7806.60
 		KIIIL			TOTAL GLY.		7000.00
46 c	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 Footpath						
	Road No.2/19-Old Kent Road						
	LHS						
(Ch.0.0 to Ch.150.0	Sqm	1	150.00	3.76		564
(Ch.165.0 to Ch.180.0	Sqm	1	15.00	4.60		69
	Ch.230.0 to Ch.440.0	Sqm	1		3.40		714
	Ch.450.0 to Ch.530.0	Sqm	1	80.00	1.98		158.4
	Ch.540.0 to Ch.570.0	Sqm	1	30.00	1.73		51.9
	Ch.580.0 to Ch.730.0 RHS	Sqm	1	150.00	2.07		310.5
	Ch.0.0 to Ch.130.0	Sqm	1	130.00	2.78		361.4
	Ch.130.0 to Ch.740.0	Sqm	1	610.00	2.76		1439.6
F	Road No.3/20-Pandeshwar New Road	Oqiii	·	010.00	2.00		1400.0
	RHS						
(Ch.0.0 to Ch.170.0	Sqm	1	170.00	1.85		314.5
	Ch.175.0 to Ch.205.0	Sqm	1	30.00	2.20		66
	Road No.4/22-Bolar Fisheries College Road						
	LHS	0		450.00	0.00		404-
	Ch.0.0 to Ch.150.0 RHS	Sqm	1	150.00	2.83		424.5
	Ch.105.0 to Ch.125.0	Sqm	1	20.00	1.65		33
F	Road No.5/23-Milihithuli Road LHS	Sqiii	ı	20.00	1.03		33
	Ch.135.0 to Ch.180.0	Sqm	1	45.00	2.42		108.9
	Ch.190.0 to Ch.230.0	Sqm	1	40.00	5.85		234
	Ch.320.0 to Ch.340.0	Sqm	1	20.00	3.12		62.4
	Ch.355.0 to Ch.370.0	Sqm	1	15.00	2.53		37.95
	Ch.380.0 to Ch.390.0 Ch.390.0 to Ch.420.0	Sqm Sqm	<u>1</u>	10.00 30.00	3.40 3.13		34 93.9
	Ch.390.0 to Ch.420.0 Ch.560.0 to Ch.570.0	Sqm	1	10.00	2.64		26.4
	Ch.580.0 to Ch.600.0	Sqm	1	20.00	1.75		35
	Ch.630.0 to Ch.640.0	Sqm	1	20.00	0.81		16.2
	RHS	'					
C	Ch.190.0 to Ch.210.0	Sqm	1	20.00	4.25		85
	Ch.570.0 to Ch.590.0	Sqm	1	20.00	1.88		37.6
	Ch.590.0 to ch.600.0	Sqm	1	10.00	1.34		13.4
	Road No.6/24-Mangaladevi Temple Road						
	LHS Ch 0.0 to Ch 60.0	C~~-	4	60.00	7.75		405
	Ch.0.0 to Ch.60.0 Ch.70.0 to Ch.230.0	Sqm Sqm	<u>1</u>	60.00 160.00	7.75 5.10		465 816
	Ch 260 0 to ch 620 0	Sam	1.	360 00	4 13 1		
	Ch.260.0 to ch.620.0	Sqm	1	360.00	4.13		1486.8
(C)	Ch.260.0 to ch.620.0 RHS Ch.0.0 to Ch.620.0	Sqm Sqm	1	360.00 620.00	4.13		2833.4

Sr. No.	Description LHS	Unit	No's	L	В	н	Qty.
	Ch.0.0 to Ch.25.0	Sqm	1	25	2.68		67
	Ch.30.0 to Ch.100.0	Sqm	1	70.00	1.85		129.5
	Ch.160.0 to Ch.180.0	Sqm	1	20	3.03		60.6
	Ch.270.0 to Ch.290.0 Ch.515.0 to Ch.550.0	Sqm Sqm	1	20.00 35	2.88		57.6 79.8
	RHS	Sqm	1	33	2.20		79.0
	Ch.0.0 to Ch.570.0	Sqm	1	570.00	2.38		1356.6
	Road No.8/26-Jeppu Market Road						
	LHS						
	Ch.0.0 to Ch.195.0	Sqm	1	195	2.47		481.65
	Ch.210.0 to Ch.220.0	Sqm	1	10	2.90		29
	RHS	0	4	200.00	4.05		046
	Ch.0.0 to Ch.200	Sqm	1	200.00	4.05		810
	Ch.210.0 to Ch.220.0 Road No.9/27-Gujjarkere Road	Sqm	1	10.00	2.20		22
	LHS						1
	Ch.0.00 to Ch.85.00	Sqm	1	85	1.36		115.6
	Ch.95.0 to ch.115.0	Sqm	1	20	4.00		80
	Ch.125.0 to Ch.560.0	Sqm	1	435	4.11		1787.85
	Ch.570.0 to Ch.576.0	Sqm	1	6	3.00		18
	RHS						
	Ch.35.0 to Ch.330.0	Sqm	1	295	2.33		687.35
	Ch.330.0 to Ch.576.0	Sqm	1	246	1.85		455.1
		Sqm			Total Qty.		17130.40
47.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles.						
	Footpath Road No 2/10 Old Kept Bood						
	Road No.2/19-Old Kent Road LHS				+		
	Ch.0.0 to Ch.150.0	Rm	43		3.76		161.68
	Ch.165.0 to Ch.180.0	Rm	4		4.6		18.4
	Ch.230.0 to Ch.440.0	Rm	60		3.4		204
	Ch.450.0 to Ch.530.0	Rm	23		1.98		45.54
	Ch.540.0 to Ch.570.0	Rm	9		1.73		15.57
	Ch.580.0 to Ch.730.0	Rm	43		2.07		89.01
	RHS						
	Ch.0.0 to Ch.130.0	Rm	37		2.78		102.86
	Ch.130.0 to Ch.740.0	Rm	174		2.36		410.64
	Road No.3/20-Pandeshwar New Road						
	RHS Ch.0.0 to Ch.170.0	Rm	40		1.05		00.65
	Ch.175.0 to Ch.205.0	Rm	49 9		1.85 2.2		90.65
	Road No.4/22-Bolar Fisheries College Road	KIII	9		2.2		19.0
	LHS						1
	Ch.0.0 to Ch.150.0	Rm	43		2.83		121.69
	RHS						
	Ch.105.0 to Ch.125.0	Rm	6		1.65		9.9
	Road No.5/23-Milihithuli Road						
	LHS						
	Ch.135.0 to Ch.180.0	Rm	13		2.42		31.46
	Ch.190.0 to Ch.230.0	Rm	11		5.85		64.35
	Ch.320.0 to Ch.340.0	Rm	6		3.12		18.72
	Ch.355.0 to Ch.370.0 Ch.380.0 to Ch.390.0	Rm Rm	3		2.53 3.4		10.12
	Ch.390.0 to Ch.420.0	Rm	9		3.13		28.17
	Ch.560.0 to Ch.570.0	Rm	3		2.64		7.92
	Ch.580.0 to Ch.600.0	Rm	6		1.75		10.5
	Ch.630.0 to Ch.640.0	Rm	6		0.81		4.86
	RHS						
	Ch.190.0 to Ch.210.0	Rm	6		4.25		25.5
	Ch.570.0 to Ch.590.0	Rm	6		1.88		11.28
	Ch.590.0 to ch.600.0	Rm	3		1.34		4.02
	Road No.6/24-Mangaladevi Temple Road						
	LHS						
	Ch.0.0 to Ch.60.0	Rm	17		7.75		131.75
	Ch.70.0 to Ch.230.0	Rm	46		5.1		234.6
	Ch.260.0 to ch.620.0 RHS	Rm	103		4.13		425.39
	Ch.0.0 to Ch.620.0	Rm	177		4.57		808.89
	Road No.7/25-Monkeystand New Road	iXIII	177		7.31		000.08
	LHS						
	Ch.0.0 to Ch.25.0	Rm	7		2.68		18.76
	Ch.30.0 to Ch.100.0	Rm	20		1.85		37
	Ch.160.0 to Ch.180.0	Rm	6		3.03		18.18
	Ch.270.0 to Ch.290.0	Rm	6		2.88		17.28
	Ch.515.0 to Ch.550.0	Rm	10		2.28		22.8
	RHS		0		0		(
	Ch.0.0 to Ch.570.0	Rm	163		2.38		387.9
	Road No.8/26-Jeppu Market Road						
		ì					1
	LHS	_		- 1	~ ·-		
	Ch.0.0 to Ch.195.0	Rm	56		2.47		
	Ch.0.0 to Ch.195.0 Ch.210.0 to Ch.220.0	Rm Rm	56 3		2.47		
	Ch.0.0 to Ch.195.0						138.3 8. 230.8

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Road No.9/27-Gujjarkere Road LHS						
	Ch.0.00 to Ch.85.00	Rm	24		1.36		32.64
	Ch.95.0 to ch.115.0	Rm	6		4		24
	Ch.125.0 to Ch.560.0	Rm	124		4.11		509.64
	Ch.570.0 to Ch.576.0	Rm	2		3		(
	RHS Ch.35.0 to Ch.330.0	Rm	84		2.33		195.72
	Ch.330.0 to Ch.576.0	Rm	70		1.85		129.5
	O1.556.0 to O1.576.0	IXIII	70		1.00	Total	4901.40
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 Road No.2/19-Old Kent Road						
	LHS						
	Ch.180.0 to Ch.230.0	Sqm	1	50	1.38		69.00
	Ch.460.0 to Ch.480.0	Sqm	1	20	1.31		26.20
·	Ch.690.0 to Ch.710.0	Sqm	1	20	2.20		44.00
	Ch.730.0 to Ch.770.0	Sqm	1	40	1.20		48.00
	Ch.770.0 to Ch.790.0	Sqm	1	20	2.58		51.60
	RHS Ch.60.0 to Ch.70.0	Sqm	1	10	2.72		27.20
	Ch.75.0 to Ch.80.0	Sqm	1	5	4.50		22.50
	Ch.195.0 to Ch.213.0	Sqm	1	18	0.91		16.38
	Ch.740.0 to Ch.780.0	Sqm	1	40	0.78		31.20
	Road No.3/20-Pandeshwar New Road						
	RHS Ch.10.0 to Ch.55.0	Cam	1	A.E.	1.10		40.50
	Ch.10.0 to Ch.35.0 Ch.100.0 to Ch.170.0	Sqm Sqm	1	45 70	1.10		49.50 91.70
	Ch.170.0 to Ch.225.0	Sqm	1	55	0.83		45.65
	Ch.225.0 to Ch.290.0	Sqm	1	65	0.30		19.50
	LHS						
	Ch.150.0 to Ch.220.0	Sqm	1	70	0.52		36.40
	Road No.4/22-Bolar Fisheries College Road RHS						
	Ch.0.0 to ch.30.0	Sqm	1	30	0.49		14.70
	Ch.50.0 to Ch.105.0	Sqm	1	55	0.66		36.30
	Ch.128.0 to Ch.150.0	Sqm	1	22	0.73		16.06
	Road No.5/23-Milihithuli Road						
	LHS	Cam	1	20	2.25		45.00
	Ch.0.0 to Ch.20.0 Ch.48.0 to Ch.52	Sqm Sqm	1	20 4	2.25 3.50		45.00 14.00
	Ch.118.0 to Ch.124.0	Sqm	1	6	8.50		51.00
	Ch.134.0 to Ch.180.0	Sqm	1	46	1.28		58.88
	Ch.212.0 to Ch.250.0	Sqm	1	38	1.55		58.90
	Ch.318.0 to Ch.345.0	Sqm	1	27	1.44		38.88
	Ch.355.0 to Ch.368.0	Sqm	1	13	3.40		44.20
	Ch.375.0 to Ch.400.0 Ch.400.0 t0 Ch.420.0	Sqm Sqm	1	25 20.00	1.84 2.85		46.00 57.00
	Ch.472.0 to Ch.480.0	Sqm	1	8.00	1.38		11.04
	Ch.485.0 to Ch.495.0	Sqm	1	10.00	1.90		19.00
	Ch.535.0 to Ch.570.0	Sqm	1	35.00	0.63		22.0
	Ch.580.0 to Ch.590.0	Sqm	1	10.00	3.30		33.00
	Ch.590.0 to Ch.595.0	Sqm	1	5.00	1.33		6.65
	Ch.595.0 to Ch.605.0	Sqm	1	10.00 35.00	0.72 1.02		7.20
	Ch.610.0 to Ch.645.0 Ch.645.0 to Ch.670.0	Sqm Sqm	1	25.00	2.38		35.70 59.50
	Ch.675.0 to Ch.740.0	Sqm	1	65.00	0.83		53.95
	RHS						
	Ch.0.0 to Ch.70.00	Sqm	1	70.00	2.02		141.40
	Ch.70.0 to ch.115.0	Sqm Sqm	1	45.00 20.00	2.64 4.63		118.80 92.60
	Ch.115.0 to ch.135.0 Ch.180.0 to Ch.190.0	Sqm	1	10.00	1.50		15.00
	Ch.235.0 to Ch.240.0	Sqm	1	5.00	3.50		17.50
_	Ch.245.0 to ch.300.0	Sqm	1	55.00	1.85	_	101.7
	Ch.300.00 to Ch.320.0	Sqm	1	20.00	3.30		66.00
	Ch.340.0 to Ch.358.0	Sqm Sqm	1	18.00 2.00	3.56 1.50		64.08
	Ch.378.0 to ch.380.0 Ch.420.0 to ch. 440.0	Sqm Sqm	1	20.00	3.10		3.00 62.00
	Ch.460.0 to Ch.474.0	Sqm	1	14.00	0.64		8.9
	Ch.474.0 to Ch.528.0	Sqm	1	54.00	1.87		100.9
	Ch.528.0 to Ch.550.0	Sqm	1	22.00	0.52		11.4
_	Ch.605.0 to Ch.630.0	Sqm	1	25.00	0.77		19.2
	Ch.640.0 to Ch.660.0	Sqm	1	20.00	0.60		12.00
	Ch.670.0 to ch.740.0	Sqm	1	70.00	1.67		116.90
	Ch.758.0 to Ch.762.0	Sqm	1	4.00	1.08		4.32
	Road No.7/25-Monkeystand New Road	I	l		l		0.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.28.0 to Ch.30.0	Sqm	1	2.00	3.00		6.00
	Ch.100.0 to Ch.160.0 Ch.195.0 to Ch.230.0	Sqm Sqm	1	60.00 35.00	0.73 0.46		43.80 16.10
	Ch.250.0 to Ch.270.0	Sqm	1	20.00	1.80		36.00
	Ch.290.0 to Ch.295.0	Sqm	1	5.00	1.40		7.00
	Ch.295.0 to Ch.318.0	Sqm	1	23	1.04		23.92
	Ch.325.0 to Ch.355.0	Sqm	1	30	0.83		24.90
	Ch.395.0 to Ch.440.0	Sqm	1	45	1.00 0.50		45.00
	Ch.458.0 to Ch.470.0 Ch.470.0 to Ch.508.0	Sqm Sqm	1	12 38	0.50		6.00 28.12
	Ch.530.0 to Ch.550.0	Sqm	1	20	2.05		41.00
	RHS						
	Ch.358.0 to Ch.410.0	Sqm	1	52	1.24		64.48
	Ch.445.0 to Ch.475.0	Sqm	1	30	1.07		32.10
	Road No.8/26-Jeppu Market Road						
	LHS Ch.198.0 to Ch.212.0	Sqm	1	14	1.43		20.02
	RHS	Oqiii			11.10		20.02
	Ch.190.0 to Ch.212.0	Sqm	1	22	0.73		16.06
	Road No.9/27-Gujjarkere Road						
	LHS	_					
	Ch.88.0 to Ch.98.0	Sqm	1	10	0.90		9.00
	Ch.565.0 to Ch.576.0	Sqm	1	11	0.91		10.01
	Ch.25.0 to Ch.35.0	Sqm	1	10	1.00		10.00
	Parking Area		'	10	1.00		10.00
	2/19 - Old Kent Road						
	Ch.30.0 to Ch.90.00	Sqm	1	60	2.40	-	144.00
	6/24 - Mangaladevi Temple Road	0		100	0 1-		202 12
-	Ch.320.0 to CH.440.0 9/27 - Gujjarkere Road	Sqm	1	120	2.47		296.40
	Ch.140.0 to Ch.200.0	Sqm	1	60	2.81		168.60
	Ch.240.0 to Ch.275.0	Sqm	1	35	2.67		93.45
			-				00110
	Table Top paver Block						
	2/19 - Old Kent Road	Sqm	2	12.00	3.00		72.00
	3/20 - Pandeshwar Road	Sqm	2	5.50	3.00		33.00
	4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road	Sqm Sqm	2	5.50 6.20	3.00 3.00		33.00 37.20
	6/24 - Mangaladevi Temple Road	Sqm	2	14.50			87.00
	7/25 - Monkey Stand New Road	Sqm	2	6.20	3.00		37.20
	8/26 - Jeppu Market Road	Sqm	2	11.00	3.00		66.00
	9/27 - Gujjarkere Road	Sqm Sqm	2	6.20	3.00 Total Qty.		37.20 3808.38
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						
	2/19 - Old Kent Road	Cum	2	12.00	7.50	0.15	27.00
	3/20 - Pandeshwar Road	Cum	2	5.50	7.50	0.15	
<u> </u>	4/22 - Bolar Fisheries Road	Cum	2	5.50	7.50	0.15	
-	5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road	Cum Cum	2	6.20 14.50	7.50 7.50	0.15 0.15	
	7/25 - Monkey Stand New Road	Cum	2	6.20	7.50	0.15	
	8/26 - Jeppu Market Road	Cum	2	11.00	7.50	0.15	
	9/27 - Gujjarkere Road	Cum	2	6.20	7.50	0.15	13.95
		Cum			Total Qty.		150.98
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						
	2/19 - Old Kent Road	Cum	2	12.00	7.50	0.04	7.20
	3/20 - Pandeshwar Road	Cum	2	5.50	7.50	0.04	3.30
	4/22 - Bolar Fisheries Road	Cum	2	5.50	7.50	0.04	3.30
-	5/23 - Milihithuli Road	Cum	2	6.20	7.50	0.04	3.72
	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road	Cum Cum	2	14.50 6.20	7.50 7.50	0.04 0.04	8.70 3.72
	8/26 - Jeppu Market Road	Cum	2	11.00		0.04	6.60
	9/27 - Gujjarkere Road	Cum	2	6.20	7.50	0.04	3.72
		Cum			Total Qty.	_	40.26

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
51	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 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) 2/19 - Old Kent Road	Nos.	12				12.00
	3/20 - Pandeshwar Road	Nos.	4				4.00
	4/22 - Bolar Fisheries Road	Nos.	2				2.00
	5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road	Nos.	10				10.00 4.00
—	6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road	Nos.	6				6.00
	8/26 - Jeppu Market Road	Nos.	4				4.00
	9/27 - Gujjarkere Road	Nos.	7				7.00
		Nos.	1		Total Qty.		49.00
52	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 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.						
	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)						
	2/19 - Old Kent Road	Nos.	1				1.00
	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road	Nos. Nos.	1				1.00 1.00
	5/23 - Milihithuli Road	Nos.	1				1.00
	6/24 - Mangaladevi Temple Road	Nos.	1				1.00
	7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road	Nos. Nos.	1				1.00 1.00
	9/27 - Gujjarker Road	Nos.	i		<u> </u>		1.00
		Nos.		Total Qty.		·	8.00
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 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 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. 600MM Circle-TYPE XI (KPWD 18-19,SI No: 24.2.3)						
	2/19 - Old Kent Road	Nos.	21				21.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	3/20 - Pandeshwar Road	Nos.	8				8.00
	4/22 - Bolar Fisheries Road	Nos.	6				6.00
	5/23 - Milihithuli Road	Nos.	17				17.00
	6/24 - Mangaladevi Temple Road	Nos.	7 8				7.00
	7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road	Nos. Nos.	2				8.00 2.00
	9/27 - Gujjarkere Road	Nos.	12				12.00
	o/21 Guljunere redu	Nos.	12		Total Qty.		81.00
					rotal aty.		000
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 shall be obtained from the supplier. (KPWD 18-19,SI No : 24.3) 2/19 - Old Kent Road 3/20 - Pandeshwar Road	Sqm Sqm	1 1	Area 0.9 0.9			0.90
	4/22 - Bolar Fisheries Road	Sqm	1	0.9			0.90
	5/23 - Milihithuli Road	Sqm	1	0.9			0.90
	6/24 - Mangaladevi Temple Road	Sqm	1	0.9			0.90
	7/25 - Monkey Stand New Road	Sqm	1	0.9			0.90
	8/26 - Jeppu Market Road	Sqm	1	0.9			0.90
	9/27 - Gujjarkere Road	Sqm	1	0.9			0.90
		Sqm			Total Qty.		7.20
55	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.			Area			
	2/19 - Old Kent Road	•					
	2/19 - Olu Kelii Kodu	Sqm	1	2			2.00
	3/20 - Pandeshwar Road	Sqm	1	2			2.00 2.00
	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road	Sqm Sqm Sqm	1 1	2 2 2			2.00 2.00 2.00
	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road	Sqm Sqm Sqm Sqm	1 1 1 1	2 2 2 2			2.00 2.00 2.00 2.00
	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road	Sqm Sqm Sqm Sqm Sqm	1 1 1 1 1	2 2 2 2 2 2			2.00 2.00 2.00 2.00 2.00
	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road	Sqm Sqm Sqm Sqm Sqm Sqm	1 1 1 1 1 1	2 2 2 2 2 2 2			2.00 2.00 2.00 2.00 2.00 2.00
	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road	Sqm Sqm Sqm Sqm Sqm Sqm Sqm	1 1 1 1 1	2 2 2 2 2 2	Total Otv		2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00
56	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road	Sqm Sqm Sqm Sqm Sqm Sqm	1 1 1 1 1 1	2 2 2 2 2 2 2	Total Qty.		2.00 2.00 2.00 2.00 2.00 2.00
56	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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-	Sqm Sqm Sqm Sqm Sqm Sqm Sqm	1 1 1 1 1 1	2 2 2 2 2 2 2	Total Qty.		2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00
56	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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)	Sqm Sqm Sqm Sqm Sqm Sqm Sqm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2	Total Qty.		2.00 2.00 2.00 2.00 2.00 2.00 2.00 16.00
56	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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)	Sqm Sqm Sqm Sqm Sqm Sqm Sqm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2	Total Qty.		2.00 2.00 2.00 2.00 2.00 2.00 2.00 16.00
56	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Nos.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2	Total Qty.		2.00 2.00 2.00 2.00 2.00 2.00 2.00 16.00
56	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Nos.	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 5 3	2 2 2 2 2 2 2	Total Qty.		2.00 2.00 2.00 2.00 2.00 2.00 2.00 16.00
56	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Nos. Nos. Nos. Nos. Nos. Nos.	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 3 3 3 2	2 2 2 2 2 2 2	Total Qty.		2.00 2.00 2.00 2.00 2.00 2.00 2.00 16.00
56	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road	Sqm	1 1 1 1 1 1 1 1 1 1 2 2 2 2 5 3 3 2 2	2 2 2 2 2 2 2	Total Qty.		2.00 2.00 2.00 2.00 2.00 2.00 2.00 16.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00
56	3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road 9/27 - Gujjarkere Road 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) 2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Nos. Nos. Nos. Nos. Nos. Nos.	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 3 3 3 2	2 2 2 2 2 2 2	Total Qty.		2.00 2.00 2.00 2.00 2.00 2.00 2.00 16.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
57	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)						
	2/19 - Old Kent Road	Nos	108				108.00
	3/20 - Pandeshwar Road	Nos	38				38.00
	4/22 - Bolar Fisheries Road	Nos	16				16.00
	5/23 - Milihithuli Road	Nos	80				80.00
	6/24 - Mangaladevi Temple Road	Nos	108				108.00
	7/25 - Monkey Stand New Road	Nos	20				20.00
	8/26 - Jeppu Market Road	Nos	84				84.00
	9/27 - Gujjarkere Road	Nos	96				96.00
		Nos.		Total Qty.			550.00
58	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						
2	2/19 - Old Kent Road		_				
<u>a</u>	Continuos Line-at Edge	Sqm	2	820	0.1		164.00
<u>b</u>	Continuos Line-at Median	Sqm	0	100	0.1		0.00
С	Dash Lines	Sqm	0	492	0.1		0.00
d	Arrow Redetries Cressing	Sqm Sqm	18 6	0.76			13.68 52.08
e f	Pedstrian Crossing Table Top Crossing	Sqm Sqm	1	6.2 12	1.4 16.82		201.84
		Jqiii	'	12	10.02		201.04
3 a	3/20 - Pandeshwar Road Continuos Line-at Edge	Sqm	2	280	0.1		56.00
b	Continuos Line-at Median	Sqm	0	90	0.1		0.00
С	Dash Lines	Sqm	0	168	0.1		0.00
d	Arrow	Sqm	126	0.76	Area/Rm		95.76
е	Pedstrian Crossing	Sqm	3	5.5	1.4		23.10
f	Table Top Crossing	Sqm	1	5.5	16.82		92.51
4	4/22 - Bolar Fisheries Road						
а	Continuos Line-at Edge	Sqm	2	150	0.1		30.00
b	Continuos Line-at Median	Sqm	0		0.1		0.00
С	Dash Lines	Sqm	0	90	0.1		0.00
d	Arrow	Sqm	8	0.76			6.08
e f	Pedstrian Crossing Table Top Crossing	Sqm Sqm	1	5.5 5.5	1.4 16.82		15.40 92.51
5	5/23 - Milihithuli Road						
a	Continuos Line-at Edge	Sqm	2	920	0.1		184.00
b	Continuos Line-at Median	Sqm	0	0	0.1		0.00
С	Dash Lines	Sqm	0	0			0.00
d	Arrow	Sqm	36	0.76			27.36
е	Pedstrian Crossing	Sqm	8	6.2	1.4		69.44
f	Table Top Crossing	Sqm	1	6.2	16.82		104.28
6	6/24 - Mangaladevi Temple Road		_				
<u>a</u>	Continuos Line-at Edge	Sqm	2	830	0.1		166.00
b	Continuos Line-at Median	Sqm	0	830	0.1		0.00
d d	Dash Lines Arrow	Sqm Sqm	2 48	498 0.76	0.1 Area/Rm		99.60 36.48
e e	Pedstrian Crossing	Sqm	40	14.5	1.4		81.20
f	Table Top Crossing	Sqm	1	14.5	16.82		243.89
-		- 4	-				
7	7/25 - Monkey Stand New Road Ch.0 to Ch.478.0						
а	Continuos Line-at Edge	Sqm	2	539	0.1		107.80
b b	Continuos Line-at Loge Continuos Line-at Median	Sqm	0	539	0.1		0.00
C	Dash Lines	Sqm	0	323.4	0.1		0.00
d	Arrow	Sqm	34	0.76			25.84
е	Pedstrian Crossing	Sqm	5	6.2	1.4		43.40
f	Table Top Crossing	Sqm	1	6.2	16.82		104.28
8	8/26 - Jeppu Market Road						
<u>a</u>	Continuos Line-at Edge	Sqm	2	225	0.1		45.00
<u>b</u>	Continuos Line-at Median	Sqm	0	225	0.1		0.00
C C	Dash Lines Arrow	Sqm Sqm	2 16	135	0.1 Aroa/Pm		27.00 12.16
<u>d</u>	Arrow Pedstrian Crossing	Sqm Sqm	4	0.76 11	Area/Rm 1.4		61.60
e f	Table Top Crossing	Sqm Sqm	1	11	16.82		185.02
9							
9 a	9/27 - Gujjarkere Road Ch.0 to Ch.478.0				1		
b	Continuos Line-at Edge	Sqm	2	645	0.1		129.00
С	Continuos Line-at Median	Sqm	0	645	0.1		0.00
<u> </u>		Cam	0	207	0.1		0.00
d	Dash Lines Arrow	Sqm Sqm	32	387 0.76			24.32

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
f	Pedstrian Crossing Table Top Crossing	Sqm Sqm	6 1	6.2 6.2	1.4 16.82		52.08 104.28
	Add 10% Extra qty.	Oqiii	·	0.2	10.02		277.70
		Sqm			Total Qty.		3054.70
59	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.	4				4.00
	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)						
60	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)						
2	2/19-Old Kent Road						
	Long Wall	Cum	32.00	3.00	0.23	0.65	14.35
3	Short Wall	Cum	32.00	0.60	0.23	0.65	2.87
3	3/20- Pandeshwar New Road Long Wall	Cum	6.00	3.00	0.23	0.65	2.69
	Short Wall	Cum	6.00	0.60	0.23	0.65	0.54
4	4/22-Bolar Fisheries College Road						
	Long Wall Short Wall	Cum Cum	6.00 6.00	3.00 0.60	0.23 0.23	0.65 0.65	2.69 0.54
5	5/23-Mulihithlu Road	Cuili	0.00	0.60	0.23	0.05	0.54
	Long Wall	Cum	16.00	3.00	0.23	0.65	7.18
	Short Wall	Cum	16.00	0.60	0.23	0.65	1.44
6	6/24-Mangaladevi Temple Road Long Wall	Cum	16.00	3.00	0.23	0.65	7.18
	Short Wall	Cum	16.00	0.60	0.23	0.65	1.44
7	7/25-Monkey stand New Road						
	Long Wall	Cum	8.00	3.00	0.23	0.65	3.59
8	Short Wall 8/26-Jeppu Market Road	Cum	8.00	0.60	0.23	0.65	0.72
	Long Wall	Cum	4.00	3.00		0.65	1.79
	Short Wall	Cum	4.00	0.60	0.23	0.65	0.36
9	9/27-Gujjarkere Road Long Wall	Cum	16.00	3.00	0.23	0.65	7.18
	Short Wall	Cum	16.00	0.60		0.65	1.44
		Cum			Total Qty.		55.97
61	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)						
2	2/19-Old Kent Road						
<u> </u>	Long Wall Short Wall	Sqm Sqm	32.00 32.00	3.00 0.60		0.45 0.45	43.20 8.64
3	3/20- Pandeshwar New Road	Jqiii	52.00	0.00		0.43	0.0+
	Long Wall	Sqm	6.00	3.00		0.45	8.10
4	Short Wall 4/22-Bolar Fisheries College Road	Sqm	6.00	0.60		0.45	1.62
4	Long Wall	Sqm	6.00	3.00		0.45	8.10
	Short Wall	Sqm	6.00	0.60		0.45	1.62
5	5/23-Mulihithlu Road	0	40.00	0.00		0.45	04.00
	Long Wall Short Wall	Sqm Sqm	16.00 16.00	3.00 0.60		0.45 0.45	21.60 4.32
6	6/24-Mangaladevi Temple Road	Jqiii	10.00	0.00		0.43	-7.02
	Long Wall	Sqm	16.00	3.00		0.45	21.60
	Short Wall	Sqm	16.00	0.60		0.45	4.32

Sr. No.	Description	Unit	No's	L	В	н	Qty.
7	7/25-Monkey stand New Road						
	Long Wall	Sqm	8.00	3.00		0.45	10.80
	Short Wall	Sqm	8.00	0.60		0.45	2.16
8	8/26-Jeppu Market Road	_					
	Long Wall	Sqm	4.00	3.00		0.45	5.40
9	Short Wall 9/27-Gujjarkere Road	Sqm	4.00	0.60		0.45	1.08
9	Long Wall	Sqm	16.00	3.00		0.45	21.60
	Short Wall	Sqm	16.00	0.60		0.45	4.32
	Onort Wall	Sqm	10.00	Total Qty.	l .	0.40	168.48
		Oqiii		rotar Gty.			100.40
62	Providing and fixing 450mm wide X 600mmX 20mm thk.RIVERWASHED BLACK GRANITE CLADDING on surface of seating as directed by architect (Non SOR Item)						
2	2/19-Old Kent Road						
	Bench	Sqm	16.00	3.00		0.60	28.80
3	3/20- Pandeshwar New Road						
	Bench	Sqm	3.00	3.00		0.60	5.40
4	4/22-Bolar Fisheries College Road						
	Bench	Sqm	3.00	3.00		0.60	5.40
5	5/23-Mulihithlu Road						44.7-
	Bench	Sqm	8.00	3.00		0.60	14.40
6	6/24-Mangaladevi Temple Road	C	0.00	0.00		0.00	44.40
	Bench	Sqm	8.00	3.00		0.60	14.40
7	7/25-Monkey stand New Road	C	4.00	2.22		2.22	7.00
0	Bench	Sqm	4.00	3.00		0.60	7.20
8	8/26-Jeppu Market Road	C~~-	2.00	2.00		0.60	2.60
9	Bench	Sqm	2.00	3.00		0.60	3.60
9	9/27-Gujjarkere Road Bench	Sqm	8.00	3.00		0.60	14.40
	DOTION	Sqm	0.00	3.00	Total Qty.	0.00	93.60
		Sqiii			Total Qty.		93.60
63	Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item) 2/19 - Old Kent Road	Nos	20				20.00
	3/20 - Pandeshwar Road	Nos	4				4.00
	4/22 - Bolar Fisheries Road	Nos	6				6.00
	5/23 - Milihithuli Road	Nos	33				33.00
	6/24 - Mangaladevi Temple Road	Nos	0				0.00
	7/25 - Monkey Stand New Road	Nos	17				17.00
	8/26 - Jeppu Market Road	Nos	8				8.00
	9/27 - Gujjarkere Road	Nos	7				7.00
							95.00
64	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						
	RHS	Dm	1	100			100.00
	LHS	Rm Rm	1	100 100			100.00 100.00
	LNS	Rm	- '	100		A=	200.00
		KIII				A=	200.00
	Hand Rail of length2.4 meter Steel Qty.					Wt/Rm	
	Horizontal Member-M.S.Box 25x25x3.2mm thk.	KG		3		4.536	32.66
	Vertical Member-M.S. Box 50x25x3.2mm thk.	KG		1		7.368	10.13
	Verical Bar-Dia 16mm	KG		20			7.12
	Tonosa Dai Dia Tonini	٠,٠٥		20	Area	Thk	1.12
	Logo Plate	KG		1	0.07065	0.001	0.000071
		KG			0.01 000	Total Wight for 2.4 m Railing (A)	49.91
	Railing per 1m Weight(A / 2.4 m)	KG				B=	20.8
	Total Railing Weight (A x B)	MT					4.16
	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		47				47.00
65	charge.	Noc			1		17.00
65	2/19 - Old Kent Road	Nos.	17				0.00
65	2/19 - Old Kent Road 3/20 - Pandeshwar Road	Nos.	6				6.00
65	2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road	Nos. Nos.	6 4				4.00
65	2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road	Nos. Nos. Nos.	6 4 19				4.00 19.00
65	2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road	Nos. Nos. Nos.	6 4 19 17				4.00 19.00 17.00
65	2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road	Nos. Nos. Nos. Nos.	6 4 19 17 11				4.00 19.00 17.00 11.00
65	2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road 8/26 - Jeppu Market Road	Nos. Nos. Nos. Nos. Nos.	6 4 19 17 11 5				4.00 19.00 17.00 11.00 5.00
65	2/19 - Old Kent Road 3/20 - Pandeshwar Road 4/22 - Bolar Fisheries Road 5/23 - Milihithuli Road 6/24 - Mangaladevi Temple Road 7/25 - Monkey Stand New Road	Nos. Nos. Nos. Nos.	6 4 19 17 11		Total Qty.		4.00 19.00 17.00 11.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
66	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	Nos.	10				10.00
67	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	21133.53			21133.53
68	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	16975.31			16975.31

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City 1.2 Rate Analysis of Road & Other Work for DPR 6

	Taking out existing CC interlocking power blocks from factoath/	ontrol vo	rae including re-	mayal of mubbiob
	Taking out existing CC interlocking paver blocks from footpath/ cetc., disposal of unserviceable material to the dumping ground, for		•	
1	and stacking of serviceable material within 50 metre lead as			
	attached)	per une	ction of Enginee	si-iii-Ollaige.(IVA
	attaonoay			
	Basic rate		68.16	
	Add 10% For area weightage (Mangalore City)		6.82	
		Rate	74.98	Sqm
	KSRRB M200.Dismantling of cement concrete pavement by			• .
	tools, breaking to pieces not exceeding 0.02 cum in volume and			
2	disposal of dismantled material stacking serviceble and unservice			
_	specifications.MORTH specification No.202.(Including transporting	g charge	s,loading and ur	lloading for lead
	5km-Extra)			
	(SI No : 18.47)	_		
	Basic rate		899	
	Initial Lead of 5km		13	
	Add 10% For area weightage (Mangalore City)		91.2	
		Rate	1003.20	Cum
	KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M		•	•
3	Manual means and disposal of dismantled materials with all lifts an	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			ans. A. Cement
	Concrete Grade M-15 &M-20. MORTH Specification No. 202 (KPW	VD 50K	18-19,5.1.18.20)	
		T	1	
	Basic rate		390	
	Add 10% For area weightage (Mangalore City)		39	
		Rate	429.00	Cum
	KSRRB M200-17.2. Dismantling of existing structures like culv	verts, bri	dges, retaining	walls and other
	structure comprising of masonry, cement concrete, wood work, s			
	wherever necessary, sorting the dismantled material, disposal of			
5	serviceable material with all lifts complete as per specifications. v			Sections upto a
	Height of 5 m above plinth level excluding Cutting of Rivet–B. Excl	luding dis	smembering.	
	(KPWD SOR 18-19,18.33)			
	Basic rate		1893	
	Add 10% For area weightage (Mangalore City)		189.3	
	2 2 1	Rate	2082.30	
	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	ne base a	and stacking the	debris including
6	cost of all labour charges, HOM of machineries complete as per sp	accification	no MODTH / Co	ection 5 (KSRRR
		Jecincand	DIIS. MORTH/SE	SCHOIL S.(IVOLVIND
	SI No.19.56)	Jecincalic	DIIS. MORTH / SE	oction o.(Northo
			39	
	SI No.19.56)	Decincan		·

		Rate	42.90	Sam
		Nate	72.30	Oqiii
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
8	KSRRB M200-12.1. Dismantling of existing structures like culv structure comprising of masonary, cement concrete, woodwork, swherever 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	PWD 18-19,SI No) : 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 permanent type barricade made of steel components, 1.5 m high fr 200 mm wide and 4 m long on 50 x 50 x 5 mm angle iron vertic strips, 150 mm in width at an angle of 45°, complete as per IRC:SF A. With steel components (SI No : 24.45)	om road al suppo	level, fitted with rt, painted with yat complete as pe	3 horizontal rails /ellow and white r specifications.
	Basic rate		3829	
	Add 10% For area weightage (Mangalore City)		382.9	
		Rate	4211.90	Each
11	KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side slines and grades and cross sections,and transporting disposal local as per specifications. MORTH specification No.301 (SI No : 19.14)	slopes,in	accordance with a lead of 5.00k	requirements of
	Basic rate for 1KM		41	
	Extra for carriage beyond 1km and upto 5km Add 10% For area weightage (Mangalore City)		10.24 5.12	
	mad 1070 For area weightage (mangalore Oity)	Rate	56.36	
		·····	30.30	
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	
Ī		Rate	6.60	Sqm

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	KCDD 4.4.C.: Draviding and leving	in nonition plain compat on		main MAE Crade	with company @
14	KSRB 4-1.6; Providing and laying 240kgs, with 20mm and down size @ 0.459cum, machine mixed, corfoundation, plinth and cills, ncluding	graded granite metal coarse a crete laid in layers not exce	aggregates eeding 15	s @ 0.69 cum an cms. thick, we	d fine aggregtes
	specifications. Specification No. KBS			acililery, curing	complete as per
	Basic Rate			5900	
	Add 10% For area weightage (Mang	alore City)		590	
			Rate	6490.00	Cum
15	KSRRB 400 Granular Sub-Base with granular sub-base by providing Coaspeading in uniform layers with moreotavator at OMC, and compacting MORTH specifications clause 401 at (SI.No.20.4 of KPWD SR 2018-19)	rse graded crushed stone ago otor grader on prepared surf with vibratory roller to achi	gregates face, mixii	of granite / trap / ng by mix in pla	basalt material, become the base of the ba
	Basic Rate			2166	
	Add 10% For area weightage (Mang	alore City)		216.6	
			Rate	2382.60	Cum
16	KSRRB M400-6.1. Construction of of granite / trap / basalt material, missite, spreading in uniform layers compactor to achieve the desired graded granular sub-base material and the street of the str	king in a mechaical mix plant with motor grader on prepa density, complete as per spe	at OMC, cared surfa	arriage of mixed ace and compa s. A. Plant Mix	material to work cting with Plate
	Basic Rate			2400	
	Add 10% For area weightage (Mang	alore City)		240	
			Rate	2640.00	Cum
17	cement @340Kgs,with 20mm and deplasticisers @3 liters confirming to not exceeding 15cms thick, vibrated walls,walls (any thickness) including blocks,anchor blocks & plinths etc.,I cost of reinforcement as per specific (SI No: 4.10 of KPWD 18-19)	IS 9103-1999 reafirmed -200 for all works in foundation for all works in foundation for attached pilasters, colurncluding cost of labour, HOM of	8 at mach or footings, mnspillars,	ine mixed,concre , pedastals, retai , posts, struts,	ete laid in layers ning walls,return buttresses, bed
	Basic Rate			6198	
	Add 10% For area weightage (Mang	alore City)		619.8	
	- I July 1 July	• /	Rate	6817.80	
18	KSRB 4.6.1 Providing and removing for foundations, footings, bases of cas per specifications. Specification No. KSB 4.6.2 (SI No: 4.28 of KPWD 18-19)		•	•	
	Basic Rate			263	
	Add 10% For area weightage (Mang	alore City)		26.3	
			Rate	289.30	Sqm
19	KSRB 4.9.2 :Providing T.M.T steel restraighting, cutting, bending, hooking, binding wire and anchoring to thr ad and wastage shall not be measured specifications. Specification No. KBS do with TMT bars Fe500 (SI No : 4.46.2 of KPWD 18-19)	placing in position, lapping and loing members wherever nece and paid) cost of materials, lal	d/or weldin essary con	nplete as per des	sign (laps,hooks
	Basic Rate			70782	
	טעטוע ו/מוכ	Pae 81		10102	<u> </u>

	Add 10% For area weightage (Mangalore City)		7078.2	
	3 3 \ 3 77	Rate	77860.20	
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 powering charges & compaction by vibratory rollercompaction by vibratory Followship (MORTH Specification No. 305IKPWD 18-19,19.62,17.1 and 17.4)	oreading, er specific	grading to requir cations (including	ed slope and g 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	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 sensor, compacting with 8-10 tonnes double drum vibratory roll specifications. Morth specification No.601 (SI No: 22.1.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City)	after ble n, concre site,laid	nding to be as pete strength not with a paver	per Table 600-1, to be less than with electronic complete as per
22	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, length construction of the plant in the construction of the plant in the	regate and fine and after ble notice after ble notice after ble notice after a	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	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)	5 with 1:5 gregate and fine a after ble n, concre Manually	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 acting with palte
22	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 1:5 gregate and fine a after ble n, concre Manually	4452.80 5:10 OPC cemer t 0.86cum and fi ggregate confirm nding to be as pete strength not laid and compa se 601.	Cum It @160Kgs,with It will will will will will will will wil
22	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)	5 with 1:5 gregate and d fine a after ble n, concre Manually ions Clau	4452.80 5:10 OPC cemer t 0.86cum and fi ggregate confirm nding to be as pete strength not laid and compa se 601. 3680 368	Cum nt @160Kgs,with ne aggregate @ ming to IS:383) per Table 600-1, to be less than acting with palte
22	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 1:5 gregate and fine a after ble n, concre Manually	4452.80 5:10 OPC cemer t 0.86cum and fi ggregate confirm nding to be as pete strength not laid and compa se 601.	Cum nt @160Kgs,with ne aggregate @ ming to IS:383) per Table 600-1, to be less than acting with palte
22	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 1:5 gregate and fine a after ble in, concrew Manually ions Claus Rate Rate size granthick layer and lift etc.	4452.80 5:10 OPC cemer t 0.86cum and fi ggregate confire nding to be as pete strength not laid and comparise 601. 3680 3680 4048.00 hite coarse aggress and well comparises, complete. (except	cum t @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 sulsive of cost of
	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,t 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 center. 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 gregate and fine a after ble in, concrew Manually ions Claus Rate Rate size granthick layer and lift etc.	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 comparise and well comparise complete. (exception)	cum It @160Kgs,with Ine aggregate @ Iming to IS:383) It is per Table 600-1, It to be less than acting with palte Cum It is egates and fine pacted including sulsive 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, 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 cer CE, C&B letter, AE2, 2015-16, Dt. 12-09-2015 Ready mixed Cement concrete M-25	5 with 1:5 gregate and fine a after ble in, concrew Manually ions Claus Rate Rate size granthick layer and lift etc.	4452.80 5:10 OPC cemer t 0.86cum and fi ggregate confire nding to be as pete strength not laid and comparise 601. 3680 3680 4048.00 hite coarse aggress and well comparises, complete. (except	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,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 cel CE, C&B letter, AE2, 2015-16, Dt. 12-09-2015 Ready mixed Cement concrete M-25 (KPWD,4.49.2) Basic Rate	5 with 1:5 gregate and fine a after ble in, concrew Manually ions Claus Rate Rate size granthick layer and lift etc.	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 comp	cum It @160Kgs,with ne aggregate @ ming to IS:383) Der 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,pl prepared sub base with 25mm and down size graded granite metal 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine a batching and mixing plant as per approved mix design,transpo spread,compacted and finished in a continuos operation inclu construction and longitudinal joints,including groove cutting chi sealent primer, joints sealant, debonding strip, dowel bars, ti compound,finishing to lines and grades as per drawing comple 602.with M40 @420Kg per cum Cement,C.A,0.67 cum F.A.044Cur (SI No: 22.2.2 of KPWD 18-19)	l coarse a ggregate rted to s ding pro ges, joir e rod, a te as pe	aggregate with su conforming to IS site,laid with a fivision of contra nts filler,separation admixtures as a r MORTH speci	uperplastisizer at 3:383) mixed in a fixed form paver ction, expansio, on memberane, pproved, curing fications Clause
	Basic Rate		5765	
	Add 10% For area weightage (Mangalore City)		576.5	
		Rate	6341.50	Cum
	Providing and placing joint sealant compound of cold polysulphide to required width, sand blasting the groove face if recommended	by the se	alant manufactu	rer, cleaning the
25	groove with air compressor, insertion of debonding strip, primin- manufacturer recommends and pouring the sealant all complet shown on drawing and as per MORTH specifications clause 602. (Non SOR Item)	-		
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.2	Rate	115	Rmt
	KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar			
26	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)			
			004	
	Basic Rate Add 10% For area weightage (Mangalore City)		331 33.1	
	Add 10% For area weightage (Mangalore City)	Rate	364.10	Rmt
		rtato	301110	
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			
	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 Total Rate		392 15481.61	
	Add 10% For area weightage (Mangalore City)		1548.16	
	in the second se	Rate	17029.77	Cum
1		1		

	CC M20 and jointed with CM 1:3 and finishing cutting, including		as per the draw materials,labou	
29	machinery,loading,unloading,lead and lift,transportation etc.,co	•	•	, 3
	(SI No : 5.3 of KPWD 18-19)	-		
	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	
	3 3 \ 3 //	Rate	17029.77	Cum
	Reusing existing kerb stone obtained from dismantaling of exis	•	•	•
	and laying at or near ground level in position to the required line		rvature, jointed	with cement
	mortar 1:3 (1 cement: 3 coarse sand), including making joints v			
30	grooves (thickness of joints except at sharp curve shall not to n site from stack yard, making drainage opening wherever requir			
	in-charge (length of finished kerb edging shall be measured for	•	ic. as per direct	ion of Engine
	(Precast C.C. kerb stone shall be approved by Engineer-in-cha			
	(Frecast C.C. Kerb storie shall be approved by Engineer-in-cha	iige).		
	Basic Rate (RA Attached)		52.94	
	Add 10% For area weightage (Mangalore City)		5.29	
		Rate	58.23	
		Nate	30.23	Kilik
				
	new plastered concrete surfaces, with materials, labour comple	•	rtiii opoomoan	
	(SI No : 24.1 of KPWD 18-19) Basic Rate	· 	80	
	(SI No : 24.1 of KPWD 18-19)	·	·	
	(SI No : 24.1 of KPWD 18-19) Basic Rate	Rate	80	Sqm
	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City)	Rate	80 8 88	Sqm
32	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on	Rate	80 8 88	Sqm
32	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (Rate analysis attached)	Rate	80 8 88	Sqm
32	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (Rate analysis attached) Rate Arrived as per Rate analysis	Rate	80 8 88 lectrical ducting	Sqm
32	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate	Rate	80 8 88 lectrical ducting	Sqm
32	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30%	Rate	80 8 88 lectrical ducting 10764 -3229.2	Sqm J.
32	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total	Rate	80 8 88 lectrical ducting 10764 -3229.2 7534.8	Sqm J.
32	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30%	Rate Manhole for e	80 8 88 lectrical ducting 10764 -3229.2 7534.8 376.74	Sqm J.
32	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total	Rate	80 8 88 lectrical ducting 10764 -3229.2 7534.8	Sqm J.
	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total	Rate Manhole for e	80 88 88 lectrical ducting 10764 -3229.2 7534.8 376.74 7911.54	Sqm J.
32	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (Rate analysis attached) Rate Arrived as per Rate analysis Basic Rate Discount 30% Sub Total Fixing Charges @5%	Rate Manhole for e	80 88 88 lectrical ducting 10764 -3229.2 7534.8 376.74 7911.54	Sqm J.
	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (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 Manhole for e	80 88 88 lectrical ducting 10764 -3229.2 7534.8 376.74 7911.54	Sqm J. Nos.
	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (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)	Rate Manhole for e	80 8 88 88 lectrical ducting 10764 -3229.2 7534.8 376.74 7911.54 on SWD.	Sqm J. Nos.
	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (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 Sub Total	Rate Manhole for e	80 8 88 88 lectrical ducting 10764 -3229.2 7534.8 376.74 7911.54 on SWD.	Sqm J. Nos.
	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (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 Manhole for e Rate Rate aised footpath	80 8 88 88 lectrical ducting 10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3 251.265	Sqm J. Nos.
	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (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 Sub Total	Rate Manhole for e	80 8 88 88 lectrical ducting 10764 -3229.2 7534.8 376.74 7911.54 on SWD.	Sqm J. Nos.
	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (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%	Rate Manhole for e Rate raised footpath Rate	80 88 88 lectrical ducting 10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3 251.265 5276.565	Sqm J. Nos.
	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (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 Sub Total	Rate Manhole for e Rate raised footpath Rate	80 88 88 lectrical ducting 10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3 251.265 5276.565	Sqm J. Nos.
333	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (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 Manhole for e Rate raised footpath Rate	80 88 88 lectrical ducting 10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3 251.265 5276.565	Sqm J. Nos.
333	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (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)	Rate Manhole for e Rate raised footpath Rate	80 8 88 88 lectrical ducting 10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3 251.265 5276.565	Sqm Nos.
333	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (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 Fixing Charges @5%	Rate Manhole for e Rate raised footpath Rate	80 8 88 88 lectrical ducting 10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3 251.265 5276.565 th.	Nos.
33	(SI No : 24.1 of KPWD 18-19) Basic Rate Add 10% For area weightage (Mangalore City) P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on (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 Fixing Charges @5%	Rate Manhole for e Rate raised footpath Rate	80 88 88 10764 -3229.2 7534.8 376.74 7911.54 on SWD. 7179 -2153.7 5025.3 251.265 5276.565 th.	Sqm Nos.

35	KSRRB M300- Wrought iron and mild steel welded work KSRR welded work (using angles, square bars, tees and channel grills, g guards of any size and design etc. including cost of screens and fixed in position but without the cost of excavation and concrete complete as per specifications.(KPWD,18-19,SI.No.19.97)	ratings w I welding	ith grating frame: rods or bolts an	s, gates and tree d nuts complete
	Basic Rate		7187	
	Add 10% For area weightage (Mangalore City)		718.7	
	Trade 1070 For all oa morginago (manigaroro enjy	Rate		Quintal
		Ruto	100011	Quintai
36	KSRB 12-8.2 : Constructing brick masonry inspection chamber inside dimension) for pipeline with one or two inlets, using table 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-modular 610mm internal of 3kg and weight of ite metal , founds with cement more 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	
	That To 70 T of a feet weightage (Manigalore Oity)	Rate	9125.6	
37	Providing gully pipe lowering, laying of PVC 100 mm dia pipes to tand grade as indicated in drawings/design and hydraulically testing jointing materials, testing apparatus and water for testing etc as to No.41, Item No.7, KUWSDB SOR 2016-17)	g of the p	pipe line.The rate by the Engineer	shall include all
	Basic Rate		297	
	Add 10% on Labor Charges=Rs.47,For area weightage (Mangalore City)		4.7	
		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. Providin Reinforced concrete abutment, wing wall / return wall with 100 mm width of the structure with slope of 1V :20H towards drawing foce. (Specifications complete as per specifications MORTH Specification (PWD SR 2018-19, SI.No.28.10)	dia AC p Complete	oipe, extending the as per drawing	rough the full
	Basic Rate		147	
	Add 10% For area weightage (Mangalore City)		14.7	
		Rate	161.7	Nos.
	•			

40	KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-2 cement concrete pipe duct, 300 mm dia, across the road (new concuts and toe of slope to toe of slope in fills, constructing head wall granular material over top and sides of RCC pipe as per IRC:98 granular material free of rock pieces, outer to outer distance of minimum450 mm in case of double and triple row ducts, joints to be above higher than ground level to prevent entry of water and didrawings complete as per specifications. Case-III:Triple row for the (PWD SR 2018-19,SI.No.24.36)	nstruction) Is at both 3-1997, b f pipe at be made irt, all as p), extending from ends, providing edded on a 0.3 least half dia of leak proof, invel per IRC: 98 - 199	drain to drain in a minimum fill of m thick layer of f pipe subject to rt level of duct to
	Basic Rate		5022	
	Add 10% For area weightage (Mangalore City)		502.2	
		Rate	5524.20	Rm
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	he normal opera nforming 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	
	Providing and laying Dia 160mm HDPE Electrical pipe Conduits v	Rate	1556.88	
42	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)	erties cor	nforming to AST	MF 2160 and /or
1	years.(Market Rate)			
	Basic Rate		1215	
	Basic Rate Deduct GST @18%		1215 -218.7	
	Basic Rate Deduct GST @18% Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123)		-218.7 66	
	Basic Rate Deduct GST @18% Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		-218.7 66 6.6	
	Basic Rate Deduct GST @18% Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123)	Rate	-218.7 66	
43	Basic Rate Deduct GST @18% Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123)		-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.		-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)		-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)	to be pla	-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.	to be pla	-218.7 66 6.6 1068.90 aced at an interval 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)	to be pla	-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 ubricant ind convey	-218.7 66 6.6 1068.90 aced at an interval 1003.00 aced 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 Licomforming to ASTMF 2160 and /or equivalent indian standard and unloading at both destination and rolling,lowering into trenchetc.Complete.	Rate to be pla Rate ubricant ind convey	-218.7 66 6.6 1068.90 aced at an interval 1003.00 aced 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 dijointing of pipe

	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123)		36	
	Add 10% For area weightage (Mangalore City)		3.6	
		Rate	601.30	Rm
46	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.	ce accura	ately to the requi	red level,shape
	Basic rate		624.00	
		Rate	624.00	
				•
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	of blocks of approved size, shape and colour with a minimum con 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)	n plate vil etween j	orator having 3 oints, final comp	tons compaction paction of pave
	Basic rate		1114	
	Add 10% For area weightage (Mangalore City)		111.4	
	That is 70 to a document of the second of th	Rate	1225.40	
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 smooto achieve the desired compaction as per MORTH table 500-10 specifications MORTH Specification No. 507 -using 100/120 TP (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 eled, vibratory an e in all respects ty H.M.P. with se	mix to work site d tandem rollers complete as pe
	Basic rate		7839	
	Add 10% For area weightage (Mangalore City)		783.9	
		Rate	8622.90	
			3322.33	
50	KSRRB M500-19. Providing and laying bituminous concrete 40 m aggregates of specified grading, premixed with bituminous binder site, laying with a paver finisher to the required grade, level and vibratory and tandem rollers to achieve the desired compaction 500.9 complete in all respects complete as per specifications. Me TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm	and filler d alignme as per N ORTH Sp	transporting the ent, rolling with some of the contraction of the cont	e hot mix to work smooth wheeled ation clause No 509 - using40/60
		•		
	Basic rate		8761	
	Add 10% For area weightage (Mangalore City)		876.1	
		Rate	9637.10	Cum
		1	1	i

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.

	40					
	10 years warranty for Retro Reflective Sheeting from the original sh IRC: 2012 & a certified copy of three years outdoor exposure repor product offered shall be obtained from the supplier. 600MM Circle-TYPE XI					
	(KPWD 18-19,SI No : 24.2.3)					
	Basic Rate		3118			
	Add 10% For area weightage (Mangalore City)	Data	311.8			
		Rate	3429.80	NOS		
54	KSRRB M800-3. Direction and Place Identification Signs upto 0.9 s 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 (KPWD 18-19,SI No : 24.3)	formatory ands of IR 0.30 thice of on 75n 1.10 m fro d be paint ally fixed t cm inclu ading cha warranty a certifie	y signboards mand C:67:2012 spectock aluminium skirt mm dia OR 75x75 mm the ground level ted with one coard the ground by a ding cost & converges necessary for retro reflectived copy of three years.	de out of cube ifications & fixed on on both sides fixed fixed means of eyance of all for satisfactory we sheeting from wears outdoor		
	Basic Rate		6927			
	Add 10% For area weightage (Mangalore City)		692.7			
		Rate	7619.70	Sqm		
55	Providing and erecting direction and place identification retro-reflectintensity grade sheeting vide Clause 801.3, fixed over aluminium sl 0.9 sqm supported on a mild steel single angle iron post 75 x 75 by means of properly designed foundation with M 15 grade cement ground level as per approved drawing.	heeting, 2 x 6 mm,	2 mm thick with a 2 Nos. firmly fixe	rea exceeding do to the ground		
	Basic Rate		7206			
	Add 10% For area weightage (Mangalore City)		720.6			
		Rate	7926.60	Sqm		
56	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	404.9 4453.90			
57	KSRRB M800 Road markers / Road stud KSRRB M800-35. Provide diecast in aluminium, resistant to corrosive effect of salt and griconcrete or asphaltic surface by drilling hole 30 mm upto a debituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 co (KPWD 18-19,SI No : 24.41)	t, fitted v	with lense reflec) mm and bedd	tors, installed in ed in a suitable		

	Docis Dots	1	200	
	Basic Rate		289	
	Add 10% For area weightage (Mangalore City)	Doto	28.9	
		Rate	317.90	NOS.
58	Road Marking with hot applied Thermoplastic Compound with Surface:Providing and laying of hot applied thermoplastic compound glass beads at 250 gms and 2 ltr of primer per sqm area,thickness glass beads as per IRC:35.The finished surface to be level,uniform as per specifications.MORTH specification No.803 (KPWD 18-19,SI No : 24.15)	ound 2.5 s of 2.5m	mm thick includi m is exclusive of	ing reflectorising f surface applied
	Basic Rate		429	
	Add 10% For area weightage (Mangalore City)		42.9	
	That 10701 of area weightage (Mangalore Oity)	Rate	471.90	
		110.00		94
0	Providing and Fixing of Bus shelter(on prepared foundation) made finish, Galvanised Aluminium powder coated roofing and electron shall be made of SS 304 tubular sections for seat and back rest. In the section of the	ic circuit cach unit Side Disp crolling ty adopted o trs.Intera n LED dis t Area 2 the Bus S ling outd	to control its light size of 4500mm blay board to have pe with Oval, 4 one for recycle was increased and size 4500 Shelter. This shadoor WiFi Router	ating. The seating x 600mm with a ve 1100X400mm .3 x 5.1mm dia. vaste & other for n Panel-display rea not less than 0mm x 1650mm II be backlit type . The Foundation
	(NON SOR Item)			
	(NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer	Rate	1500000	Nos.
59		onic toile f electror olled mair 304.E-To validator be manu ing syste after use these flu exhaust fa y are to l based Ro	t to have asthetinic toilet overall a door and side wollet shall have B for entering the al. Automatic ligher which include and Automatic pah switch is to an and cloth han be provided in the all time data to be	c ambience with size in meters valls made of SS uilt-in water tank e unit based on its inside the unit es Automatic Preplatform cleaning be provided for iger. The E-Toilet the unit also with the provided from
59	Providing & installing of E- toilet with Super structure of the electrinner room size 1.2 x 0.8 x 2.4 (LXWXH)meters and Size of 2.30x1.25x2.80 (LXWXH) Total area 35 Sft. with Built-acess control Grade 304, Toilet floor and closet are to be stainless steel of grade with minimum 225 Lit capacity and Acess controll using coin automatic payment collection mechanism exit from the unit should with gloves on opening the door. E-Toilet shall be Automatic flush flush cleaning before use, Automatic closet washing mechanism a mechanism programmed after specific numbers. In addition to manual operation. Standard features should include heath faucet, a shall have Alert to users-different indication on 'ready to use', bus Voice guidence in the unit for users. Web enabled support-GPRS	onic toiled f electrorolled mair 304.E-To validator be manualing systemathese flue exhaust fay are to lased Rosers per assemble tracking ed.For Amoome geo 30 Min	t to have asthetic toilet overall a door and side woilet shall have B for entering the al. Automatic light and Automatic psh switch is to an and cloth han be provided in the altime data to be day and coins colling and installating and installating and suspection are suspection and suspection and suspection and suspection are suspection as suspection are suspection and suspection are suspection and suspection are suspection as suspecti	c ambience with size in meters valls made of SS uilt-in water tank e unit based on its inside the unit as Automatic Preplatform cleaning be provided for iger. The E-Toilet he unit also with the provided from at site. Call ection at site. Call pose space for
59	Rate Approved as per EOI by MD MSCL Mangalore,Refer Providing & installing of E- toilet with Super structure of the electrinner room size 1.2 x 0.8 x 2.4 (LXWXH)meters and Size of 2.30x1.25x2.80 (LXWXH) Total area 35 Sft. with Built-acess control Grade 304,Toilet floor and closet are to be stainless steel of grade with minimum 225 Lit capacity and Acess controll using coin automatic payment collection mechanism exit from the unit should with gloves on opening the door.E-Toilet shall be Automatic flush flush cleaning before use,Automatic closet washing mechanism a mechanism programmed after specific numbers. In addition to manual operation. Standard features should include heath faucet, shall have Alert to users-different indication on 'ready to use', bus Voice guidence in the unit for users. Web enabled support-GPRS the unit through web for knowing the health status like number of usersially in LED, Printed instruction stickers are to be provided advertisement dispaly to be povided on the exterior of the unit for in Backup power facility like UPS is to be provided to supplement upto Base of the unit to be placed on a suitable concrete structure with a	onic toiled f electrorolled mair 304.E-To validator be manualing systemathese flue exhaust fay are to lased Rosers per assemble tracking ed.For Amoome geo 30 Min	t to have asthetic toilet overall a door and side woilet shall have B for entering the al. Automatic light and Automatic psh switch is to an and cloth han be provided in the altime data to be day and coins colling and installating and installating and suspection are suspection and suspection and suspection and suspection are suspection as suspection are suspection and suspection are suspection and suspection are suspection as suspecti	c ambience with size in meters valls made of SS uilt-in water tank e unit based on its inside the unit as Automatic Preplatform cleaning be provided for iger. The E-Toilet he unit also with the provided from at site. Call ection at site. Call pose space for
59	Rate Approved as per EOI by MD MSCL Mangalore,Refer Providing & installing of E- toilet with Super structure of the electrinner room size 1.2 x 0.8 x 2.4 (LXWXH)meters and Size of 2.30x1.25x2.80 (LXWXH) Total area 35 Sft. with Built-acess control Grade 304,Toilet floor and closet are to be stainless steel of grade with minimum 225 Lit capacity and Acess controll using coin automatic payment collection mechanism exit from the unit should with gloves on opening the door.E-Toilet shall be Automatic flush flush cleaning before use,Automatic closet washing mechanism a mechanism programmed after specific numbers.In addition to manual operation.Standard features should include heath faucet, shall have Alert to users-different indication on 'ready to use',bus Voice guidence in the unit for users. Web enabled support-GPRS the unit through web for knowing the health status like number of unit through web portal facilities for registering complience and display in LED,Printed instruction stickers are to be provided advertisement dispaly to be povided on the exterior of the unit for in Backup power facility like UPS is to be provided to supplement upto Base of the unit to be placed on a suitable concrete structure with a (Non SOR Item)	onic toiled f electrorolled mair 304.E-To validator be manualing systemathese flue exhaust fay are to lased Rosers per assemble tracking ed.For Amoome geo 30 Min	t to have asthetinic toilet overall a door and side wollet shall have Be for entering the al. Automatic light and Automatic part of an and cloth han be provided in the al time data to be day and coins colled usage, coin colled vertisment purpose for finish.	c ambience with size in meters valls made of SS uilt-in water tank e unit based on its inside the unit as Automatic Preplatform cleaning be provided for ager. The E-Toilet he unit also with the provided from at site. Call ection at site. Call ection etc. Status pose space for stainability.

	KSRB 6-2.3 : Providing and constructing burnt brick masonry with	approved	quality of non-r	nodular bricks
	standard size of class designation 5.0Newton per sqmm (table		•	
60	basement and superstructu/re including cost of materials, labour	charges,	scaffolding, cui	ring complete a
	per specifications. Specification No. KBS 6.2.	_	_	
	(KPWD 18-19,SI.No.6.7)			
	Basic rate		7797	
	Add 10% For area wightage		779.7	
	- tall to to the angle angle	Rate	8576.70	
		110100		
	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat	with cem	ent mortar 1:4.	to brick mason
	including rounding off corners wherever required smooth renderir			
61	including cost of materials, labour, curing complete as per specifica	tions.(KP	WD 18-19,SI N	o.15.16)
		,		•
	Basic rate		262	
	Add 10% For area wightage		26.2	
	Nad 10701 of area wightage	Rate	288.2	
		Nate	200.2	Sqiii
	Providing and fixing 450mm wide X 600mmX 20mm thk.RIVERWA	SHED BI	ACK GRANITE	
	surface of seating as directed by architect	OI ILD DI	LACK GRANITE	. CLADDING C
61	(Non SOR Item)			
	(Non Sort Roll)			
	Basic Rate		3527	
	Rate Approved as per EOI by MD MSCL Mangalore, Refer	Rate	3527.00	Sqm
	Providing and fixing of S.S. Bollards(SS304) on footpath as specific	ed and di	rected by Engin	eer -in-charge
63	(NON SOR Item)			
	Basic Rate		4500	
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.13	Rate	4500.00	Nos.
		110.00	1000100	
	Providing and fixing of railing as detail design in MS HOLLOW SEC	CTION and	d bars (shop dr	awing to be
- 1	approved), with vertical support of 0.9m @2.2mc/c , all complete t		, .	•
64	architect.(Non SOR Item)			
	Basic Rate		100000.00	
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.26	Rate	100000.00	MT
	Providing and Fixing SS 304 Outdoor Dustbin(Pivoted Type and Mo	ounted on	SS Poles) of 5	5 liters capacity
65	all complete to the satisfaction of the Engineer in charge.			
	(NON SOR Item)			
	Basic Rate		7500	
	Rate Approved as per EOI by MD MSCL Mangalore,Refer		7000	
	Sr.No.14	Rate	7500.00	Nos
	01.NO.14	Nate	7 3 0 0 . 0 0	1103.
	KSRRB M300-14. Half brick circular tree guard, in 2nd class b	rick inte	rnal diametre 1	25 metres ar
	height 1.2 metres, above ground and 0.20 metre below ground, b			
66	courses in cement mortar 1:6 (1 cement 6 sand) and the interm			
00	masonry, as per design complete, complete as per specificatio			
	bricks, laid dry lengthwise	113.1101111	b M300-Laging	, with Zhu Ga
	, , , , , , , , , , , , , , , , , , ,		00.40	1
	Basic Rate		2242	
	Add 10% For area weightage (Mangalore City)	D .	224.2	
		Rate	2466.20	Nos.
				<u> </u>
	Extra Lead for Disposing off unconviscable materials unto 10 Km he	avond init	ial Laad of Elva	
67	Extra Lead for Disposing off unserviceable materials upto 10 Km be Item No 17.4 KSRRB M100-4.1-Earth	zyona mit	iai Ledu OI 5 KM	I
	INC IT 4 NORNO IVITUU-4. I-EAIUI			
	Earth	2 Nx	1.28x10km	
	1	2.07	0,, 101011	

	Baisc rate		25.60	
	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
68	Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris	eyond ini	tial Lead of 5km	
68	Item No 17.4 KSRRB M100-4.1-Debris	·		
68	i j	·	tial Lead of 5km 1.30x10Km 26.00	
68	Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate	·	1.30x10Km	
68	Item No 17.4 KSRRB M100-4.1-Debris Debris	·	1.30x10Km	
68	Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate	·	1.30x10Km 26.00	
68	Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1)	·	1.30x10Km 26.00 57.00	

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City 2.1 BOQ of Electrical lighting Works for DPR-6 Roads

Sr.No.	Specification	Unit	Quantity	Rate	Amount	Remarks
1	Lighting Poles					
1.1	Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required	Nos.	7	1,681	11,765	
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.	7	4,057	28,399	
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.	204	12,420	2,533,680	
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.	36	7,398	266,328	
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.	4	3,540	14,160	
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.	207	2,400	496,800	
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	Nos	7	620	4,340	
2	(Ref Electrical SOR SI No.16.28.2) Out door box and switch gear					
2.1	Supply, installation, testing and commissioning of outdoor junction box for mounting MCB/Contactors with all required accessories and componenets	No.	48	11,783	565,580	
2.2	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	48	1,547	74,256	

Sr.No.	Specification	Unit	Quantity	Rate	Amount	Remarks
3.1	LT Cable 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	12210	117	1,428,570	
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	3194	81.60	260,630	
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	1664	11.31	18,820	
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	1446	3.12	4,512	
4.1	Earthing system 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	96	5,500.00	528,000	
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	10745	19.50	209,528	
5	Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required RA attached	Nos.	0	2,541.48	-	
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.	0	5,476.00	-	
			TOTA	AL	64,45,368	

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City

2.1.1 M.S.of Electrical Lighting Works

Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required Old Port road (Road no 1) Nos. 6 Old Kent road (Road no 2) Nos. 0 Pandeshwar new road (Road no 3) Nos. 0 Bollar fisheries college road (Road no 4) Nos. 1 Monkeystand New Road (Road no 7) Nos. 0 Mangaladevi Temple Road (Road no 6) Nos. 0 Jeppu Market Road (Road no 8) Nos. 0 Gujjarkere Road (Road no 9) Nos. 0 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) Old Port road (Road no 1) Nos. 0 Did Kent road (Road no 2) Nos. 0 Pandeshwar new road (Road no 3) Nos. 0 Bollar fisheries college road (Road no 4) Nos. 1 Monkeystand New Road (Road no 7) Nos. 0 Mangaladevi Temple Road (Road no 6) Nos. 0 Jeppu Market Road (Road no 8) Nos. 0 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 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			
1.1 embedded in cement concrete foundation etc. as required Old Port road (Road no 1) Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulhihithlu Road (Road no 5) 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) Old Port road (Road no 1) Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Nos. 0 Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 8) Monkeystand New Road (Road no 6) Jeppu Market Road (Road no 7) Nos. 0 Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 9) 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			
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Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Nos. 1 Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) 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) Old Port road (Road no 1) Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Nos. 0 Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) 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			0.00
Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 8) 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) Old Port road (Road no 1) Nos. 0 Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 9) Mulihithlu Road (Road no 9) 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			0.00
Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 9) 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) Old Port road (Road no 1) Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 8) Mos. Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) 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			1.00
Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) 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) Old Port road (Road no 1) Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mos. 0 Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Nos. 0 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			0.00
Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) 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) Old Port road (Road no 1) Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Nos. 0 Mulihithlu Road (Road no 5) 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			0.00
Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) 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) Old Port road (Road no 1) Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) 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			0.00
Mulihithlu Road (Road no 5) Nos. 0			0.00
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 including excavation and refilling etc. as required. Above 6.5 meter and upto 8.0 meter Existing poles (As per RA) Old Port road (Road no 1) Nos. 6 Old Kent road (Road no 2) Nos. 0 Pandeshwar new road (Road no 3) Nos. 0 Bollar fisheries college road (Road no 4) Nos. 1 Monkeystand New Road (Road no 7) Nos. 0 Mangaladevi Temple Road (Road no 6) Nos. 0 Jeppu Market Road (Road no 8) Nos. 0 Gujjarkere Road (Road no 9) Nos. 0 Mulihithlu Road (Road no 5) Nos. 0 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			0.00
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) Old Port road (Road no 1) Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) 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	T	otal	7.00
Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Nos. 0 Bollar fisheries college road (Road no 4) Nos. 1 Monkeystand New Road (Road no 7) Nos. 0 Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Nos. 0 Mulihithlu Road (Road no 5) 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			
Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) 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			6.00
Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) 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			0.00
Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) 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			0.00
Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) 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			1.00
Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) 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			0.00
Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) 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	+		0.00
Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5) Nos. 0 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			0.00
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 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			0.00
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 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	+		0.00
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		otal	7.00
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)			
Old Port road (Road no 1) Old Kent road (Road no 2) Nos. 5 Nos. 33			5.00
Old Kent road (Road no 2) Nos. 33 Pandeshwar new road (Road no 3) Nos. 11	+		33.00 11.00
Bollar fisheries college road (Road no 4) Nos. 7	+		7.00
U 1 /	+		_
	+		22.00
Mangaladevi Temple Road (Road no 6) Nos. 47 Jeppu Market Road (Road no 8) Nos. 16	+		47.00 16.00
Gujjarkere Road (Road no 9) Nos. 33	+		33.00
Mulihithlu Road (Road no 5) Nos. 30	+	+	30.00

Sr.No.	Specification	Unit	No.	L	В	н	Quantity
					То	tal	204
	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						
1.4	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)						
	,						
	Old Port road (Road no 1)	Nos.	4				4.00
	Old Kent road (Road no 2)	Nos.	11				11.00
	Pandeshwar new road (Road no 3)	Nos.	0				0.00
	Bollar fisheries college road (Road no 4)	Nos.					
	Monkeystand New Road (Road no 7)	Nos.	5				5.00
	Mangaladevi Temple Road (Road no 6)	Nos.	10				10.00
	Jeppu Market Road (Road no 8)	Nos.					0.00
	Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5)	Nos.	6				0.00 6.00
		1105.	0		To	tal	36.00
					10	lai	30.00
	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.						
1.0	complete						
	Double Cross arm - 1500 mm						
	Old Port road (Road no 1)	Nos.	4				4.00
	Old Kent road (Road no 2)	Nos.	0				0.00
	Pandeshwar new road (Road no 3)	Nos.	0				0.00
	Bollar fisheries college road (Road no 4)	Nos.	0				0.00
	Monkeystand New Road (Road no 7)	Nos.	0				
	Mangaladevi Temple Road (Road no 6)	Nos.	0				0.00
	Jeppu Market Road (Road no 8)	Nos.	0				0.00
	Gujjarkere Road (Road no 9)	Nos.	0				0.00
	Mulihithlu Road (Road no 5)	Nos.	0				0.00
					То	tal	4.00
	Cumplying and fiving of hot dip Columnad M. Character						
	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)						
	Old Port road (Road no 1)	Nos.	7	1			7.00
	Old Kent road (Road no 2)	Nos.	33				33.00
	Pandeshwar new road (Road no 3)	Nos.	11				11.00
	Bollar fisheries college road (Road no 4)	Nos.	8				8.00
	Monkeystand New Road (Road no 7)	Nos.	22				22.00
	Mangaladevi Temple Road (Road no 6)	Nos.	47				47.00
	Jeppu Market Road (Road no 8)	Nos.	16				16.00
	Gujjarkere Road (Road no 9)	Nos.	33				33.00
	Mulihithlu Road (Road no 5)	Nos.	30				30.00
				1	То	tal	207

2 2.1	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) Old Port road (Road no 1) Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5)	Nos. Nos. Nos. Nos. Nos. Nos. Nos.	6 0 0 1 0 0 0			6.00 0.00 0.00 1.00 0.00
2 2.1	including coping/footing of the poleabove 5.5 mtr to 7.5 mtr (Ref Electrical SOR SI No.16.28.2) Old Port road (Road no 1) Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5)	Nos. Nos. Nos. Nos. Nos. Nos.	0 0 1 0 0 0			0.00 0.00 1.00 0.00
2 2.1	mtr (Ref Electrical SOR SI No.16.28.2) Old Port road (Road no 1) Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5)	Nos. Nos. Nos. Nos. Nos. Nos.	0 0 1 0 0 0			0.00 0.00 1.00 0.00
2 2.1	(Ref Electrical SOR SI No.16.28.2) Old Port road (Road no 1) Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5)	Nos. Nos. Nos. Nos. Nos. Nos.	0 0 1 0 0 0			0.00 0.00 1.00 0.00
2 2.1	Old Port road (Road no 1) Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5)	Nos. Nos. Nos. Nos. Nos. Nos.	0 0 1 0 0 0			0.00 0.00 1.00 0.00
2 2.1	Old Kent road (Road no 2) Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5)	Nos. Nos. Nos. Nos. Nos. Nos.	0 0 1 0 0 0			0.00 0.00 1.00 0.00
2 2.1	Pandeshwar new road (Road no 3) Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5)	Nos. Nos. Nos. Nos. Nos.	0 1 0 0 0			0.00 1.00 0.00
2 2.1	Bollar fisheries college road (Road no 4) Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5)	Nos. Nos. Nos. Nos.	1 0 0 0			1.00 0.00
2 2.1	Monkeystand New Road (Road no 7) Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5)	Nos. Nos. Nos.	0 0 0 0			0.00
2 2.1	Mangaladevi Temple Road (Road no 6) Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5)	Nos. Nos.	0 0			_
2 2.1	Jeppu Market Road (Road no 8) Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5)	Nos.	0			0.00
2 2.1	Gujjarkere Road (Road no 9) Mulihithlu Road (Road no 5)	Nos.	0			0.00
2 2.1	Mulihithlu Road (Road no 5)					0.00
2 2.1						0.00
2.1	Lighting Panel			To	tal	7.00
2.1	Lighting i and					
2.1	Supply, installation, testing and commissioning of					+
	outdoor junction box for mounting MCB/Contactors with					
1	all required accessories and componenets					
	Old Port road (Road no 1)	Nos.	4			4.00
	Old Fort road (Road no 1) Old Kent road (Road no 2)	Nos.	14			14.00
	Pandeshwar new road (Road no 3)	Nos.	5			5.00
	Bollar fisheries college road (Road no 4)	Nos.	<u></u>			1.00
	Monkeystand New Road (Road no 7)	Nos.	3			3.00
	Mangaladevi Temple Road (Road no 6)	Nos.	5			5.00
	Jeppu Market Road (Road no 8)	Nos.	4			4.00
	Gujjarkere Road (Road no 9)	Nos.	4			4.00
	Mulihithlu Road (Road no 5)	Nos.	8			8.00
	The manual reduction of	1100.		To	tal	48
	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)					
	Old Port road (Road no 1)	Nos.	4			4.00
	Old Kent road (Road no 2)	Nos.	14			14.00
	Pandeshwar new road (Road no 3)	Nos.	5			5.00
	Bollar fisheries college road (Road no 4)	Nos.	1			1.00
	Monkeystand New Road (Road no 7)	Nos.	3			3.00
	Mangaladevi Temple Road (Road no 6)	Nos.	5			5.00
	Jeppu Market Road (Road no 8)	Nos.	4			4.00
	Gujjarkere Road (Road no 9)	Nos.	4			4.00
	Mulihithlu Road (Road no 5)	Nos.	8			8.00
				To	tal	48
3	LT Cable					
	Supplying of 1.1 kV LT cable having aluminium				<u> </u>	+
	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)					

Sr.No.	Specification	Unit	No.	L	В	Н	Quantity
	Old Port road (Road no 1) (Considering 25% more length for looping)	m	2	581			1163
	Old Kent road (Road no 2)(Considering 25% more length for looping)	m	2	1038			2075
	Pandeshwar new road (Road no 3) (Considering 25% more length for looping)	m	2	350			700
	Bollar fisheries college road (Road no 4) (Considering 25% more length for looping)	m	2	188			375
	Monkeystand New Road (Road no 7) (Considering 25% more length for looping)	m	2	674			1348
	Mangaladevi Temple Road (Road no 6) (Considering 25% more length for looping)	m	2	1038			2075
	Jeppu Market Road (Road no 8)(Considering 25% more length for looping)	m	2	281			563
	Gujjarkere Road (Road no 9) (Considering 25% more length for looping)	m	2	806			1613
	Mulihithlu Road (Road no 5) ((Considering 25% more length for looping)	m	2	1150			2300
	Jones Coping)				To	tal	12210
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)						
	Old Port road (Road no 1)						
	7 mtr high pole	m	11	14			154.00
	4m high pole	m	4	8			32.00
	Old Kent road (Road no 2)						
	7m high pole	m	33	14			462.00
	4m high pole	m	11	8			88.00
	Pandeshwar new road (Road no 3)		4.4	1.1			154.00
	7m high pole	m	11	14			154.00
	4m high pole Bollar fisheries college road (Road no 4)	m	0	8			0.00
	7 mtr high pole	m	8	14			112.00
	Monkeystand New Road (Road no 7)			17			112.00
	7 mtr high pole	m	22	14			308.00
	4 mtr high pole	m	5	8			40.00
	Mangaladevi Temple Road (Road no 6)						10.00
	7 mtr high pole	m	47	14			658.00
	4 mtr high pole	m	10	8			80.00
	Jeppu Market Road (Road no 8)						
	7 mtr high pole	m	16	14			224.00
	Gujjarkere Road (Road no 9)						
	7 mtr high pole	m	33	14			462.00
	Mulihithlu Road (Road no 5)						
	7 mtr road	m	30	14			420.00
	4 mtr high pole	m	0	8			0.00
					To	tal	3194
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			
	Old Port road (Road no 1) 7 mtr high pole	Nos.	11	8			88.00
			. 44				

Sr.No.	Specification	Unit	No.	L	В	н	Quantity
	Old Kent road (Road no 2)						
	7m high pole	Nos.	33	8			264.00
	4m high pole	Nos.	11	8			88.00
	Pandeshwar new road (Road no 3)						
	7m high pole	Nos.	11	8			88.00
	4m high pole	Nos.	0	8			0.00
	Bollar fisheries college road (Road no 4)						
	7 mtr high pole	Nos.	8	8			64.00
	Monkeystand New Road (Road no 7)						
	7 mtr high pole	Nos.	22	8			176.00
	4 mtr high pole	Nos.	5	8			40.00
	Mangaladevi Temple Road (Road no 6)						
	7 mtr high pole	Nos.	47	8			376.00
	4m high pole	Nos.	10	8			80.00
	Jeppu Market Road (Road no 8)						
	7 mtr high pole	Nos.	16	8			128.00
	Gujjarkere Road (Road no 9)						
	7 mtr high pole		33				
	Mulihithlu Road (Road no 5)						
	7 mtr road	Nos.	30	8			240.00
	4 mtr high pole	Nos.	0	8			0.00
					To	tal	1664
	Cumplying tipped copper lugg and primping and wiring to						
	Supplying tinned copper lugs and crimping and wiring to						
3.4	terminal point for wire of following sizes 2.5 sq. mm copper conductor						
0. 1							
	(Ref Electrical SOR SI No.7.21.2)						
	Old Port road (Road no 1)						
	7 mtr high pole	Nos.	11	6			66.00
	4m high pole	Nos.	4	6			24.00
	Old Kent road (Road no 2)						
	7m high pole	Nos.	33	6			198.00
	4m high pole		11	6			66.00
	Pandeshwar new road (Road no 3)						00.00
	7m high pole	Nos.	11	6			66.00
	4m high pole		0	6			0.00
	Bollar fisheries college road (Road no 4)						0.00
	7 mtr high pole	Nos.	8	6			48.00
	Monkeystand New Road (Road no 7)	11001					10.00
	7 mtr high pole	Nos.	22	6			132.00
	4 mtr high pole	Nos.	5	6			30.00
	Mangaladevi Temple Road (Road no 6)	1100.					00.00
	7 mtr high pole	Nos.	47	6			282.00
	4 mtr high pole	Nos.	10	6			60.00
	Jeppu Market Road (Road no 8)	1100.					00.00
	7 mtr high pole	Nos.	16	6			96.00
	Gujjarkere Road (Road no 9)	1403.	10				30.00
	7 mtr high pole	Nos.	33	6	+		198.00
	Mulihithlu Road (Road no 5)	1105.	55	0			190.00
	7 mtr road	Nos.	30	6			180.00
	4 mtr high pole			6			
	rania nigri pole	Nos.	0	О	To	tal	0.00 1446
					10	ıaı	1440

Sr.No.	Specification	Unit	No.	L	В	н	Quantity
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						
7.1	toxic, weather resistance and capable of achieving ohmic value less than one ohm (Ref Electrical SOR Pg.No.64,SI No.7.23.6)						
	Old Port road (Road no 1)	Nos.	4	2			8.00
	Old Kent road (Road no 2)	Nos.	14	2			28.00
	Pandeshwar new road (Road no 3)	Nos.	5	2			10.00
	Bollar fisheries college road (Road no 4)	Nos.	1	2			2.00
	Monkeystand New Road (Road no 7)	Nos.	3	2			6.00
	Mangaladevi Temple Road (Road no 6)	Nos.	5	2			10.00
	Jeppu Market Road (Road no 8)	Nos.	4	2			8.00
	Gujjarkere Road (Road no 9)	Nos.	4	2			8.00
	Mulihithlu Road (Road no 5)	Nos.	8	2			16.00
					To	otal	96
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)						
	Old Port road (Road no 1)	m	2	512			1023.00
	Old Kent road (Road no 2)	m	2	913			1826.00
	Pandeshwar new road (Road no 3)	m	2	308			616.00
	Bollar fisheries college road (Road no 4)	m	2	165			330.00
	Monkeystand New Road (Road no 7)	m	2	593			1185.80
	Mangaladevi Temple Road (Road no 6)	m	2	913			1826.00
	Jeppu Market Road (Road no 8)	m	2	248			495.00
	Gujjarkere Road (Road no 9)	m	2	710			1419.00
	Mulihithlu Road (Road no 5)	m	2	1012			2024.00
					To	tal	10745
5	Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required RA attached	No	0				0.00
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	0				0.00

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	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))									
	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 leaders of the Cotagonal pole with BSE 10025 grade S 355 2062 for base plate with oor opening arrangements.	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. o 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 su single jo tom 158 f lon nized in	uitable for wing bint welded as 5 mm dia, top g J bolts alon single dipping	ole boards, d speed of per IS 70 mm with g with g with not						
1.3	bakelite sheet and MCBs as per IS specifical 47 m/sec for 5 m pole in single section and section and single section and single section and single section and single section and secti	tions su single jo tom 158 f lon nized in	uitable for wing bint welded as 5 mm dia, top g J bolts alon single dipping	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.S.bracket Suitable for outdoor luminaries and mounted on Octagonal pole using necessary bolts,nuts, etc.							
	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)		the old paint a of the polea	bove 5.5				
	Basic rate		620					
		Rate	620	Nos.				
2	Out door have and switch goes							
2.1	Out door box and switch gear 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.				

2.2	Supply and fixing of miniature circuit breake necessasary fixing material and 'C' type curveross-3 with short circuit breaking capacity of required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5)	e, indic	ator ON/OFF,	energy				
	Basic rate		1547					
		Rate	1,547	Nos.				
3	LT Cable							
3.1	Supplying of 1.1 kV LT cable having alumini extruded inner sheathed, galvanised, steel sextruded PVC outer sheathed armoured cable accompany to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conduct (Ref Electrical SOR SI No.7.5,7.5.4)	strips as ole as po	s per IS-3975:	1990 and				
	Basic rate		117					
		Rate	117	Rm				
0.0	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)							
3.2	1100 V as per IS-694:1990 and conforming		•	age up to				
3.2	1100 V as per IS-694:1990 and conforming		•					
3.2	1100 V as per IS-694:1990 and conforming 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)		of Group A. 81.6					
3.2	1100 V as per IS-694:1990 and conforming 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	to GTF	9 of Group A. 81.6 81.60	Rm				
	1100 V as per IS-694:1990 and conforming 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	to GTF	9 of Group A. 81.6 81.60	Rm				
	1100 V as per IS-694:1990 and conforming 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)	to GTF	81.6 81.60 ng to terminal	Rm				
	1100 V as per IS-694:1990 and conforming 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	81.6 81.60 ng to terminal	Rm point for Nos.				
3.3	1100 V as per IS-694:1990 and conforming 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	81.6 81.60 81.31 11.31 11.31 13.12	Rm point for Nos. point for				
3.3	1100 V as per IS-694:1990 and conforming 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	81.6 81.60 81.31 11.31 ng to terminal	Rm point for Nos.				

6	accessories etc. as required. Above 6.5 meter and upto 8.0 meter	,	J, 1	,				
	concrete 1 :3:6 (1 cement : 3 coarse sand : 6 mm nominal size) foundation including excav	grade	d stone aggre	gate 40				
	Erection of 7 mtr high mast metallic pole of fo	Rate ollowing	2,541 a lenath in cer	Nos. nent				
5	Dismantling of 7 mtr high mast pole/ strut emfoundation etc. as required RA attached	nbedde	d in cement co	oncrete				
	Basic rate	Rate	19.5 19.50					
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)							
		Rate	5500.00	Kit				
	Basic rate	Data	5500	17:4				
4.1	Chemical Earthing for grounding, conduits, IC other equipments on the mter boardby using cenhancing backfill compound which is non continuous, 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				

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	PWD SOR 2018-19, 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	PWD SOR 2018-19, 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%	1			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	
	Dismantling of 7 mtr high mast pole/ strut embedded in					
5	cement concrete foundation etc. as required					
	Line man	day	1	486.20	486.20	PWD SOR 2018-19, 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					
	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 6

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)		96.48	140.00	13,507	
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	47.52	224.40	10,663	
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	144.00	113.30	16,315	
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	144.00	23.91	3,443	
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	240.00	17.60	4,224	
	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	240.00	17.60	4,22	<u>'</u> 4

Sr.No.	Specifications	Unit	Quantity	Rate	Amount	Remarks
1.2	TURF					
1.2.1	ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	240.00	156.80	37,632	
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	240.00	560.00	134,400	
			Total		2,20,184	

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

31,202 3744

Executive Engineer MSCL Mangaluru

Name of the Work :- Manglore Smart City 3.1.1 Measurement Sheet of softscape for DPR 6

Sr.No.	Item	Unit	No.	L	В	Н	Qty.
1.1	SOIL MIXES and Ground Preparation						
	Supplying and stacking of good earth at site						
	including royalty and carriage upto 5 k.m. lead						
1.1.1	complete (earth measured in stacks will be						
	reduced by 20% for payment).						
	(Non SOR Item)						
	Road	Cum	0.67	24.00	Area	0.60	9.65
	Road	Cum	0.67	42.00	Area	0.60	16.88
	median	Cum	0.67	290.00	0.60	0.60	69.95
	Consider 2/3rd Qty of Item No.1.1.7	Cum					96.48
	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						
1.1.2	the engineer in charge including screening and						
1.1.2	stackin complete as per specifications. MORTH						
	Specification No. 308.2(Page						
	No.152,SI.No.19.90)						
	Road	Cum	0.33	24	Area	0.6	4.75
	Road	Cum	0.33	42	Area	0.6	8.32
	median	Cum	0.33	290	0.6	0.6	34.45
	Consider 1/3rd Qty of Item No.1.1.7	Cum					47.52
	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						
1.1.3	separately) complete as per specifications.						
	MORTH Specification No. 307						
	(KPWD SR 16-17,Page No.150,SI No.19.77)						
	, ,						
	Road	Cum	1	24	Area	0.6	14.40
	Road	Cum	1	42	Area	0.6	25.20
	median	Cum	1	290	0.6	0.6	104.40
					_	Total	144.00
	MC to a self-real day						
	Mixing earth and sludge or manure in the						
1.1.4	required proportion specified or directed by the						
	Officer-in-charge (Non SOR item)						
	` '						444.00
	Consider Same Qty. of 1.1.7	Cum					144.00

Sr.No.	ltem	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						
	Road	Sqm	1	24.00	Area		24.00
	Road	Sqm	1	42.00	Area		42.00
	median	Sqm	1	290.00	0.6		174.00
						Total	240.00
1.1.6	ZOYSIA JAPONICA (MAT)						
	(Non SOR Item)						
	Road	Sqm	1	24	Area		24.00
	Road	Sqm	1	42	Area		42.00
	median	Sqm	1	290	0.6		174.00
						Total	240.00
1.2	IDDICATION						
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.						
4.0.4	(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)						
							0.4.5.5
	Road	Sqm	1	24	Area		24.00
	Road	Sqm	1	42	Area		42.00
	median	Sqm	1	290	0.6	Total	174.00
			l	l	ĺ	Total	240.00

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

Name of the Work :- Manglore Smart City 3.1.2 Rate Analysis of SOFTSCAPE for DPR 6

RATE ANALYSIS - SOFTSCAPE

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)									
	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-yard 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. Sequired to be cification	Spreading thicknes paid for n No. 307	g of sludge ss (cost of separately)						
	Basic rate		103							
	Add 10% For area wightage	D .	10.3							
		Rate	113.30	I.						
1.1.4	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 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					
	riaa 1070 For area mgmage	Rate	17.60					
		110.00		94				
1.2	TURF							
1.2								
1.2.1	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							
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							
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.34	Rate	560.00	Sam				

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

Manglore Smart City 4.1.1 Rate Analysis for Kerb Stone

Sr.N	Description	Unit	Qty	Rate/Unit	Amount	Remarks
ο.	·					
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] + (0.25x0.165x0.005) = 0.062cum. Cement mortar 1:3 (1 cement : 3 coarse sand)	Cum	0.032	5666.00	181.31	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	1
	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 (Vol of one Kerb)				24	Per No

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

One Precast Kerb Stone Rate	Qty.	Unit	Rate	Amount	SOR Item
One Frecast Kerb Stone Rate	Qty.	Onit	rate		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	M
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
	<u>-</u>	Total	0.60

0.60 Sqm

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Manglore Smart City 4.0 Rate Analysis for Kerb Stone

Sr.N o.	Description	Unit	Qty	Rate/Unit	Amount	Remarks
	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) = 0.062cum.	Cum	0.032	5666.00	181.31	KSRB 1.3
	Cement mortar 1:3 (1 cement : 3 coarse sand)					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				78314.90	
-	Add 1 % Water charges				783.15	
-	Add 10 9/ Contractor's profit				79098.05 7909.81	
-	Add 10 % Contractor's profit Add 10% Contractor Overhead				7909.81	
-	Cost of 6.22cum				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
	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					
						Rate
	Precast C.C. Kerb stone M - 20	Cum	2.630	14622.97	38458.42	attached
	Shuttering Work					
	Mortar 1:3 for fixing joints = 223x1x					KSRB 1.3
	[((0.075+0.1)/2)*0.3*0.005] = 0.029 cum.	Cum	0.029	6996.00	202.88	Pg No 2
	Cement mortar 1:3 (1 cement : 3 coarse sand)			100.00	202.42	. 9
	Mason (brick layer) 1st class	day	2.000	466.20	932.40	KCDD
	Mason (brick layer) 2nd class Beldar	day	2.000	456.20	912.40 892.40	KSRB
	Coolie	day day	1.650	446.20 446.20	736.23	Pg No LIV
	Total	uay	1.000	440.20	42134.73	
	Add 1 % Water charges		1		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	Α
	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					
	Precast C.C. Kerb stone M - 20	Cum	25.500	14381.53	366729.05	Rate 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.				17708.82	Α
	Cost per Kerb of width 0.405m =A X 0.102cum (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 Remarks/ Description Unit Quantity Rate Rs Cost Rs 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) Labour a) SI.No.12.Pa Mate day 1.120 446.200 499.74 ge No.LIV, SI.No.6,Pag 446.200 Mazdoor skilled 6.000 2677.20 day e No.LIV, SI.No.6,Pag Mazdoor 22.000 446.200 9816.40 day e No.LIV, b) Machinery SI.No.26.Pa Front end loader 1 cum bucket capacity hour 6.000 593.00 3558.00 ge No.XXXXVII SI.No.104,P Cement concrete batch mix plant @ 75 cum per hour 6.000 1525.00 9150.00 hour age No.L SI.No.92,Pa 534.00 3204.00 Electric generator 100 KVA hour 6.000 ge No.XXXXIX SI.No.65,Pa Plate Compactor 1.000 254.00 254.00 Day No.XXXXVIII Water tanker6 KL capacity 8.000 550.00 4400.00 hour Tipper tonne.k 990 x L 4.00 39600.00 Add 10 per cent of cost of carriage to cover cost of 3960.00 loading and unloading Material c) Crushed stone coarse aggregate of 25 mm and 12.5 mm nominal sizes graded as per table 600-1 @ 0.90 405.000 1460.00 591300.00 cum 800.00 cum/cum of concrete conforming to clause 602.2.4. Coarse Sand as per IS: 383 @ 0.45 cum/cum of 203.000 1700.00 345100.00 800.00 cum concrete 4906.00 84.00 Cement @ 160 kg/cum of concrete tonne 72.000 353232.00 Cost of water KL 48.000 40.00 1920.00 818.00 Overhead charges @ 10 % on (a+b+c) 136867.13 Contractor's profit @ 10 % on (a+b+c+d) 150553.85 1656092.33 Cost for 450 cum = a+b+c+d+eRate per cum = (a+b+c+d+e)/4503680.21 3680.00 sav Quantity provided for aggregate is for estimating Note

Executive Engineer MSCL Mangaluru

purpose. Exact quantity shall be as per mix design.

Name of the Work :- Mangalore Smart City

4.4 Rate Analysis for Granular Sub Base under Footpath

	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	
			9.5 mm to 2.36 mm @ 20 per cent	cum	57	1340	76380	
			2.36 mm below @ 30 per cent	cum	86.4	1150	99360	M-020 Page
444		(2)	Cost of water	KL	27	40	1080	No.V,SI.No.758
4.1A	-	(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	2400	

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	3,952,443.00							
2	3rd year Maintenance	4,131,423.00							
3	4th year Maintenance	4,237,590.00							
	Total Maintenance Amount	12,321,456.00							
	GST @12% for Maintenance Period on SOR Base Items	901,868.00							
	GST @12% for Maintenance Period on Market Base Items	272,081.00							
	Total	13,495,405.00							

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 6-1st Year

	5.1 Abstract for Maintenance of Road and Other Wor	K IOI DI	I O 13t 1Ca		
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)		0.27	1028.46	,278
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 18-19,18.20,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	0.02	401.54	8
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)		350.00	57.60	20,160
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 18-19,SI No.2.11,Pg. No.6)	Cum	250.00	137.28	34,320

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
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 18-19,SI No.19.64,Pg. No.149)		250.00	6.86	1,715
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 2018-19)		9.00	6749.60	60,746
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)	Cum	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)		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 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	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	14.70	4630.91	68,074
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	8.00	4209.92	33,679
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)		33.81	6595.16	2,22,982
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	5.00	119.60	,598
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	100.00	378.66	37,866

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)	Cum	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 2018-19,P.No.86, SI.No.12.89)	Nos.	5.00	949.52	4,748

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 2018-19,SI.No.24.36)	Rmt	8.00	5745.17	45,961
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)		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)		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	6.00	8967.82	53,807
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	1.60	10022.58	16,036
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.	50.00	330.62	16,531
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	4.00	63648.00	2,54,592
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	1452.22	186.16	2,70,345
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.	240.00	644.80	154,752
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.	70.00	12254.24	857,797
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
	Earthing system Maintenance for 1st Year:				
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 (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
				39,63,351	

GST SOR Item Total 16,41,721 197007 Market Base Item 6,64,223 119560

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City 5.2 M.S. For Maintenance of Road and Other Work for DPR 6 -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)	Sqm	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	1	1	1	0.27	0.27
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 18-19,18.20,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)	Cum	1	1	0.2	0.1	0.02
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	7	0.5	350.00
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 18-19,SI No.2.11,Pg. No.6)	Cum	1.00	100	5	0.5	250.00
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 18-19,SI No.19.64,Pg. No.149)	Sqm	1.00	50		5	250.00

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 2018-19)	Cum	1.00	15	6	0.1	9.00
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)	Sqm	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	7	3.5	0.1	14.70

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	40	2	0.1	8.00
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 (Page No 176,SI No : 22.2.2)	Cum	6.00	7	3.5	0.23	33.81
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	5			5.00
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	100			100.00
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,SI 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,Sl 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 2018-19,P.No.86, SI.No.12.89)	Nos.	1.00	5			5.00
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	8.00			8.00
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	2.00	2.5	8	0.15	6.00
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	2.00	2.5	8	0.04	1.60
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.	50.00				50.00

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	4.00				4.00
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	10373	0.7	0.1	1452.22
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

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
	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				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
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				1.00
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				1.00
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				1.00
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.	240.00				240.00
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.	70.00				70.00
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				1.00
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	1	60.00			60.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
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	1	10.00			10.00
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				10.00
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				8.00
	Earthing system						
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						
	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	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)	Cum	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
	Soil preparation of Lawn Maintenance for 2nd Year: Maintenance of lawns or Turfing of slopes						
66.00	(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	1.00	382.19			382.19
	TURF						
67.00	Maintenance for 1st Year: ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	1	5	0.6		3.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
	IRRIGATION						
68.00	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)	Sqm	1	5	0.6		3.00

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City 5.3 R.A. For Maintenance of 1st Year- DPR 6

	Maintenance for 1st Year:			
		oontrol ve	orga including rar	noval of rubbial
	Taking out existing CC interlocking paver blocks from footpath/		-	
1	etc., disposal of unserviceable material to the dumping ground, for			
	and stacking of serviceable material within 50 metre lead as	per aire	ction of Engineer	-in-Charge.(R
	attached)			
	Basic rate		68.16	
	Maintenance -1st year escalation of 4%		2.73	
	Add 10% For area weightage (Mangalore City)		7.09	
		Rate	77.98	Sqm
	Maintenance for 1st Year:			
	KSRRB M200.Dismantling of cement concrete pavement by	ov mech	anical means u	sing pueumat
	tools, breaking to pieces not exceeding 0.02 cum in volume and	•		• .
2	disposal of dismantled material stacking serviceble and unservice			
2	specifications.MORTH specification No.202.(Including transporting			
	5km-Extra)	ig onlarge	55,10dding and an	loading for loc
	(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	
		Rate	1028.46	Cum
	Maintenance for 1st Year:			
	KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M	200-26. D	Dismantling Kerb s	tone by Manua
3	means and disposal of dismantled materials with all lifts and comp			
O	Specification No.202.			
	(Page No.139,S.I.No.18.49)			
	,	1	1	T
	Basic rate		12.00	
	Maintenance -1st year escalation of 4%		0.48	
			0.48 1.25	
	Maintenance -1st year escalation of 4%	Rate	0.48	
	Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City)	Rate	0.48 1.25	
	Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year:		0.48 1.25 13.73	Rmt
	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	, bridges,	0.48 1.25 13.73 retaining walls an	Rmt d other structu
	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 world	, bridges,	0.48 1.25 13.73 retaining walls anng T&P and scaff	Rmt d other structure folding wherever
4	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	, bridges,	0.48 1.25 13.73 retaining walls anng T&P and scaff	Rmt d other structure folding wherev
4	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 world	, bridges, k, includir	0.48 1.25 13.73 retaining walls anng T&P and scafferial and stacking	Rmt d other structure folding wherever the serviceab
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4	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 worl necessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. II. By Mechar 15 &M-20. MORTH Specification No. 202 (KPWD SOR 18-19,18.2 Basic rate Maintenance -1st year escalation of 4%	, bridges, k, includii able mat nical Mea	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 structure folding wherever the serviceab ncrete Grade N
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	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 work necessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. II. By Mechar 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 work 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 Maintenance -1st year escalation of 4%	, bridges, k, including able mat hical Mean (0,Page Nate) Rate , bridges, k, including	0.48 1.25 13.73 retaining walls an ng T&P and scaff erial and stacking ns. A. Cement Colo.137) 390 15.6 40.56 446.16 retaining walls an ng T&P and scaff erial and stacking and stacking and stacking 351 14.04	Rmt d other structure folding wherever the serviceable ncrete Grade Market Grade M
	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 work necessary, sorting the dismantled material, disposal of unservice material with all lifts complete as per specifications. II. By Mechar 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 work 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	, bridges, k, including able mat hical Mean (0,Page Nate) Rate , bridges, k, including	0.48 1.25 13.73 retaining walls an ang T&P and scaff erial and stacking as. A. Cement Colo.137) 390 15.6 40.56 446.16 retaining walls an ang T&P and scaff erial and stacking	Rmt d other structur folding whereve the serviceabl ncrete Grade M Cum d other structur folding whereve the serviceabl

Maintenance for 1st Year: KSRRB M300-14. Excavation for roadwork in all types of including cutting and loading in tippers,trimming bottom a lines and grades and cross sections,and transporting dispass per specifications. MORTH specification No.301(Including transporting charge)								
including cutting and loading in tippers,trimming bottom a lines and grades and cross sections,and transporting disp as per specifications. MORTH specification No.301(Including transporting charg		excavator of 0.9	hucket canacity					
6 lines and grades and cross sections, and transporting disp as per specifications. MORTH specification No.301(Including transporting charg	nd eida elanae in							
as per specifications. MORTH specification No.301(Including transporting charg								
MORTH specification No.301(Including transporting charg	osai location up i	to a lead of 1.00K	in and complete					
		alaadina famlaad F	'Long'					
1/D N. 440 OLN. 40 44)	es, loading and ur	nioading for lead 5	okm)					
(Page No 143,SI No : 19.14)								
Basic rate		41						
		10.24						
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 layers	not exceeding (20cms in denth					
7 compacting each deposited layer by ramming after watering								
cost of all labour complete as per specifications.(KPWD 18			1.5 m. moluding					
	5-19,31 NO.2.11,P	<u> </u>	1					
Basic rate		120						
Maintenance -1st year escalation of 4%		4.8						
Add 10% For area weightage (Mangalore City)		12.48						
	Rate	137.28	Cum					
Maintenance for 1st Year:	l l							
KSRRB 300-Compaction KSRRB 300-58. Compaction of	original ground wit	h maximum of 6 r	passes of 8 to					
1 1404								
	10 tonnes power roller including filling in depression occurring 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)							
of machinery complete as per specifications, worth / Ch	apiei 3.(KPWD i	0-19,31110.19.04,	rg. No. 149)					
Basic rate		6						
Maintenance -1st year escalation of 4%		0.24						
Maintenance -1st year escalation of 4%	Rate	0.24 0.62						
Maintenance -1st year escalation of 4%	Rate	0.24 0.62						
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City)	Rate	0.24 0.62						
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year:		0.24 0.62 6.86	Sqm					
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cer	nent concrete of	0.24 0.62 6.86 mix M15 Grade	Sqm with cement @					
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cer 240kgs, with 20mm and down size graded granite metal	ment concrete of coarse aggregate	0.24 0.62 6.86 mix M15 Grade s @ 0.69 cum an	Sqm with cement @d fine aggregtes					
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cer 240kgs, with 20mm and down size graded granite metal @ 0.459cum, machine mixed, concrete laid in layers	nent concrete of coarse aggregate not exceeding 15	0.24 0.62 6.86 mix M15 Grade s @ 0.69 cum an 5 cms. thick, wel	Sqm with cement @ d fine aggregtes I compacted, in					
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Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cer 240kgs, with 20mm and down size graded granite metal @ 0.459cum, machine mixed, concrete laid in layers foundation, plinth and cills, ncluding cost of all materials, specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.	nent concrete of coarse aggregate not exceeding 15 labour, HOM of n	0.24 0.62 6.86 mix M15 Grade s @ 0.69 cum an c cms. thick, well nachinery, curing R 2018-19)	with cement @ d fine aggregtes I compacted, in complete as per					
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Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cer 240kgs, with 20mm and down size graded granite metal @ 0.459cum, machine mixed, concrete laid in layers foundation, plinth and cills, ncluding cost of all materials, specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I. Basic Rate Maintenance -1st year escalation of 4%	ment concrete of coarse aggregate not exceeding 15 labour, HOM of n No. 4.6 of PWD S	0.24 0.62 6.86 mix M15 Grade s @ 0.69 cum an 5 cms. thick, wel nachinery, curing R 2018-19) 5900 236 613.6	with cement @ d fine aggregtes I compacted, in complete as per					
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cer 240kgs, with 20mm and down size graded granite metal @ 0.459cum, machine mixed, concrete laid in layers foundation, plinth and cills, ncluding cost of all materials, specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I. Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City)	ment concrete of coarse aggregate not exceeding 15 labour, HOM of nNo. 4.6 of PWD S	0.24 0.62 6.86 mix M15 Grade s @ 0.69 cum an 5 cms. thick, well nachinery, curing R 2018-19) 5900 236 613.6 6749.60	Sqm with cement @ d fine aggregtes I compacted, in complete as per					
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cer 240kgs, with 20mm and down size graded granite metal @ 0.459cum, machine mixed, concrete laid in layers foundation, plinth and cills, ncluding cost of all materials, specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I. Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M400-6.1. Construction of granular sub-base by granite / trap / basalt material, mixing in a mechaical mixing in a mech	ment concrete of coarse aggregate not exceeding 15 labour, HOM of n No. 4.6 of PWD S	0.24 0.62 6.86 mix M15 Grade s @ 0.69 cum an c cms. thick, well nachinery, curing R 2018-19) 5900 236 613.6 6749.60	with cement @ d fine aggregtes I compacted, in complete as per Cum					
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cer 240kgs, with 20mm and down size graded granite metal @ 0.459cum, machine mixed, concrete laid in layers foundation, plinth and cills, ncluding cost of all materials, specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I. Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M400-6.1. Construction of granular sub-base by granite / trap / basalt material, mixing in a mechaical mixing in a mech	nent concrete of coarse aggregate not exceeding 15 labour, HOM of not not exceeding 15 labour not exceeding 15 labour not not exceeding 15 labour not exceed 15	0.24 0.62 6.86 mix M15 Grade s @ 0.69 cum an c cms. thick, wel nachinery, curing R 2018-19) 5900 236 613.6 6749.60 added crushed stor	with cement @ d fine aggregates I compacted, in complete as per Cum					
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cer 240kgs, with 20mm and down size graded granite metal @ 0.459cum, machine mixed, concrete laid in layers foundation, plinth and cills, ncluding cost of all materials, specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I. Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M400-6.1. Construction of granular sub-base by granite / trap / basalt material, mixing in a mechaical mix site, spreading in uniform layers with motor grader on prepared.	nent concrete of coarse aggregate not exceeding 15 labour, HOM of not not exceeding 15 labour, HOM of not exceeding 15 labour, HOM of not exceed surface and coarsed surface and coarsed surface and coarsed surface aggregates.	mix M15 Grade s @ 0.69 cum an c cms. thick, wel nachinery, curing R 2018-19) 5900 236 613.6 6749.60 added crushed stor carriage of mixed	with cement @ d fine aggregates I compacted, in complete as per Cum ne aggregates of material to work Plate compactor					
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cer 240kgs, with 20mm and down size graded granite metal @ 0.459cum, machine mixed, concrete laid in layers foundation, plinth and cills, ncluding cost of all materials, specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I. Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M400-6.1. Construction of granular sub-base by granite / trap / basalt material, mixing in a mechaical mix site, spreading in uniform layers with motor grader on prepto achieve the desired density, complete as per specification.	nent concrete of coarse aggregate not exceeding 15 labour, HOM of not not exceeding 15 labour, HOM of not exceeding 15 labour, HOM of not exceed surface and coarsed surface and coarsed surface and coarsed surface aggregates.	mix M15 Grade s @ 0.69 cum an c cms. thick, wel nachinery, curing R 2018-19) 5900 236 613.6 6749.60 added crushed stor carriage of mixed	with cement @ d fine aggregates I compacted, in complete as per Cum ne aggregates of material to work Plate compactor					
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cer 240kgs, with 20mm and down size graded granite metal @ 0.459cum, machine mixed, concrete laid in layers foundation, plinth and cills, ncluding cost of all materials, specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I. Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M400-6.1. Construction of granular sub-base by granite / trap / basalt material, mixing in a mechaical mix site, spreading in uniform layers with motor grader on pret to achieve the desired density, complete as per specifical sub-base material as per 400-1 For Grading-II Material	nent concrete of coarse aggregate not exceeding 15 labour, HOM of not not exceeding 15 labour, HOM of not exceeding 15 labour, HOM of not exceed surface and coarsed surface and coarsed surface and coarsed surface aggregates.	mix M15 Grade s @ 0.69 cum an c cms. thick, wel nachinery, curing R 2018-19) 5900 236 613.6 6749.60 added crushed storearriage of mixed c compacting with c Method Close	with cement @ d fine aggregates I compacted, in complete as per Cum Cum ne aggregates of material to work Plate compactor graded granular					
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cere 240kgs, with 20mm and down size graded granite metal © 0.459cum, machine mixed, concrete laid in layers foundation, plinth and cills, ncluding cost of all materials, specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I. Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M400-6.1. Construction of granular sub-base by geranite / trap / basalt material, mixing in a mechaical mix site, spreading in uniform layers with motor grader on preto achieve the desired density, complete as per specificat sub-base material as per 400-1 For Grading-II Material Basic Rate	nent concrete of coarse aggregate not exceeding 15 labour, HOM of not not exceeding 15 labour, HOM of not exceeding 15 labour, HOM of not exceed surface and coarsed surface and coarsed surface and coarsed surface aggregates.	mix M15 Grade s @ 0.69 cum an c cms. thick, wel nachinery, curing R 2018-19) 5900 236 613.6 6749.60 added crushed stor carriage of mixed c compacting with c Method Close	with cement @ d fine aggregates I compacted, in complete as per Cum ne aggregates of material to work Plate compactor graded granular					
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cer 240kgs, with 20mm and down size graded granite metal @ 0.459cum, machine mixed, concrete laid in layers foundation, plinth and cills, ncluding cost of all materials, specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I. Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M400-6.1. Construction of granular sub-base by granite / trap / basalt material, mixing in a mechaical mix site, spreading in uniform layers with motor grader on pret to achieve the desired density, complete as per specificat sub-base material as per 400-1 For Grading-II Material Basic Rate Maintenance -1st year escalation of 4%	nent concrete of coarse aggregate not exceeding 15 labour, HOM of not not exceeding 15 labour, HOM of not exceeding 15 labour, HOM of not exceed surface and coarsed surface and coarsed surface and coarsed surface aggregate to the coarsed surface aggregate in the coarse of the coars	mix M15 Grade s @ 0.69 cum an c cms. thick, wel nachinery, curing R 2018-19) 5900 236 613.6 6749.60 added crushed stor carriage of mixed c compacting with c Method Close 2166 86.64	with cement @ d fine aggregtes I compacted, in complete as per Cum ne aggregates of material to work Plate compactor graded granular					
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cere 240kgs, with 20mm and down size graded granite metal © 0.459cum, machine mixed, concrete laid in layers foundation, plinth and cills, ncluding cost of all materials, specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I. Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M400-6.1. Construction of granular sub-base by genite / trap / basalt material, mixing in a mechaical mix site, spreading in uniform layers with motor grader on preto achieve the desired density, complete as per specificate sub-base material as per 400-1 For Grading-II Material Basic Rate	nent concrete of coarse aggregate not exceeding 15 labour, HOM of not not exceeding 15 labour, HOM of not exceeding 15 labour, HOM of not exceed a providing close grad plant at OMC, coared surface and ions. A. Plant Mix	mix M15 Grade s @ 0.69 cum an c cms. thick, well nachinery, curing R 2018-19) 5900 236 613.6 6749.60 added crushed store carriage of mixed at compacting with a Method Close 2166 86.64 225.26	with cement @ d fine aggregtes I compacted, in complete as per Cum ne aggregates of material to work Plate compactor graded granular					
Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cer 240kgs, with 20mm and down size graded granite metal @ 0.459cum, machine mixed, concrete laid in layers foundation, plinth and cills, ncluding cost of all materials, specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I. Basic Rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M400-6.1. Construction of granular sub-base by granite / trap / basalt material, mixing in a mechaical mix site, spreading in uniform layers with motor grader on pret to achieve the desired density, complete as per specificat sub-base material as per 400-1 For Grading-II Material Basic Rate Maintenance -1st year escalation of 4%	nent concrete of coarse aggregate not exceeding 15 labour, HOM of not not exceeding 15 labour, HOM of not exceeding 15 labour, HOM of not exceed surface and coarsed surface and coarsed surface and coarsed surface aggregate to the coarsed surface aggregate in the coarse of the coars	mix M15 Grade s @ 0.69 cum an c cms. thick, wel nachinery, curing R 2018-19) 5900 236 613.6 6749.60 added crushed stor carriage of mixed c compacting with c Method Close 2166 86.64	with cement @ d fine aggregtes I compacted, in complete as per Cum ne aggregates of material to work Plate compactor graded granular					

	Maintenance for 1st Year:								
	KSRB 4.2.1 : Providing and laying in position reiforcement ceme	ent concr	ete of design Mix	M25 with OPO					
	cement @340Kgs,with 20mm and down size graded granite meta								
11	plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 at machine mixed, concrete laid in layers no								
11	exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return								
	walls, walls (any thickness) including attached pilasters, colun								
	blocks,anchor blocks & plinths etc.,Including cost of labour,HOM	of machir	nery,curing,comple	ete but excludir					
	cost of reinforcement as per specifications.								
	(Page No 13,SI No : 4.10)			T					
	Basic Rate		6198						
	Maintenance -1st year escalation of 4%		247.92						
	Add 10% For area weightage (Mangalore City)		644.59						
		Rate	7090.51	Cum					
	Maintenance for 1st Year:								
	KSRB 4.6.1 Providing and removing centering, shuttering, strutting	, proppin	g etc.,and remova	l of formwork for					
	foundations, footings, bases of columns for mass concrete including								
12	per specifications.	3							
	Specification No. KSB 4.6.2								
	(Page No 15,SI No : 4.28)								
	Basic Rate		263	<u> </u>					
	Maintenance -1st year escalation of 4%		10.52						
	· · · · · · · · · · · · · · · · · · ·								
	Add 10% For area weightage (Mangalore City)	D . 1 .	27.35						
		Rate	300.87	Sqm					
40	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/or straighting.	or welding							
13	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc	or welding ssary con	nplete as per desig	gn (laps,hooks					
13	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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	or welding ssary con	nplete as per design of machinary con	gn (laps,hooks nplete as per					
13	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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.	or welding ssary con	nplete as per desig	gn (laps,hooks nplete as per					
13	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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	or welding ssary con	nplete as per design of machinary con	gn (laps,hooks nplete as per					
13	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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	or welding ssary con	nplete as per design of machinary con 70782	gn (laps,hooks nplete as per					
13	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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%	or welding ssary con	nplete as per design of machinary con 70782 2831.28	gn (laps,hooks nplete as per					
13	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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%	or welding ssary con our,HOM	nplete as per design of machinary con 70782 2831.28 7361.33	gn (laps,hooks nplete as per					
13	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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)	or welding ssary con our,HOM	nplete as per design of machinary con 70782 2831.28 7361.33	gn (laps,hooks nplete as per					
13	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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:	or welding ssary con our,HOM Rate	70782 2831.28 7361.33 80974.61	gn (laps,hooks nplete as per					
13	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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	or welding ssary con our, HOM Rate	70782 2831.28 7361.33 80974.61 sub-grade with ap	gn (laps,hooks nplete as per					
13	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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. KSRRB M300-55.	or welding ssary con our, HOM Rate ruction of grading t	70782 2831.28 7361.33 80974.61 sub-grade with age to required slope a	gn (laps,hooks nplete as per MT pproved materiand compacted					
	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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. KSRRB M300-55. Construction of Table No. 300-2 complete as per specificat	Rate ruction of grading tions (incl	70782 2831.28 7361.33 80974.61 sub-grade with application required slope auding cost of earth	gn (laps,hooks nplete as per MT pproved materiand compacted n, watering					
	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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 Gravel/Murrum with all lifts & leads, transporting to site, spreading, to meet requirement of Table No. 300-2 complete as per specificat charges & compaction by vibratory rollercompaction by vibratory ro	Rate ruction of grading tions (incl	70782 2831.28 7361.33 80974.61 sub-grade with application required slope auding cost of earth	gn (laps,hooks nplete as per MT pproved materiand compacted n, watering					
	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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. 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 No. 305	Rate ruction of grading tions (incl	70782 2831.28 7361.33 80974.61 sub-grade with appropriate slope action of proctors dense	mt proved materiand compacted n, watering sity) MORTH					
	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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. Spreading, to meet requirement of Table No. 300-2 complete as per specificat charges & compaction by vibratory rollercompaction by vibratory rollercompaction by vibratory rollercompaction No. 305 Basic Rate	Rate ruction of grading tions (incl	70782 2831.28 7361.33 80974.61 sub-grade with approximate the process of earth 2% of proctors dense	mr (laps,hooks aplete as per materiand compacted as more materiand compacted as watering sity) MORTH					
	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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. Specification of Site, spreading, to meet requirement of Table No. 300-2 complete as per specificat charges & compaction by vibratory rollercompaction by vibratory rollercompaction by vibratory rollercompaction No. 305 Basic Rate Maintenance -1st year escalation of 4%	Rate ruction of grading tions (incl	70782 2831.28 7361.33 80974.61 sub-grade with appropriate slope action of proctors dense	mr (laps,hooks aplete as per material compacted as more material compacted as watering sity) MORTH					
	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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 rollercompaction by vibratory rollercompaction No. 305 Basic Rate Maintenance -1st year escalation of 4% Add 20km lead (17.4 KSRRB M100-4.1-Cost of haulage excluding	Rate ruction of grading tions (incl	70782 2831.28 7361.33 80974.61 sub-grade with approximate to required slope actuding cost of earth 6% of proctors density 20.52	mr (laps,hooks aplete as per materiand compacted as more materiand compacted as watering sity) MORTH					
	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inc straighting, cutting, bending, hooking, placing in position, lapping and/o 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 rollercompaction by vibratory rollercation 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	Rate ruction of grading tions (incl	70782 2831.28 7361.33 80974.61 sub-grade with approximate the process of earth 2% of proctors dense	mr (laps,hooks aplete as per materiand compacted as more materiand compacted as watering sity) MORTH					
	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 Table No. 300-2 complete as per specificat charges & compaction by vibratory rollercompaction by vibratory rollercompaction by vibratory rollercation 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	Rate ruction of grading tions (incl	70782 2831.28 7361.33 80974.61 sub-grade with approximate to required slope actuding cost of earth 6% of proctors density 20.52	mt proved materiand compacted n, watering sity) MORTH					
	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 rollercompaction by vibratory rollercompaction by vibratory rollercompaction 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	Rate ruction of grading tions (incl	70782 2831.28 7361.33 80974.61 sub-grade with approximate to required slope and auding cost of earth of proctors density of p	mt pproved materiand compacted n, watering sity) MORTH					
	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 Table No. 300-2 complete as per specificat charges & compaction by vibratory rollercompaction by vibratory rollercompaction by vibratory rollercation 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	Rate ruction of grading tions (incl	70782 2831.28 7361.33 80974.61 sub-grade with application required slope a suding cost of earth 6% of proctors density 20.52	mt mt pproved materiand compacted n, watering sity) MORTH					

Maintenance for 1st Year:

15

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,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:

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)

Basic Rate

Maintenance -1st year escalation of 4%

Add 10% For area weightage (Mangalore City)

Rate

4209.92 Cum

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

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 j	ioints Ionai	tudinal ioints and	expansion joints			
19	in concrete pavement using epoxy mortar concrete complete as per specifications. Morth specification						
	No.3005.1	, ac po	opoomodiiono.mo	ran opcomodaton			
	(Page No 257,SI 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 7/	Rate	378.66	Rmt			
	Maintenance for 1st Year:	<u> </u>					
	Providing and laying at or near ground level factory made kerb	s atono of	M 20 grada san	ant concrete in			
	position to the required line, level and curvature, jointed with cen						
20	including making joints with or without grooves (thickness of joints except at sharp curve shall not to more						
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	yment).					
	(Precast C.C. kerb stone shall be approved by Engineer-in-charge	e).					
	(RA Attached)						
	· · · · · · · · · · · · · · · · · · ·						
	Rate Arrived as per Rate analysis	 	17700 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:						
		drawing m	ando out of CC 1	·2·4 and laintag			
	Providin and fixing pre cast solid concrete Kerb stones as per the drawing,made out of CC 1:2:4 and Jointed						
21	with CM 1:3 and finishing cutting, including cost o		aterials,labour,hir	e charges of			
	machinery,loading,unloading,lead and lift,transportation etc.,comp	lete					
	(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				
	That 1070 For area weightage	Rate	17710.96				
		Nate	177 10.90	Cuiii			
	Maintenance for 1st Year:						
	Providin and fixing pre cast solid concrete water table(longitudinal gutter) as per the drawing,made out of CC						
22	1:2:4 and jointed with CM 1:3 and finishing cutting, including		materials,labour	hire charges o			
	machinery,loading,unloading,lead and lift,transportation etc.,comp	lete					
	(Page No 25,SI No : 5.3)						
	Basic rate		15101.61				
			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:			•			
	Removing and resetting of kerb stones. including cost of all materials, scaffolding HOM of machineries with						
23	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.						
	design, drawing, technical specifications and directions of Engineer	er-in-charge	ð.				
	Basic rate		24				
	Maintenance -1st year escalation of 4%		0.96				
	Add 10% For area weightage		2.5				
		Rate	27.46				
		itate	21.40	13111			
	Maintenance for 1st Year:						
24	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 - 1 - 5 - 5					
	Basic Rate		80				
	Page 143		80				

	Maintenance -1st year escalation of 4%	į į	3.2			
	Add 10% For area weightage (Mangalore City)		8.32			
	Add 10% For area weightage (Mangalore City)	Data				
		Rate	91.52	Sqm		
0.5	Maintenance for 1st Year:					
25	P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting.					
	As per Quotation					
			40704			
	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:					
		at raised feetneth	CMD			
26	P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame	at raised rootpatr	1 ON SWD.			
	(Rate analysis attached)					
	As per Quotation					
	Basic Rate		7170.00			
			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.		
	Maintenance for 1st Year:	l l				
07			.41_			
27	P/F FRP Water gully cover with frame (25T) 600mmx500 r	nm at iever rootpa	un.			
	(Rate analysis attached)					
	As per Quotation					
	Basic Rate		7912.28			
	Basic Nate		7512.20			
	Discount 30%		-2373.68			
	Discount 30% Sub Total		-2373.68 5538.6			
	Discount 30% Sub Total Fixing Charges @5%		-2373.68 5538.6 276.93			
	Discount 30% Sub Total	Pote	-2373.68 5538.6 276.93 232.62			
	Discount 30% Sub Total Fixing Charges @5%	Rate	-2373.68 5538.6 276.93	Nos.		
	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4%	Rate	-2373.68 5538.6 276.93 232.62	Nos.		
	Discount 30% Sub Total Fixing Charges @5%	Rate	-2373.68 5538.6 276.93 232.62	Nos.		
	Discount 30% Sub Total Fixing Charges @5% Maintenance -1st year escalation of 4%		-2373.68 5538.6 276.93 232.62 6048.15			
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 p	pipes to the requir	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in	cluding specia		
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 pand grade as indicated in drawings/design and hydraulical	pipes to the requirely testing of the p	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in pipe line.The rate	cluding special		
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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g	pipes to the requirely testing of the p	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in pipe line.The rate	cluding special		
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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g No.41,Item No.7,KUWSDB SOR 2016-17)	pipes to the requirely testing of the p	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in hippe line. The rate by the Engineer	cluding special		
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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate	pipes to the requirely testing of the p	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in hipe line. The rate by the Engineer	cluding special		
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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4%	pipes to the requirely testing of the p	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in hippe line. The rate by the Engineer	cluding specia shall include		
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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g 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	pipes to the requirely testing of the p	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in hippe line. The rate by the Engineer	cluding specia shall include		
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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g No.41,ltem No.7,KUWSDB SOR 2016-17) Basic Rate Maintenance -1st year escalation of 4%	oipes to the requirely testing of the petc as directed by	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in hippe line. The rate by the Engineer 297 11.88 4.7	icluding specia shall include in charge (pa		
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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g 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	pipes to the requirely testing of the p	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in hippe line. The rate by the Engineer	cluding specia shall include in charge (pa		
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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g 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	oipes to the requirely testing of the petc as directed by	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in hippe line. The rate by the Engineer 297 11.88 4.7	icluding specia shall include in charge (pa		
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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g 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)	oipes to the requirely testing of the petc as directed by	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in hippe line. The rate by the Engineer 297 11.88 4.7	icluding specia shall include in charge (pa		
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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g 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:	pipes to the requirement of the properties as directed to the requirement of the properties of the pro	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in hippe line. The rate by the Engineer 297 11.88 4.7 313.58	cluding special shall include in charge (pa		
	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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g 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	pipes to the requirement of the part of th	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in hip line. The rate by the Engineer 297 11.88 4.7 313.58 self cleaning des	cluding special shall include in charge (pa		
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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g 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 screwed down or hinged grating with or without vent arm in	Rate of 100mm dia, of cluding cutting and	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in hippe line. The rate by the Engineer 297 11.88 4.7 313.58 self cleaning des d making good th	cluding special shall include in charge (pa		
	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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g 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 screwed down or hinged grating with or without vent arm infloors, cost of materials, labour, testing, complete as per sp	Rate of 100mm dia, of cluding cutting and	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in hippe line. The rate by the Engineer 297 11.88 4.7 313.58 self cleaning des d making good th	cluding special shall include in charge (pa		
	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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g 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 screwed down or hinged grating with or without vent arm in	Rate of 100mm dia, of cluding cutting and	-2373.68 5538.6 276.93 232.62 6048.15 red alignments in hippe line. The rate by the Engineer 297 11.88 4.7 313.58 self cleaning des d making good th	cluding special shall include in charge (pa		
	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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g 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 screwed down or hinged grating with or without vent arm infloors, cost of materials, labour, testing, complete as per sp (PWD SR 2015-19,P.No.86, SI.No.12.89)	Rate of 100mm dia, of cluding cutting and	red alignments in pipe line. The rate by the Engineer 11.88 4.7 313.58 self cleaning des d making good the ification No. KBS	cluding special shall include in charge (pa		
	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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g 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 screwed down or hinged grating with or without vent arm infloors, cost of materials, labour, testing, complete as per sp (PWD SR 2015-19,P.No.86, SI.No.12.89) Basic Rate	Rate of 100mm dia, of cluding cutting and	red alignments in pipe line. The rate by the Engineer 11.88 4.7 313.58 self cleaning des d making good the frication No. KBS	cluding special shall include in charge (parameter) Rm ign with e walls and 11.1.10.		
	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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g 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 screwed down or hinged grating with or without vent arm infloors, cost of materials, labour, testing, complete as per sp (PWD SR 2015-19,P.No.86, Sl.No.12.89) Basic Rate Maintenance -1st year escalation of 4%	Rate of 100mm dia, of cluding cutting and	red alignments in pipe line. The rate by the Engineer 297 11.88 4.7 313.58 self cleaning des d making good the ification No. KBS 830 33.2	Rm ign with e walls and 11.1.10.		
	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 pand grade as indicated in drawings/design and hydraulical jointing materials,testing apparatus and water for testi g 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 screwed down or hinged grating with or without vent arm infloors, cost of materials, labour, testing, complete as per sp (PWD SR 2015-19,P.No.86, SI.No.12.89) Basic Rate	Rate of 100mm dia, of cluding cutting and	red alignments in pipe line. The rate by the Engineer 11.88 4.7 313.58 self cleaning des d making good the frication No. KBS	Rm ign with e walls and 11.1.10.		

	Maintenance for 1st Year: KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-			
	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	lls at both	ends, providing	a minimum fill of
30	granular material over top and sides of RCC pipe as per IRC:9	-		•
	granular material free of rock pieces, outer to outer distance o minimum450 mm in case of double and triple row ducts, joints to be			
	above higher than ground level to prevent entry of water and dir			
	drawings complete as per specifications. Case-III :Triple row for the			and approved
	(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)	Rate	522.29 5745.17	
		rate	37 43:17	Kiii
	Maintenance for 1st Year:			
	Providing and laying Dia 200mm HDPE Electrical pipe Conduits			
0.4	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 NEMA TC7. The expected service life of HDPE pipe conduits and a			
	(Market Rate)	10003301 N	53 SHall Hot be les	s than 50 years.
	Basic Rate (Without GST@18%)		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	
	Sub Total		1556.88	
	Maintenance -1st year escalation of 4%		62.28	
		Rate	1619.16	Rm
	Maintenance for 1st Year:			
22	Providing and laying Dia 160mm HDPE Electrical pipe Conduits dimensional ratio of 13.5, Deflection not greater than 5% when ex	posed to	the normal opera	ting temparature
32	90°C under the over burden soil presuure and other physical prop			
	NEMA TC7.The expected service life of HDPE pipe conduits a years.(Market Rate)	and acces		
	Basic Rate (Without GST@18%) Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item		996.3 66	
	No.50,Pg.No.123) Add 10% For area weightage (Mangalore City)			
	Sub Total		6.6 1068.9	
	Maintenance -1st year escalation of 4%		42.76	
		Rate	1111.66	
33	Maintenance for 1st Year: Providing and Fixixng Spacers for Power Ducts of size 200 mm Spacers shall be made of ABS raw material. (Market rate)	, to be p	laced at an interv	al of 1.5 meter.
	Basic Rate (Without GST@18%)		1003	
	Contractor Profit@10%		1003	
	Maintenance -1st year escalation of 4%		40.12	
		Rate	1143.42	Nos.
	Maintananas fan dat Varia			
34	Maintenance for 1st Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm Spacers shall be made of ABS raw material. (Market rate)	, to be p	laced at an interv	al of 1.5 meter.
	Basic Rate (Without GST@18%)		1947	
	Contractor Profit@10%		194.7	
	Maintenance -1st year escalation of 4%	Poto	77.88 2219.58	
		Rate	2219.58	INUS.
	Page 145	I		

Maintenance for 1st Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lu comforming to ASTMF 2160 and /or equivalent indian standard an and unloading at both destination and rolling,lowering into trench etc.Complete. (Market Rate) Basic Rate (Without GST@18%) Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123)	d conve	ying to work site i					
comforming to ASTMF 2160 and /or equivalent indian standard an and unloading at both destination and rolling,lowering into trench etc.Complete. (Market Rate) Basic Rate (Without GST@18%) Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item	d conve	ying to work site i					
and unloading at both destination and rolling,lowering into trench etc.Complete. (Market Rate) Basic Rate (Without GST@18%) Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item			ncluding loadin				
and unloading at both destination and rolling,lowering into trench etc.Complete. (Market Rate) Basic Rate (Without GST@18%) Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item	es,layin	g true to line and					
etc.Complete. (Market Rate) Basic Rate (Without GST@18%) Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		•	jointing of pip				
(Market Rate) Basic Rate (Without GST@18%) Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item							
Basic Rate (Without GST@18%) Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item							
Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		561.7					
		301.7					
		36					
Add 10% For area weightage (Mangalore City)		3.6					
Sub Total		601.3					
Maintenance -1st year escalation of 4%	Data	24.05					
	Rate	625.35	KM				
Maintenance for 1st Year:			_				
Supplying and Application charges required for stamping the freshly		,					
included in this item) including finishing and colouring the top surfac							
and size using approved colour shade and staping it using approved	d stamp	pattern and antiqu	itting 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 10% For area weightage (Mangalore City)	Doto	713.86					
	Rate	/13.80	Sqm				
But the same for A of Many							
Maintenance for 1st Year:							
Providing and laying heavy duty cobble stones 75mm thick, using co							
blocks of approved size, shape and colour with a minimum comp		_	• .				
30mm thick sand bed (average thickness) and compacting with pla	ite vibra	tor having 3 tons o	compaction force				
thereby forcing part of sand underneath to come up in between join	ts, final	compaction of pay	er surface joint				
the trade of the state of the s	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 ma							
into its final level, including cost of materials, labour and HOM of ma (Page No 101,Sl No : 14.7)							
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·		es complete as per	specifications.				
(Page No 101,SI No : 14.7) Basic rate		es complete as per	specifications.				
(Page No 101,SI No : 14.7) Basic rate Maintenance -1st year escalation of 4%		1114 44.56	specifications.				
(Page No 101,SI No : 14.7) Basic rate	achinerie	1114 44.56 115.86	specifications.				
(Page No 101,SI No : 14.7) Basic rate Maintenance -1st year escalation of 4%		1114 44.56	specifications.				
(Page No 101,SI No : 14.7) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City)	achinerie	1114 44.56 115.86	specifications.				
(Page No 101,SI No : 14.7) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year:	Rate	1114 44.56 115.86 1274.42	specifications. Sqm				
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(Page No 101,SI No : 14.7) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: KSRRB M500-17. Providing and laying dense graded bituminous specified grading, premixed with VG30 grade bituminous binder as	Rate s macacand, tran	1114 44.56 115.86 1274.42 dam using crushe asporting the hot r	Sqm d aggregates on mix to work site				
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Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: 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 smoot 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 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 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 as promplete in all respects complete as per specifications. MORTH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with Basic rate	Rate Rate m thick and fille d alignmoer MOF Specific	1114 44.56 115.86 1174.42 dam using crushe asporting the hot red, vibratory and the in all respects of ity H.M.P. with se Page No.163) 7839 313.56 815.26 8967.82 with hot mix plan r, transporting the ent, rolling with se RTH specification of cation No. 509 - 6-40 Bitumen	Sqm d aggregates of mix to work site candem rollers to complete as pensor paver Grandom rollers to the mix to work site of mix to work smooth wheeled clause No. 500. Using 40/60 TP				
(Page No 101,SI No : 14.7) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: 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 smoot achieve the desired compaction as per MORTH table 500-10 cospecifications MORTH Specification No. 507 -using 100/120 TPF (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 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 as promplete in all respects complete as per specifications. MORTH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with Basic rate Maintenance -1st year escalation of 4%	Rate Rate m thick and fille d alignmoer MOF Specific	tam using crushe as per described as per	Sqm d aggregates on the stander of				
Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage (Mangalore City) Maintenance for 1st Year: 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 smoot 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 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 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 as promplete in all respects complete as per specifications. MORTH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with Basic rate	Rate Rate m thick and fille d alignmoer MOF Specific	1114 44.56 115.86 1174.42 dam using crushe asporting the hot red, vibratory and the in all respects of ity H.M.P. with se Page No.163) 7839 313.56 815.26 8967.82 with hot mix plan r, transporting the ent, rolling with se RTH specification of cation No. 509 - 6-40 Bitumen	Sqm d aggregates of mix to work site andem rollers to complete as pensor paver Gransor paver Gransor paver Gransor paver Maria to work mooth wheeled clause No. 500. using 40/60 TP				

	Maintanana far fat Vaar							
	Maintenance for 1st Year: KSRRB M800 Road markers / Road stud KSRRB M800-35. Prov	iding and	fixing of road stud	d 100x 100 mi				
40	diecast in aluminium, resistant to corrosive effect of salt and							
.0	concrete or asphaltic surface by drilling hole 30 mm upto a concre							
	bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications							
	Basic rate		289					
	Maintenance -1st year escalation of 4%		11.56					
	Add 10% For area weightage (Mangalore City)		30.06					
	The state of the s	Rate	330.62	Nos.				
	Maintenance for 1st Year:							
	Road Marking with hot applied Thermoplastic Compound with	h Dofloctr	icina Class Boo	de on Concre				
	Surface: Providing and laying of hot applied thermoplastic com							
41	glass beads at 250 gms and 2 ltr of primer per sqm area, thickne							
41	glass beads as per IRC:35.The finished surface to be level, unifor							
	as per specifications.MORTH specification No.803	iiii ana no	o nom oncar and	riolos comple				
	(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					
	That is 70 to the area mongridage (manigations only)	Rate	490.78	Sam				
		11000	100110	<u> </u>				
	Maintenance for 1st Year:	1						
42	Operation and Maintenance for eToilets Stainless Steel Public M	lodel as si	pecified in Road a	and Other wor				
	BOQ Item No.45.	'						
	Baisc rate		61200					
	Maintenance -1st year escalation of 4%		2448					
	Rate Approved as per EOI by MD MSCL Mangalore,Refer	Pata	63648	Nos				
	Sr.No.1	Rate	03040	NOS.				
	Maintenance for 1st Year:							
43	Providing and fixing of S.S. Bollards(SS304) on footpath as specif	ied and di	rected by Enginee	er -in-charge				
43		ied and di	rected by Enginee	er -in-charge				
43	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item)	ied and di						
43	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer	ied and di	rected by Enginee					
43	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13	ied and di	4500.00					
43	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer	ied and di		-				
43	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13		4500.00 180	-				
43	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13		4500.00 180	-				
	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4%	Rate	4500.00 180 4680	Nos.				
43	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year:	Rate CTION an	4500.00 180 4680 d bars (shop drav	Nos.				
	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SE	Rate CTION an	4500.00 180 4680 d bars (shop drav	Nos.				
	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SE approved),with vertical support of 0.9m @2.2mc/c , all complete architect.(Non SOR Item)	Rate CTION an	4500.00 180 4680 d bars (shop drav	Nos.				
	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SE 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	Rate CTION an	4500.00 180 4680 d bars (shop drawsfaction of the La	Nos.				
	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SE 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	Rate CTION an	4500.00 180 4680 d bars (shop draw sfaction of the La	Nos.				
	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SE 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	Rate CTION an to the sati	4500.00 180 4680 d bars (shop draw sfaction of the Late 100000.00 4000	Nos. wing to be andscape				
	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SE 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	Rate CTION an	4500.00 180 4680 d bars (shop draw sfaction of the La	Nos. wing to be andscape				
	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SE 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 Maintenance -1st year escalation of 4%	Rate CTION an to the sati	4500.00 180 4680 d bars (shop draw sfaction of the Late 100000.00 4000	Nos. wing to be andscape				
	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SE 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 Maintenance -1st year escalation of 4% Maintenance for 1st Year:	Rate CTION an to the sati	4500.00 180 4680 d bars (shop draw sfaction of the Late 100000.00 4000 104000	Nos. wing to be andscape				
	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SE 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 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Excavation and removal of silt and silt mixed with sand in slussy c	Rate CTION an to the sati	4500.00 180 4680 d bars (shop draw sfaction of the Late 100000.00 4000 104000 om canal bed included	Nos. wing to be indscape MT				
	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SE 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 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Excavation and removal of silt and silt mixed with sand in slussy c off the same in spoil bank or on the canal embankment in layers a	Rate CTION an to the sati Rate ondition from the state of the state	4500.00 180 4680 d bars (shop draw sfaction of the Late 100000.00 4000 104000 om canal bed includetc., complete with	Nos. wing to be indscape MT uding disposin h lead upto 50				
44	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SE 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 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Excavation and removal of silt and silt mixed with sand in slussy c off the same in spoil bank or on the canal embankment in layers a m and all lifts. For Desilting of drains and grit chambers including	Rate CTION and to the sation of the sation of the sation of all the sation of the sat	4500.00 180 4680 d bars (shop draw sfaction of the Late 100000.00 4000 104000 om canal bed includetc., complete with materials, scaffold	Nos. wing to be andscape MT uding disposing the lead upto 50 ding HOM of				
44	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SE 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 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Excavation and removal of silt and silt mixed with sand in slussy c off the same in spoil bank or on the canal embankment in layers a	Rate CTION an to the sati Rate ondition from the state of the state	4500.00 180 4680 d bars (shop draw sfaction of the Late 100000.00 4000 104000 om canal bed inclused the state of the s	Nos. wing to be andscape MT uding disposing the lead upto 50 ding HOM of and Social				
44	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SE 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 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Excavation and removal of silt and silt mixed with sand in slussy c off the same in spoil bank or on the canal embankment in layers a m and all lifts. For Desilting of drains and grit chambers including machineries with all lead and lifts, labour charges including implent	Rate CTION an to the sati Rate ondition from the state of the state	4500.00 180 4680 d bars (shop draw sfaction of the Late 100000.00 4000 104000 om canal bed inclused the state of the s	Nos. wing to be andscape MT uding disposing the lead upto 50 ding HOM of and Social				
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44	Providing and fixing of S.S. Bollards(SS304) on footpath as specif (NON SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SE 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 Maintenance -1st year escalation of 4% Maintenance for 1st Year: Excavation and removal of silt and silt mixed with sand in slussy c off the same in spoil bank or on the canal embankment in layers a m and all lifts. For Desilting of drains and grit chambers including machineries with all lead and lifts, labour charges including implent Safeguards & as per design, drawing, technical specifications and	Rate CTION an to the sati Rate ondition from the state of the state	d bars (shop dray sfaction of the Late 100000.00 4000 1040000 1040000 1040000 1040000 1040000 1040000 1040000 1040000 104000000 1040000 1040000 1040000 104000000 10400000 10400000 10400000000	Mos. wing to be andscape MT uding disposing the lead upto 50 ding HOM of and Social harge.				

	Mark days and Contact Mark					
40	Maintenance for 1st Year:		Call and			
46	Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead Item No 17.4 KSRRB M100-4.1-Earth					
	Item No 17.4 KSRRB M100-4.1-Earth					
	Earth	2.0	x1.28x10km			
	Baisc rate		25.60			
	Add Loading and unloading charges(Item No 17.1 KSRRB M100-					
	1)		68.00			
	Sub Total-1		93.60			
	Add 10% For area weightage (Mangalore City)		9.36			
	Sub Total-2		102.96			
	Maintenance -1st year escalation of 4%		4.12			
		Rate	107.08 Cum			
47	Maintenance for 1st Year: Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris	eyond init	tial Lead			
	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 Cum			
	Lighting Poles					
	Maintenance for 1st Year:					
40	Dismantling of pole/ street light standard/ strut embedded in cemer	nt concret	te			
48	foundation etc. as required					
	(Delhi analysis of rates E & M 2016, item 12.42, pg 395))					
	Basic Rate		1,681			
	Maintenance -1st year escalation of 4%		67.23			
		Rate	1747.8756 Nos.			
	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					
49	bakelite sheet and MCBs as per IS specifications suitable for wind					
73	section and single joint welded as per IS 9595/IS 10178 AWG havi					
			with template and the pole shall			
	be hot dip galvanized in single dipping with not less than 65 micron	as per A	STM - A123 and 153 etc.,			
	(excluding foundation) as per drawing appended					
	(Ref Electrical SOR SI No. 5.14.5)					
	Basic rate		12420			
	Maintenance -1st year escalation of 4%		496.8			
		Rate	12,916.80 Nos.			
	Maintenance for 1st Year:					
	Lighting Pole, 4 m					
	Fabrication, supply and erection of 4 meters long hot dip Galvanise	ed Octago	onal pole with BSE 10025 grade S			
	355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, icluding suitable boards,					
5 0	bakelite sheet and MCBs as per IS specifications suitable for wind	speed of	47 m/sec for 5 4 pole in single			
50	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	h template and the pole shall be			
	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		7398			
	Maintenance -1st year escalation of 4%		295.92			
	, ,	Rate	7,693.92 Nos.			

	Maintenance for 1st Year:			
	Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for	outdoor li	uminaries and mo	unted on
51	Octagonal pole using necessary bolts, nuts, etc. complete	outdoor it	ummanes and mo	unted on
51	Double Cross arm - 1500 mm			
	(Ref Electrical SOR SI No.5.18.5)			
	,		2540	T
	Basic rate Maintenance -1st year escalation of 4%		3540 141.6	
	Ivialmenance -1st year escalation of 4%	Rate	3,681.60	
	Maintenance for 4 of Voor	Rate	3,001.00	INUS.
	Maintenance for 1st Year:	autdaar li	uminariaa and ma	untad an
50	Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for Octagonal pole using necessary bolts, nuts, etc. complete	outdoor it	ummanes and mo	unted on
52	Single Cross arm - 1500 mm			
	(Ref Electrical SOR SI No.5.18.2)			
	,	· ·	2.100	Т
	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		I with suitable colo	our enamel
55	including coping/footing of the pole8mtr and above street light pol	е		
	(Ref Electrical SOR SI No.16.28.2)			
	Basic rate		620	
	Maintenance -1st year escalation of 4%		24.8	
		Rate	645	Nos.
	Oudoor Box and Switch Gear			
	Maintenance for 1st Year:			
54	Supply, installation, testing and commissioning of outdoor junction	box for m	ounting MCB/Con	ntactors with all
	required accessories and componenets			
	Price list (Considering 30% discount , 18% GST & 10% profit)		11782.92	
			11702.92	
	Maintenance -1st year escalation of 4%		471.32	
		Rate	12,254	Nos
			,	1103.
			,	1103.
	Maintenance for 1st Year:		,	1103.
	Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board using			
55		ng neces	sasary fixing mate	rial and 'C' type
55	Supply and fixing of miniature circuit breaker on exisiting board using	ng neces	sasary fixing mate	rial and 'C' type
55	Supply and fixing of miniature circuit breaker on exisiting board using curve, indicator ON/OFF, energy cross-3 with short circuit breaking	ng neces	sasary fixing mate	rial and 'C' type
55	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 neces	sasary fixing mate	rial and 'C' type
55	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)	ng neces	sasary fixing mate of 10 KA complet	erial and 'C' type se wiring as
55	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 neces	sasary fixing mate of 10 KA complet	erial and 'C' type re wiring as
55	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)	ng necess	sasary fixing mate of 10 KA complet 1547 61.88	erial and 'C' type e wiring as
55	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 neces	sasary fixing mate of 10 KA complet	erial and 'C' type e wiring as
55	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%	ng necess	sasary fixing mate of 10 KA complet 1547 61.88	erial and 'C' type e wiring as
55	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	ng necess	sasary fixing mate of 10 KA complet 1547 61.88	erial and 'C' type e wiring as
55	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:	ng necessicapacity	sasary fixing mate of 10 KA complet 1547 61.88 1,609	erial and 'C' type te wiring as Nos.
	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 ins	ng necess capacity Rate ulated, ex	sasary fixing mate of 10 KA complet 1547 61.88 1,609 Atruded inner shea	erial and 'C' type te wiring as Nos.
55	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 ins galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as	Rate ulated, exper IS-39	sasary fixing mater of 10 KA completed 1547 61.88 1,609 ctruded inner shear 975:1990 and extra	erial and 'C' type te wiring as Nos.
	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 ins 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	sasary fixing mater of 10 KA completed 1547 61.88 1,609 ctruded inner shear 975:1990 and extra	erial and 'C' type te wiring as Nos.
	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 ins galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as sheathed armoured cable as per IS - 1554 Part 1:1988 & conformit 4 Core x16 Sq.mm PVC Aluminium Conductor,	Rate ulated, exper IS-39	sasary fixing mater of 10 KA completed 1547 61.88 1,609 ctruded inner shear 975:1990 and extra	erial and 'C' type te wiring as Nos.
	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 ins galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as sheathed armoured cable as per IS - 1554 Part 1:1988 & conformit 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)	Rate ulated, exper IS-39	sasary fixing mater of 10 KA completed 1547 61.88 1,609 ctruded inner sheat 275:1990 and extruded of GROUP B	Nos. Nos.
	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 ins galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as sheathed armoured cable as per IS - 1554 Part 1:1988 & conformit 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	sasary fixing mater of 10 KA completed of 10 KA completed 1547 61.88 1,609 ctruded inner sheat of GROUP B	rial and 'C' type te wiring as Nos. Ithed, uded PVC outer
	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 ins galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as sheathed armoured cable as per IS - 1554 Part 1:1988 & conformit 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)	Rate ulated, exper IS-39 ng to GTF	sasary fixing mater of 10 KA completed of 10 KA completed 1547 61.88 1,609 ctruded inner shear of GROUP B	rial and 'C' type te wiring as Nos. hthed, uded PVC oute
	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 ins 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) Basic rate Maintenance -1st year escalation of 4%	Rate ulated, exper IS-39	sasary fixing mater of 10 KA completed of 10 KA completed 1547 61.88 1,609 ctruded inner sheat of GROUP B	rial and 'C' type te wiring as Nos. hthed, uded PVC oute
	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 ins 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) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year:	Rate ulated, exper IS-39 ng to GTF	sasary fixing mater of 10 KA completed of 10 KA completed in 1547 61.88 1,609 ctruded inner shear of GROUP B	Nos. Nos. Athed, added PVC oute
56	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 ins 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) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and drawing flexible multicore cable with electrolyte grade for the strip of the short circuit breaking to supply and drawing flexible multicore cable with electrolyte grade for the strip of the short circuit breaking to supply and drawing flexible multicore cable with electrolyte grade for the strip of the short circuit breaking to supply and drawing flexible multicore cable with electrolyte grade for the strip of the short circuit breaking to supply and drawing flexible multicore cable with electrolyte grade for the short circuit breaking to supply and drawing flexible multicore cable with electrolyte grade for the short circuit breaking to supply and drawing flexible multicore cable with electrolyte grade for the short circuit breaking to supply and drawing flexible multicore cable with electrolyte grade for the short circuit breaking to supply and drawing flexible multicore cable with electrolyte grade for the short circuit breaking to supply and drawing flexible multicore cable with electrolyte grade for the short circuit breaking to supply and drawing flexible multicore cable with electrolyte grade for the short circuit breaking to supply and drawing flexible multicore cable with electrolyte grade for the short circuit breaking to supply and drawing flexible multicore cable with electrolyte grade for the short circuit breaking to supply and drawing flexible flex	Rate ulated, exper IS-39 ng to GTF	sasary fixing mater of 10 KA completed of 10 KA completed of 10 KA completed of 1.88 1.609 ctruded inner shear of GROUP B 117 4.68 121.68 pper with low conditions of the cond	nrial and 'C' type te wiring as Nos. Nos. Athed, uded PVC oute
	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 ins 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) 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 instance.	Rate ulated, exper IS-39 ag to GTF Rate exible coulation ar	sasary fixing mater of 10 KA completed of 10 KA completed 1547 61.88 1,609 ctruded inner shear of GROUP B 117 4.68 121.68 pper with low conduction of sheathed suital	nrial and 'C' type te wiring as Nos. Nos. Athed, uded PVC oute
56	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 ins 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) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supply and drawing flexible multicore cable with electrolyte grade for conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insvoltage up to 1100 V as per IS-694:1990 and conforming to GTP of the curve in the curve is a second or the curve is a curve in the curve in the curve is a curve in the curve in the curve is a curve in the curve	Rate ulated, exper IS-39 ag to GTF Rate exible coulation ar	sasary fixing mater of 10 KA completed of 10 KA completed 1547 61.88 1,609 ctruded inner shear of GROUP B 117 4.68 121.68 pper with low conduction of sheathed suital	nrial and 'C' type te wiring as Nos. Nos. Athed, uded PVC oute
56	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 & 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 for conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insignificant voltage 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 ag to GTF Rate exible coulation ar	sasary fixing mater of 10 KA completed of 10 KA completed for 10 K	Nos. Nos. Rm ductor ble for working
56	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 & 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 for conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insignificant voltage 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) Basic rate	Rate ulated, exper IS-39 ag to GTF Rate exible coulation ar	sasary fixing mater of 10 KA completed of 10 KA completed of 10 KA completed of 1.88 1.609 Attruded inner shear of GROUP B 117 4.68 121.68 pper with low conduction of sheathed suital A. 81.6	Nos. Nos. Rm ductor ble for working
56	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 & 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 for conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insignificant voltage 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 ag to GTF Rate exible coulation are of Group A	sasary fixing mater of 10 KA completed of 10 KA completed for 10 K	Nos. Nos. Rm ductor ble for working
56	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 & 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 for conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC insignificant voltage 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) Basic rate	Rate ulated, exper IS-39 ag to GTF Rate exible coulation ar	sasary fixing mater of 10 KA completed of 10 KA completed of 10 KA completed of 1.88 1.609 Attruded inner shear of GROUP B 117 4.68 121.68 pper with low conduction of sheathed suital A. 81.6	Nos. Nos. Rm ductor ble for working

	Maintenance for 1st Year:			
58	Supplying tinned copper lugs and crimping and wiring to t	erminal point for wire o	of following siz	es
00	16 Sq.mm PVC Aluminium Conductor			
	(Ref Electrical SOR SI No.7.21,7.21.6)			
	Basic rate		11.31	
	Maintenance -1st year escalation of 4%	Dete	0.45	
		Rate	11.76	NOS.
	Maintenance for 1st Year:			
	Supplying tinned copper lugs and crimping and wiring to t	erminal point for wire o	of following siz	es
59	2.5 sq. mm copper conductor	•	_	
	(Ref Electrical SOR SI No.7.21.2)			
	Basic rate		3.12	
	Maintenance -1st year escalation of 4%		0.12	
		Rate	3.24	Nos.
	Maintenance for 1st Year:			
	Chemical Earthing for grounding, conduits, IC cut outs and			
	/SS rod with earth enhancing backfill compound which is			•
60	permissible,limits,superior,fault,conductive capacity,non to	oxic,weather resistance	e and capable	of achieving
	ohmic value			
	less than one ohm			
	(Ref Electrical SOR Pg.No.64,Sl No.7.23.6) Basic rate		5500	
	Maintenance -1st year escalation of 4%		220	
	Ivialitie lance - 1st year escalation of 478	Rate	5720	V i+
		Rate	3720	NIL
	Maintenance for 1st Year:			
		a with other wires in co	nduite evetam	of wiring) usin
61	Supply and running GI conductor for grounding and (along		nduits system	of wiring) usin
61	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e		onduits system	of wiring) usin
61	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3)			of wiring) usin
61	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate		19.5	-
61	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3)	tc-8 SWG	19.5 0.78	
61	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate		19.5	
61	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate	tc-8 SWG	19.5 0.78	
	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4%	tc-8 SWG	19.5 0.78 20.28	Rmt
61	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year:	Rate Dyalty and carriage upt	19.5 0.78 20.28	Rmt
	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including romeasured in stacks will be reduced by 20% for payment). (Non SOR Item)	Rate Pyalty and carriage upt	19.5 0.78 20.28	Rmt
	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including romeasured in stacks will be reduced by 20% for payment).	Rate Pyalty and carriage upt	19.5 0.78 20.28 to 5 k.m. lead	Rmt
	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including romeasured in stacks will be reduced by 20% for payment). (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Res. Sr.No.27	Rate Pyalty and carriage upt	19.5 0.78 20.28 to 5 k.m. lead	Rmt
	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including romeasured in stacks will be reduced by 20% for payment). (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Reference should be reduced by 20% for payment).	Rate Pyalty and carriage upt	19.5 0.78 20.28 to 5 k.m. lead 140.00 5.6	Rmt complete (ear
	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including romeasured in stacks will be reduced by 20% for payment). (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Res. Sr.No.27	Rate Pyalty and carriage upt	19.5 0.78 20.28 to 5 k.m. lead	Rmt complete (ear
	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including romeasured in stacks will be reduced by 20% for payment). (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Resp. No.27 Maintenance -1st year escalation of 4%	Rate Pyalty and carriage upt	19.5 0.78 20.28 to 5 k.m. lead 140.00 5.6	Rmt complete (ear
	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including romeasured in stacks will be reduced by 20% for payment). (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Res. Sr.No.27 Maintenance -1st year escalation of 4% Maintenance for 1st Year:	Rate Pyalty and carriage upt Rate Rate	19.5 0.78 20.28 to 5 k.m. lead 140.00 5.6 145.60	Rmt complete (ear
62	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including romeasured in stacks will be reduced by 20% for payment). (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Resp. No.27 Maintenance -1st year escalation of 4% Maintenance for 1st Year: KSRRB M300-Supply at site of work well decayed farm yas	Rate Pyalty and carriage upt Rate Rate Ard manure KSRRB M3	19.5 0.78 20.28 to 5 k.m. lead 140.00 5.6 145.60	Rmt complete (ear
	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including romeasured in stacks will be reduced by 20% for payment). (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Resc. No.27 Maintenance -1st year escalation of 4% Maintenance for 1st Year: KSRRB M300-Supply at site of work well decayed farm yawell decayed farm yard manure, from any available source.	Rate Pyalty and carriage upt Rate Rate Rate Rate	19.5 0.78 20.28 to 5 k.m. lead 140.00 5.6 145.60 300-11. Supply	Rmt complete (ear
62	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers e (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including romeasured in stacks will be reduced by 20% for payment). (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Resc. Sr.No.27 Maintenance -1st year escalation of 4% Maintenance for 1st Year: KSRRB M300-Supply at site of work well decayed farm yawell decayed farm yard manure, from any available source screening and stackin complete as per specifications. MC	Rate Pyalty and carriage upt Rate Rate Rate Rate	19.5 0.78 20.28 to 5 k.m. lead 140.00 5.6 145.60 300-11. Supply	Rmt complete (ear
62	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers etage (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including remeasured in stacks will be reduced by 20% for payment). (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Resp. No.27 Maintenance -1st year escalation of 4% Maintenance for 1st Year: KSRRB M300-Supply at site of work well decayed farm yawell decayed farm yard manure, from any available source screening and stackin complete as per specifications. MC No.152, SI.No.19.90)	Rate Pyalty and carriage upt Rate Rate Rate Rate	19.5 0.78 20.28 to 5 k.m. lead 140.00 5.6 145.60 300-11. Supplygineer in charge.	Rmt complete (ear
62	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers etage (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including remeasured in stacks will be reduced by 20% for payment). (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Respondent of the stacks of the second of	Rate Pyalty and carriage upt Rate Rate Rate Rate	19.5 0.78 20.28 to 5 k.m. lead 140.00 5.6 145.60 300-11. Supplygineer in charge. 308.2(Page	Rmt complete (ear
62	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers et (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including rown measured in stacks will be reduced by 20% for payment). (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Res. Sr.No.27 Maintenance -1st year escalation of 4% Maintenance for 1st Year: KSRRB M300-Supply at site of work well decayed farm yawell decayed farm yard manure, from any available source screening and stackin complete as per specifications. MC No.152, SI.No.19.90) Basic rate Maintenance -1st year escalation of 4%	Rate Pyalty and carriage upt Rate Rate Rate Rate	19.5 0.78 20.28 to 5 k.m. lead 140.00 5.6 145.60 300-11. Supply gineer in charge . 308.2(Page	Rmt complete (ear
62	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers etage (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including remeasured in stacks will be reduced by 20% for payment). (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Respondent of the stacks of the second of	Rate Dyalty and carriage upt Rate Rate Ard manure KSRRB M3 e, approved by the engineration No.	19.5 0.78 20.28 to 5 k.m. lead 140.00 5.6 145.60 300-11. Supply gineer in charge . 308.2(Page	Rmt complete (ear
62	Supply and running GI conductor for grounding and (along necessasary suitable size clamps, nails, guttas/spacers et (Ref Electrical SOR SI No.7.22.3) Basic rate Maintenance -1st year escalation of 4% Maintenance for 1st Year: Supplying and stacking of good earth at site including romeasured in stacks will be reduced by 20% for payment). (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore, Resp. No.27 Maintenance -1st year escalation of 4% Maintenance for 1st Year: KSRRB M300-Supply at site of work well decayed farm yawell decayed farm yard manure, from any available source screening and stackin complete as per specifications. MCNo.152, SI.No.19.90) Basic rate Maintenance -1st year escalation of 4% Add 10% For area weightage	Rate Pyalty and carriage upt Rate Rate Rate Rate	19.5 0.78 20.28 to 5 k.m. lead 140.00 5.6 145.60 300-11. Supply gineer in charge . 308.2(Page	Rmt complete (ear
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	Sr.No.34 Maintenance -1st year escalation of 4%		22.4				
	(Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer		560.00				
	All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed.						
69	lawn areas. (Equipment make - Rainbird or equivalent)	ne	and number reservi-	rad for as			
	of drip irrigation for trees, sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for						
	supply and fixing of irrigation lines such that all the green areas an						
	Maintenance for 1st Year:		l	I			
		Rate	31085.11	oqm			
	Maintenance -1st year escalation of 4%	Deta	1149.78				
	Add 10% For area wightage		1190.848				
	Mazdoor = 0.5 days x 258.88		11908.48				
	days,consider watering at every 3 days)						
	61rs/hr (365days-90 days of mansoon=275 days/3 days=92		16836				
	Water Tanker =61 Rs/ Hour, One Year Cost=92 days x 3 hrs/day x						
68	Watering with tanker to landscape area and plants for one year						
	Maintenance for 1st Year:						
	IRRIGATION	1	<u> </u>	I			
		Rate	103.07	34III			
	Maintenance -1st year escalation of 4%	Rate	6.27 163.07				
	Sr.No.32						
	Rate Approved as per EOI by MD MSCL Mangalore,Refer		156.80				
	(Non SOR Item)	•		_			
67	ZOYSIA JAPONICA (MAT)						
	Maintenance for 1st Year:						
	TURF						
		Rate	117.83	Sqm			
	Add 10% For area wightage		10.71				
	Maintenance -1st year escalation of 4%		4.12				
-	Basic rate		103				
66	complete including cost of all materials, scaffolding HOM of machinicluding implementation of Environmental and Social Safegua specifications and directions of Engineer-in-charge.	neries wi	th all lead and lifts	s, labour charge			
	Maintenance of lawns or Turfing of slopes (rough grassing) for a	period o	of one year includ	ling watering e			
	Maintenance for 1st Year:						
		Rate	24.87	Cum			
	Maintenance -1st year escalation of 4%		0.96				
	Sr.No.28		23.91				
	(Non SOR item) Rate Approved as per EOI by MD MSCL Mangalore,Refer			<u> </u>			
65	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge						
	Maintenance for 1st Year:						
		Rate	117.83	Cum			

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 6-2nd Year

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
0	·	J.III		11410	74
1.00	Civil Works 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	0.30	1068.01	,320
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	0.23	416.99	,96
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)	Sqm	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 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 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).	Cum	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,Sl 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)	Cum	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)	Sqm	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)	Nos.	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)		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
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)		20.00	1183.54	23,671
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)		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)		600.00	509.65	3,05,790
	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	4.00	66096.00	2,64,384
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

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
	Electrical Works				
48.00	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
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.	1.00	3823.20	3,823
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.	1.00	2592.00	2,592
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.	240.00	669.60	160,704
54.00	Maintenance for 2nd Year: Supply, installation, testing and commissioning of outdoor junction box for mounting MCB/Contactors with all required accessories and components	Nos.	1.00	12725.55	12,726
	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	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	1.50	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 159				

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Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
68.00	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)	r Sqm 3.00 604.80		1,814	
				Total	39,52,443

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 forDPR 6-2nd Year

	6.2 W.S. For Maintenance of Roa						
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 attached)	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	1	1	1	0.3	0.30
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	2	1	0.5	0.23	0.23
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 rollercompaction 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 fie or orck 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)		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		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	4.00				4.00
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

	Specification	Unit	No.	L	В	D	Qty.
E	Electrical Works						
48.00 E	Maintenance for 2nd Year: Dismantling, removal, transportation to client's storage place existing lighting poles (Non SOR Item)	Nos.	1				1.00
49.00 s ic 49.00 s A	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, cluding 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 P P 1 1 W W d d e	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 clate for shaft, IS 2062 for base plate with door opening arrangement, icluding suitable boards, bakelite sheet and MCBs as over IS specifications suitable for wind speed of 47 m/sec for 5 4 cole 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 n	Maintenance for 2nd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for butdoor 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 S	Maintenance for 2nd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for butdoor 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 a tt	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.	240.00				240.00
54.00 S	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 K	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
L	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 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						
66.00	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.	Oqiii	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 6

	Maintenance for 2nd Year:			
	Taking out existing CC interlocking paver blocks from footpath	/ central verg	ge, including re	moval of rubbis
1	etc., disposal of unserviceable material to the dumping g			
•	separately and stacking of serviceable material within 50 n			
	Charge.(RA attached)			3
	,	<u> </u>	60.46	1
	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 mechar	nical means ι	ısing pueuma
	tools, breaking to pieces not exceeding 0.02 cum in volume a	nd stock pilli	ng at designate	ed locations a
2	disposal of dismantled material stacking serviceble and unse			
	per specifications.MORTH specification No.202.(Including transpersion)			
	lead 5km-Extra)			
	(Page No 138,SI No : 18.47)			
	Basic rate		899	
	Maintenance- 2nd year escalation of 8%		71.92	
	Add 10% For area weightage (Mangalore City)		97.09	
		Rate	1068.01	Cum
	Maintenance for 2nd Year:			
	KSRRB M200-Dismantaling of kerb Stone and Channel KSRR			b stone by
3	Manual means and disposal of dismantled materials with all lifts	and comple	ete as per	
	specifications.MORTH Specification No.202.		•	
	· ·			
	(Page No.139,S.I.No.18.49)			
	(Page No.139,S.I.No.18.49)		12.00	1
	Basic rate		12.00	
	Basic rate Maintenance- 2nd year escalation of 8%		0.96	
	Basic rate	Pate	0.96 1.3	
	Basic rate Maintenance- 2nd year escalation of 8%	Rate	0.96	
	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City)	Rate	0.96 1.3	
	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year:		0.96 1.3 14.26	Rmt
	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like of	culverts, brid	0.96 1.3 14.26 ges, retaining	Rmt walls and oth
4	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like of structure comprising of masonry, cement concrete, wood work	culverts, brid	0.96 1.3 14.26 ges, retaining , including T&F	Rmt walls and oth
4	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like of structure comprising of masonry, cement concrete, wood work wherever necessary, sorting the dismantled material, disposal	culverts, brid k, steel work of unservice	0.96 1.3 14.26 ges, retaining, including T&Feable material	Rmt walls and other and scaffoldiand stacking t
4	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like of structure comprising of masonry, cement concrete, wood work	culverts, brid k, steel work of unservice	0.96 1.3 14.26 ges, retaining, including T&Feable material	Rmt walls and other and scaffolding and stacking the scanning to the scanning
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4	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like of structure comprising of masonry, cement concrete, wood work wherever necessary, sorting the dismantled material, disposal serviceable material with all lifts complete as per specification. Concrete Grade M-15 &M-20. MORTH Specification No. 202 (Morth Specification No	culverts, brid c, steel work of unservice ons. II. By l	ges, retaining, including T&F eable material Mechanical Me 16-17,18.20,Pa	walls and other and scaffolding and stacking teans. A. Ceme
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4	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like of structure comprising of masonry, cement concrete, wood work wherever necessary, sorting the dismantled material, disposal serviceable material with all lifts complete as per specification Concrete Grade M-15 &M-20. MORTH Specification No. 202 (Pasic rate Maintenance- 2nd year escalation of 8%	culverts, brid c, steel work of unservice ons. II. By l	ges, retaining, including T&F eable material ameterial a	walls and other and scaffolding and stacking the sans. A. Cemer ge No.137)
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	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like of structure comprising of masonry, cement concrete, wood work wherever necessary, sorting the dismantled material, disposal serviceable material with all lifts complete as per specification Concrete Grade M-15 &M-20. MORTH Specification No. 202 (Maintenance- 2nd year escalation of 8%) Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-12.1. Dismantling of existing structures like of structure comprising of masonary, cement concrete, woodwork wherever necessary, sorting the dismantled material, disposal	culverts, bridge, steel work of unservice ons. II. By CPWD SOR ARTE	ges, retaining, including T&F able material	walls and other and stacking trans. A. Cemerge No.137) Cum walls and other and scaffoldi
	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like of structure comprising of masonry, cement concrete, wood work wherever necessary, sorting the dismantled material, disposal serviceable material with all lifts complete as per specification. Concrete Grade M-15 &M-20. MORTH Specification No. 202 (Maintenance- 2nd year escalation of 8%) Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-12.1. Dismantling of existing structures like of structure comprising of masonary, cement concrete, woodwork wherever necessary, sorting the dismantled material, disposal serviceable material with all lifts complete as per specifications.	culverts, bridge, steel work of unservice ons. II. By CPWD SOR ARTE	ges, retaining, including T&F able material	walls and other and stacking trans. A. Cemerge No.137) Cum walls and other and scaffoldi
	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like of structure comprising of masonry, cement concrete, wood work wherever necessary, sorting the dismantled material, disposal serviceable material with all lifts complete as per specification. Concrete Grade M-15 &M-20. MORTH Specification No. 202 (Maintenance- 2nd year escalation of 8%) Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-12.1. Dismantling of existing structures like of structure comprising of masonary, cement concrete, woodwork wherever necessary, sorting the dismantled material, disposal serviceable material with all lifts complete as per specifications i)Dismantaling Brick/Tile work B.In Cement mortar	culverts, bridge, steel work of unservice ons. II. By CPWD SOR ARTE	ges, retaining, including T&F able material abeta Mechanical Mecha	walls and other and stacking to the sans. A. Cemer ge No.137) Cum walls and other and scaffoldi
	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like of structure comprising of masonry, cement concrete, wood work wherever necessary, sorting the dismantled material, disposal serviceable material with all lifts complete as per specification. Concrete Grade M-15 &M-20. MORTH Specification No. 202 (Maintenance- 2nd year escalation of 8%) Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-12.1. Dismantling of existing structures like of structure comprising of masonary, cement concrete, woodwork wherever necessary, sorting the dismantled material, disposal 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)	culverts, bridge, steel work of unservice ons. II. By CPWD SOR ARTE	ges, retaining, including T&F able material abechanical Mechanical Abechanical able material able m	walls and other and stacking trans. A. Cemege No.137) Cum walls and other and scaffoldiand stacking trans.
	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like of structure comprising of masonry, cement concrete, wood work wherever necessary, sorting the dismantled material, disposal serviceable material with all lifts complete as per specification. Concrete Grade M-15 &M-20. MORTH Specification No. 202 (Maintenance- 2nd year escalation of 8%) Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-12.1. Dismantling of existing structures like of structure comprising of masonary, cement concrete, woodwork wherever necessary, sorting the dismantled material, disposal 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	culverts, bridge, steel work of unservice ons. II. By CPWD SOR ARTE	ges, retaining, including T&F eable material and the season of the seaso	walls and other and stacking trans. A. Cemerge No.137) Cum walls and other and scaffolding and scaffolding and stacking trans.
	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like of structure comprising of masonry, cement concrete, wood work wherever necessary, sorting the dismantled material, disposal serviceable material with all lifts complete as per specification. Concrete Grade M-15 &M-20. MORTH Specification No. 202 (Maintenance- 2nd year escalation of 8%) Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-12.1. Dismantling of existing structures like of structure comprising of masonary, cement concrete, woodwork wherever necessary, sorting the dismantled material, disposal 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 Maintenance- 2nd year escalation of 8%	culverts, bridge, steel work of unservice ons. II. By CPWD SOR ARTE	ges, retaining, including T&F eable material and the season of the seaso	walls and other and stacking the ans. A. Cemerge No.137) Cum walls and other and scaffolding and scaffolding and stacking the and scaffolding and stacking the and stacking the and scaffolding and stacking the angle of the angle
	Basic rate Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-13.1. Dismantling of existing structures like of structure comprising of masonry, cement concrete, wood work wherever necessary, sorting the dismantled material, disposal serviceable material with all lifts complete as per specification. Concrete Grade M-15 &M-20. MORTH Specification No. 202 (Maintenance- 2nd year escalation of 8%) Add 10% For area weightage (Mangalore City) Maintenance for 2nd Year: KSRRB M200-12.1. Dismantling of existing structures like of structure comprising of masonary, cement concrete, woodwork wherever necessary, sorting the dismantled material, disposal 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	culverts, bridge, steel work of unservice ons. II. By CPWD SOR ARTE	ges, retaining, including T&F eable material and the season of the seaso	walls and other and stacking the ans. A. Ceme ge No.137) Cum walls and other and scaffolding and scaffolding and scaffolding and stacking the and stacking the and stacking the and scaffolding and stacking the angle scaffolding and stacking the angle scaffolding and stacking the angle scaffolding and scaffoldin

6	Maintenance for 2nd 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 1.00Km and complete as per specifications. MORTH specification No.301(Including transporting charges, loadi (Page No 143,SI No : 19.14)	m and s orting dis	ide slopes,in a sposal location nloading for lea	accordance with up to a lead of
	Basic rate		41	
	Maintenance- 2nd year escalation of 8%		3.28	
	Add 10% For area weightage (Mangalore City)		4.43	
		Rate	48.71	Cum
7	Maintenance for 2nd Year: KSRB 2-4: Refilling available earth around pipe lines, cables in compacting each deposited layer by ramming after watering wi including cost of all labour complete as per specifications.(KPWD 1	th lead ι	upto 50m. and	lift upto 1.5 m.
	Basic rate		120	
	Maintenance- 2nd year escalation of 8%		9.6	
	Add 10% For area weightage (Mangalore City)		12.96	
		Rate	142.56	Cum
8	Maintenance for 2nd Year: KSRRB 300-Compaction KSRRB 300-58. Compaction of original g 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 o	f all labour,
	Basic rate		6	
	Maintenance- 2nd year escalation of 8%		0.48	
	Add 10% For area weightage (Mangalore City)		0.65	
		Rate	7.13	Sqm
9	Maintenance for 2nd Year: KSRB 4-1.6; Providing and laying in position plain cement cond 240kgs, with 20mm and down size graded granite metal coal aggregates @ 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 bour, HOM of m	ocum and fine cms. thick, well achinery, curing
	Basic Rate		5900	
	Maintenance- 2nd year escalation of 8%		472	
	Add 10% For area weightage (Mangalore City)		637.2	
		Rate	7009.20	Cum
10	Maintenance for 2nd 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 preprocompactor to achieve the desired density, complete as per spectagraded granular sub-base material as per 400-1 For Grading- II Maintenance for 2nd Year: KSRRB M400-6.1. Construction of granular sub-base by providing in a mechaical mix plant plant providing in a mechaical mix plant providing in a mechaical mix plant	t at OMC ared surf ifications	C, carriage of mace and compa . A. Plant Mix	nixed material to acting with Plate
	Basic Rate		2166	
	Maintenance- 2nd year escalation of 8%		173.28	
	Add 10% For area weightage (Mangalore City)		233.93	
		Rate	2573.21	Cum

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 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% 495.84 669.38 Add 10% For area weightage (Mangalore City) 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) 28.4 312.44 Sqm Rate 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 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 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

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)

15

	Basic Rate		4048	
	Maintenance- 2nd year escalation of 8%		323.84	
	Add 10% For area weightage (Mangalore City)		437.18	
	That 1070 For all our morginage (manigation only)	Rate	4809.02	
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 e and fine aggr on after blendi on, concrete si nually laid and	at 0.86cum and egate confirming ng to be as per trength not to be compacting with 601
	Add 10701 of allow Wolghlago (Walligaloro Oky)	Rate	4371.84	
		Nate	73/ 1.04	Juli
17	Maintenance for 2nd Year: KSSRRB M600-2.Construction of unreinforced,dowel jointed,pla prepared sub base with 25mm and down size graded granite meta at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine in a batching and mixing plant as per approved mix design,transp spread,compacted and finished in a continuos operation includ construction and longitudinal joints,including groove cutting chro sealent 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)	al coarse a aggrega orted to s ling provi ges, joint 4.5m into drawing	aggregate with a site, laid with a ision of contra siller, separatiervals, tie rod complete as p	superplastisizer to IS:383) mixed fixed form paver action, expansio, ion memberane, admixtures as per sprcifications
	Basic Rate		5765	
	Maintenance- 2nd year escalation of 8%		461.2	
	Add 10% For area weightage (Mangalore City)		622.62	
	rtaa 1070 For area weiginage (mangalere eny)	Rate	6848.82	
		rato	00-10.02	Juin
18	Maintenance for 2nd 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)	y the sea the side	llant manufactues of the seala	rer, cleaning the nt if the sealant
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.2		115	
	Maintenance- 2nd year escalation of 8%		9.2	
	mantonario Zna your occuration of 070	Rate	124.2	Rmt
		ivare	127.2	· viiit
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 in concrete pavement using epoxy mortar concrete complete No.3005.1		pecifications.Mo	
	Basic Rate		331	
	Maintenance- 2nd year escalation of 8%		26.48	
	Add 10% For area weightage (Mangalore City)		35.75	
		Rate	393.23	Rmt
		1		1

20	Maintenance for 2nd Year: Providing and laying at or near ground level factory made kerb s position to the required line, level and curvature, jointed with ceme including making joints with or without grooves (thickness of joints than 5mm), including making drainage opening wherever requesting energineer-in-charge (length of finished kerb edging shall be measur (Precast C.C. kerb stone shall be approved by Engineer-in-charge)	nt mortar except a ired com ed for pay	1:3 (1 cement: t sharp curve s plete etc. as	3 coarse sand), shall not to more
	(RA Attached)			
	Rate Arrived as per Rate analysis			
	Basic Rate		17708.82	
	Maintenance- 2nd year escalation of 8%		1416.71	
	Add 10% For area weightage (Mangalore City)		1912.55	
		Rate	21038.08	Cum
21	Maintenance for 2nd Year: Providin and fixing pre cast solid concrete Kerb stones as per t Jointed with CM 1:3 and finishing cutting, including cost of machinery,loading,unloading,lead and lift,transportation etc.,comple (Page No 25,SI No : 5.3)	of all ma		
	Basic rate		15481.61	
	Maintenance- 2nd year escalation of 8%		1238.5288	
	Add 10% For area weightage		1672.01	
		Rate	18392.15	Cum
22	Providin and fixing pre cast solid concrete water table(longitudinal of CC 1:2:4 and jointed with CM 1:3 and finishing cutting, including comachinery,loading,unloading,lead and lift,transportation etc.,comple(Page No 25,SI No : 5.3)	ost of all r	materials,labou	r,hire charges of
	Basic rate (20)		15481.61	
	Maintenance- 2nd year escalation of 8%		1238.5288	
	Add 10% For area weightage	D.1.	1672.01	
		Rate	18392.15	Cum
23	Maintenance for 2nd Year: 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 &
	Basic rate		24	
	Maintenance- 2nd year escalation of 8%		1.92	
	Add 10% For area weightage		2.59	
		Rate	28.51	NOS.
24	Maintenance for 2nd Year: KSRRB 800-1. Painting two coats after filling the surface with synth on new plastered concrete surfaces, with materials, labour complet Chapter 8 (Page No 182,SI No : 24.1)			
	Basic Rate		80	
	Maintenance- 2nd year escalation of 8%		6.4	
	Add 10% For area weightage (Mangalore City)		8.64	
	5 5 1 5 77	Rate	95.04	
				•
25	Maintenance for 1st Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Mar	nhole for e	electrical ductir	ng.
	As per Quotation			
	Basic Rate		10764	
	Discount 30%		-3229.2	

	Sub Total		7534.8	
	GST 18%		1356.26	
	Fixing Charges @5%		376.74	
	Maintenance- 2nd year escalation of 8%		632.92	
	Ivialite lance- 2nd year escalation of 676	Poto	9900.72	
		Rate	9900.72	NOS.
26	Maintenance for 2nd Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame or	n Manhole for el	ectrical ductir	ng.
	As per Quotation			
	Basic Rate		7179.00	
	Discount 30%		-2153.7	
	Sub Total		5025.3	4
	Fixing Charges @5%		251.265	
	Maintenance- 2nd year escalation of 8%		422.13	
	Maintenance 2nd year escalation of 676	Rate	5698.70	
		Nate	3090.70	1405.
27	Maintenance for 2nd Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm (Rate analysis attached)	at level footpat	h.	
	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	
28	Maintenance for 2nd Year: Providing gully pipe lowering, laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically all jointing materials, testing apparatus and water for testi g etc.	testing of the p	ipe line.The r	ate shall includ
28	Providing gully pipe lowering, laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically all jointing materials, testing apparatus and water for testi g etc No.41, Item No.7, KUWSDB SOR 2016-17) Basic Rate	testing of the p	ipe line.The r	rate shall includ
28	Providing gully pipe lowering, laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically 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%	testing of the p	ipe line.The r the Engineer 297	rate shall includ
28	Providing gully pipe lowering, laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically all jointing materials, testing apparatus and water for testi g etc No.41, Item No.7, KUWSDB SOR 2016-17) Basic Rate	testing of the p	ipe line.The r the Engineer 297	rate shall includ
28	Providing gully pipe lowering, laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically 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	testing of the p	ipe line.The r the Engineer 297 23.76	rate shall includ
28	Providing gully pipe lowering, laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically 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)	testing of the p	ipe line.The repair the Engineer 297 23.76	rate shall includer in charge (pag
28	Providing gully pipe lowering, laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically 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 100mm dia, of sding cutting and	297 23.76 4.7 325.46 self cleaning of making good	Rm design with the walls and
	Providing gully pipe lowering, laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically 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 screwed down or hinged grating with or without vent arm inclufloors, cost of materials, labour, testing, complete as per speci	Rate 100mm dia, of sding cutting and	297 23.76 4.7 325.46 self cleaning of making good	Rm design with the walls and BS 11.1.10.
	Providing gully pipe lowering, laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically 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 screwed down or hinged grating with or without vent arm inclufloors, cost of materials, labour, testing, complete as per speci (PWD SR 2015-16, P.No.86, SI.No.12.89) Basic Rate	Rate 100mm dia, of sding 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.
	Providing gully pipe lowering, laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically 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 screwed down or hinged grating with or without vent arm inclufloors, cost of materials, labour, testing, complete as per speci (PWD SR 2015-16, P.No.86, SI.No.12.89) Basic Rate Maintenance- 2nd year escalation of 8%	Rate 100mm dia, of sding cutting and	297 23.76 4.7 325.46 self cleaning of making good ication No. Kl	Rm design with dithe walls and BS 11.1.10.
	Providing gully pipe lowering, laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically 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 screwed down or hinged grating with or without vent arm inclufloors, cost of materials, labour, testing, complete as per speci (PWD SR 2015-16, P.No.86, SI.No.12.89) Basic Rate	Rate 100mm dia, of sding cutting and	297 23.76 4.7 325.46 self cleaning of making good fication No. Kl	Rm design with design the walls and BS 11.1.10.
	Providing gully pipe lowering, laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically 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 screwed down or hinged grating with or without vent arm inclufloors, cost of materials, labour, testing, complete as per speci (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)	Rate 100mm dia, of sifications Specif	297 23.76 4.7 325.46 self cleaning of making good fication No. Kl	Rm design with design the walls and BS 11.1.10.
	Providing gully pipe lowering,laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically all jointing materials,testing apparatus and water for testi g etc No.41,ltem 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 screwed down or hinged grating with or without vent arm inclufloors, cost of materials, labour, testing, complete as per speci (PWD SR 2015-16,P.No.86, Sl.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 M80 cement concrete pipe duct, 300 mm dia, across the road (nev in cuts and toe of slope to toe of slope in fills, constructing h fill of granular material over top and sides of RCC pipe as per of granular material ree of rock pieces, outer to outer distant minimum450 mm in case of double and triple row ducts, joints be above higher than ground level to prevent entry of wat approved drawings complete as per specifications. Case-III: (PWD SR 2015-16,Sl.No.24.36)	Rate 100mm dia, of significations Specifications Specifications Specifications (Provider Construction), ead walls at boor IRC:98-1997, ce of pipe at less to be made leaser and dirt, all	297 23.76 4.7 325.46 self cleaning of making good fication No. Kl 830 66.4 89.64 986.04 ing and laying extending from the ends, proving the ends, proving the ends, proving extending from the ends, proving extending	Rm design with the walls and BS 11.1.10. Nos. g of a reinforce of drain to drain to drain to drain diding a minimu 0.3 m thick layed fippe subject of the level of duct if 198 - 1997 arvices.
29	Providing gully pipe lowering, laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically 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 screwed down or hinged grating with or without vent arm inclufloors, cost of materials, labour, testing, complete as per speci (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 M80 cement concrete pipe duct, 300 mm dia, across the road (nev in cuts and toe of slope to toe of slope in fills, constructing h fill of granular material over top and sides of RCC pipe as per of granular material ree of rock pieces, outer to outer distan minimum450 mm in case of double and triple row ducts, joints be above higher than ground level to prevent entry of wat approved drawings complete as per specifications. Case-III: (PWD SR 2015-16,SI.No.24.36) Basic Rate	Rate 100mm dia, of significations Specifications Specifications Specifications (Provider Construction), ead walls at boor IRC:98-1997, ce of pipe at less to be made leaser and dirt, all	297 23.76 4.7 325.46 self cleaning of making good fication No. Kl 830 66.4 89.64 986.04 ing and laying extending from the ends, provided dealy a compared to the ends of t	Rm design with the walls and BS 11.1.10. Nos. g of a reinforce of drain to drain drain to drain drain to drain drain to drain dra
29	Providing gully pipe lowering,laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically 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 screwed down or hinged grating with or without vent arm inclu floors, cost of materials, labour, testing, complete as per speci (PWD SR 2015-16,P.No.86, Sl.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 M80 cement concrete pipe duct, 300 mm dia, across the road (new in cuts and toe of slope to toe of slope in fills, constructing h fill of granular material over top and sides of RCC pipe as per of granular material free of rock pieces, outer to outer distant minimum450 mm in case of double and triple row ducts, joints be above higher than ground level to prevent entry of wat approved drawings complete as per specifications. Case-III: (PWD SR 2015-16,Sl.No.24.36) Basic Rate Maintenance- 2nd year escalation of 8%	Rate 100mm dia, of significations Specifications Specifications Specifications (Provider Construction), ead walls at boor IRC:98-1997, ce of pipe at less to be made leaser and dirt, all	297 23.76 4.7 325.46 Self cleaning of making good fication No. Kl 830 66.4 89.64 986.04 ing and laying extending from the ends, provided on a seast half dia compact that contains the extending from t	Rm design with the walls and BS 11.1.10. Nos. g of a reinforce om drain to drain drain to drain drain to drain drain to drain a minimu 0.3 m thick layer pipe subject to the level of duct 198 - 1997 arvices.
29	Providing gully pipe lowering, laying of PVC 100 mm dia pipes and grade as indicated in drawings/design and hydraulically 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 screwed down or hinged grating with or without vent arm inclufloors, cost of materials, labour, testing, complete as per speci (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 M80 cement concrete pipe duct, 300 mm dia, across the road (nev in cuts and toe of slope to toe of slope in fills, constructing h fill of granular material over top and sides of RCC pipe as per of granular material ree of rock pieces, outer to outer distan minimum450 mm in case of double and triple row ducts, joints be above higher than ground level to prevent entry of wat approved drawings complete as per specifications. Case-III: (PWD SR 2015-16,SI.No.24.36) Basic Rate	Rate 100mm dia, of significations Specifications Specifications Specifications (Provider Construction), ead walls at boor IRC:98-1997, ce of pipe at less to be made leaser and dirt, all	297 23.76 4.7 325.46 self cleaning of making good fication No. Kl 830 66.4 89.64 986.04 ing and laying extending from the ends, provided dealy a compared to the ends of t	Rm design with the walls and BS 11.1.10. Nos. g of a reinforce of drain to drain a minim 0.3 m thick last pipe subject the vel of ductions and the vices.

		1 1		
	Maintenance for 2nd Year:			
	Providing and laying Dia 200mm HDPE Electrical pipe Conduits w			
	dimensional ratio of 13.5, Deflection not greater than 5% when the state of the sta			
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	e conduits	s and accesso	ries shall 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)		70	
	Add 10% For area weightage (Mangalore City)		7.8	
	Contractor Profit@10%		154.908	
	Sub Total		1556.88	
	Maintenance- 2nd year escalation of 8%		124.55	
	Ivialitienance- znu year escalation or 6 %	Rate	1681.43	
		Kale	1001.43	KIII
	Maintenance for 2nd Year:			
		ith Ciliaar	. Lubricant inn	or lover with ribe
	Providing and laying Dia 160mm HDPE Electrical pipe Conduits w dimensional ratio of 13.5, Deflection not greater than 5% when the state of the state			
32				
0_	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 conduit	s and accesso	nes shall hot be
	1000 than of years.(Warket Nate)			
	Basic Rate		996.3	
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		66	
	No.50,Pg.No.123)			
	Add 10% For area weightage (Mangalore City)		6.6	
	Contractor Profit@10%		106.23	
	Sub Total		1068.9	
	Maintenance- 2nd year escalation of 8%		85.51	
		Rate	1154.41	Rm
	Maintenance for 2nd Year:			
	Providing and Fixing Spacers for Power Ducts of size 200 mm,	to be plac	ced at an inter	val of 1.5 meter.
33		to be plac	ced at an inter	val of 1.5 meter.
33	Providing and Fixing Spacers for Power Ducts of size 200 mm,	to be plac	ced at an inter	val of 1.5 meter.
33	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate)	to be plac		
33	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate	to be place	1003	
33	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10%	to be place	1003 100.3	
33	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate		1003 100.3 80.24	
33	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10%	to be place	1003 100.3	
33	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8%		1003 100.3 80.24	
33	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year:	Rate	1003 100.3 80.24 1183.54	Nos.
33	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm,	Rate	1003 100.3 80.24 1183.54	Nos.
	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material.	Rate	1003 100.3 80.24 1183.54	Nos.
	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate)	Rate	1003 100.3 80.24 1183.54 ced at an inter	Nos. val of 1.5 meter.
	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate	Rate	1003 100.3 80.24 1183.54 ced at an inter	Nos. val of 1.5 meter.
	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10%	Rate	1003 100.3 80.24 1183.54 ced at an inter	Nos. val of 1.5 meter.
	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate	Rate to be pla	1003 100.3 80.24 1183.54 ced at an inter 1947 194.7 155.76	Nos. val of 1.5 meter.
	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10%	Rate	1003 100.3 80.24 1183.54 ced at an inter	Nos. val of 1.5 meter.
	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8%	Rate to be pla	1003 100.3 80.24 1183.54 ced at an inter 1947 194.7 155.76	Nos. val of 1.5 meter.
	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance- 2nd year escalation of 8%	Rate to be pla	1003 100.3 80.24 1183.54 ced at an inter 1947 194.7 155.76 2297.46	Nos.
	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lu	Rate to be plan Rate bricant in	1003 100.3 80.24 1183.54 ced at an inter 1947 194.7 155.76 2297.46	Nos. val of 1.5 meter. Nos.
34	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lucomforming to ASTMF 2160 and /or equivalent indian standard	Rate to be pla Rate bricant in d and co	1003 100.3 80.24 1183.54 ced at an inter 1947 194.7 155.76 2297.46 ner layer for layer	Nos. Nos. Nos. ICT fibre cables rk site including
	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lu comforming to ASTMF 2160 and /or equivalent indian standard loading and unloading at both destination and rolling, lowering into	Rate to be pla Rate bricant in d and co	1003 100.3 80.24 1183.54 ced at an inter 1947 194.7 155.76 2297.46 ner layer for layer	Nos. Val of 1.5 meter. Nos. ICT fibre cables rk site including
34	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lu comforming to ASTMF 2160 and /or equivalent indian standard loading and unloading at both destination and rolling, lowering into of pipe etc. Complete.	Rate to be pla Rate bricant in d and co	1003 100.3 80.24 1183.54 ced at an inter 1947 194.7 155.76 2297.46 ner layer for layer	Nos. Val of 1.5 meter. Nos. ICT fibre cables rk site including
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34	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lu comforming to ASTMF 2160 and /or equivalent indian standard loading and unloading at both destination and rolling, lowering into of pipe etc. Complete.	Rate to be pla Rate bricant in d and co	1003 100.3 80.24 1183.54 ced at an inter 1947 194.7 155.76 2297.46 ner layer for layer	Nos. Val of 1.5 meter. Nos. ICT fibre cables rk site including line and jointing
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34	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lu comforming to ASTMF 2160 and /or equivalent indian standar loading and unloading at both destination and rolling, lowering into of pipe etc. Complete. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123) Add 10% For area weightage (Mangalore City)	Rate to be pla Rate bricant in d and co	1003 100.3 80.24 1183.54 ced at an inter 1947 194.7 155.76 2297.46 ner layer for layer	Nos. Nos. Nos. CT fibre cables rk site including line and jointing
34	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lucomforming to ASTMF 2160 and /or equivalent indian standar loading and unloading at both destination and rolling, lowering into of pipe etc. Complete. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123) Add 10% For area weightage (Mangalore City) Contractor Profit@10%	Rate to be pla Rate bricant in d and co	1003 100.3 80.24 1183.54 ced at an inter 1947 194.7 155.76 2297.46 ner layer for layering to wo s,laying true to	Nos. Nos. Nos. ICT fibre cables rk site including line and jointing
34	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lucomforming to ASTMF 2160 and /or equivalent indian standard loading and unloading at both destination and rolling, lowering into of pipe etc. Complete. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123) Add 10% For area weightage (Mangalore City) Contractor Profit@10% Sub Total	Rate to be pla Rate bricant in d and co	1003 100.3 80.24 1183.54 ced at an inter 1947 194.7 155.76 2297.46 ner layer for layering to wo s,laying true to 561.7 36 56.17 601.3	Nos. Val of 1.5 meter. Nos. ICT fibre cables rk site including line and jointing
34	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lucomforming to ASTMF 2160 and /or equivalent indian standar loading and unloading at both destination and rolling, lowering into of pipe etc. Complete. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123) Add 10% For area weightage (Mangalore City) Contractor Profit@10%	Rate to be pla Rate bricant in d and coo trenches	1003 100.3 80.24 1183.54 ced at an inter 1947 194.7 155.76 2297.46 ner layer for layering to wo s,laying true to 561.7 36 56.17 601.3 48.1	Nos. Val of 1.5 meter. Nos. ICT fibre cables rk site including line and jointing
34	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate) Basic Rate Contractor Profit@10% Maintenance- 2nd year escalation of 8% Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lucomforming to ASTMF 2160 and /or equivalent indian standard loading and unloading at both destination and rolling, lowering into of pipe etc. Complete. (Market Rate) Basic Rate Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item No.50, Pg. No.123) Add 10% For area weightage (Mangalore City) Contractor Profit@10% Sub Total	Rate to be pla Rate bricant in d and co	1003 100.3 80.24 1183.54 ced at an inter 1947 194.7 155.76 2297.46 ner layer for layering to wo s,laying true to 561.7 36 56.17 601.3	Nos. Val of 1.5 meter. Nos. ICT fibre cables rk site including line and jointing

		<u> </u>		
	Maintenance for 2nd Year:			
	Supplying and Application charges required for stamping the freshl	v laid nev	v concrete (Coi	ncrete rate is not
	included in this item) including finishing and colouring the top surfa			
36	and size using approved colour shade and staping it using approve			
	top with approved colour. Sealing entire area with concrete sealer.	a stamp	pattern and am	ilquitting it on
	11 - 11			
	Basic rate		624.00	
	Maintenance- 2nd year escalation of 8%		49.92	
	Add 10% For area weightage (Mangalore City)		67.39	
		Rate	741.31	Sqm
	Maintenance for 2nd Year:			
	Providing and laying heavy duty cobble stones 75mm thick, using of			
	of blocks of approved size, shape and colour with a minimum comp			
37	30mm thick sand bed (average thickness) and compacting with			
31	force thereby forcing part of sand underneath to come up in be			
	surface joints into its final level, including cost of materials, labour	r and HC	OM of machine	ries complete as
	per specifications.			
	(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	Sqm
	Maintenance for 2nd Year:			
	KSRRB M500-17. Providing and laying dense graded bituminous			
	specified grading, premixed with VG30 grade bituminous binder a			
38	laying to the required grade, level and alignment, rolling with smooth			
30	to achieve the desired compaction as per MORTH table 500-10 c			
	specifications MORTH Specification No. 507 -using 100/120 TPH			ensor 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)	
	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			
	aggregates of specified grading, premixed with bituminous binder			
	work site, laying with a paver finisher to the required grade, le			
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
	Dania rata	I	0704	<u> </u>
	Basic rate Maintanance 2nd year acceletion of 99/		8761 700.88	
	Maintenance- 2nd year escalation of 8% Add 10% For area weightage (Mangalore City)		946.19	
	Add 10% For area weightage (Mangalore City)	Doto		
		Rate	10408.07	Cum
	Maintananaa far 2nd Voor-		<u> </u>	<u> </u>
	Maintenance for 2nd Year:	مالمان	al findia ar af a	d atual 400 400
	KSRRB M800 Road markers / Road stud KSRRB M800-35. Pro			
40	mm, diecast in aluminium, resistant to corrosive effect of salt and			
	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	ompiete a	is per specifica	tions
	Basic rate		289	
	Maintenance- 2nd year escalation of 8%		23.12	
	Add 10% For area weightage (Mangalore City)		31.21	
		Rate	343.33	Nos.

	Maintenance for 2nd Year: Road Marking with hot applied Thermoplastic Compound with Surface:Providing and laying of hot applied thermoplastic compo	und 2.5m	nm thick includ	ing reflectorising
41	glass beads at 250 gms and 2 ltr of primer per sqm area,thickness glass beads as per IRC:35.The finished surface to be level,ur 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)	Rate	46.33 509.65	
		Nate	303.03	Oqiii
42	Maintenance for 2nd Year: Operation and Maintenance for eToilets Stainless Steel Public Mod BOQ Item No.45.	del as spe		
	Baisc rate		61200	
	Maintenance- 2nd year escalation of 8%		4896	
	Rate Approved as per EOI by MD MSCL Mangalore,Refer 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	irected 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%	Poto	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 Maintenance- 2nd year escalation of 8%		100000.00	
	Walliterlance- 2nd year escalation of 6 %	Rate	108000	
		rtuto	100000	
	Maintenance for 2nd Year: Excavation and removal of silt and silt mixed with sand in slussy codisposing off the same in spoil bank or on the canal embankment in lead upto 50 m and all little. For Deciling of drains and arit shamps	n layers a	as directed etc.,	complete with
45	lead upto 50 m and all lifts. For Desilting of drains and grit chambe scaffolding HOM of machineries with all lead and lifts, labour charg Environmental and Social Safeguards & as per design, drawing, tengineer-in-charge.	es includ	ing implementa	tion of
	Basic Rate		179.00	
	Maintenance- 2nd year escalation of 8%	D.:	14.32	
		Rate	193.32	NOS.
	Maintenance for 2nd Year:	1	<u> </u>	<u> </u>
46	Extra Lead for Disposing off unserviceable materials upto 10 Km beliem 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)		68.00	
	Sub Total-1		93.60	
	Add 10% For area weightage (Mangalore City)		9.36	
	Sub Total-2		102.96	
	Maintenance- 2nd year escalation of 8%	Det	8.24	
-		Rate	111.20	Cum

47	Maintenance for 2nd Year: Extra Lead for Disposing off unserviceable materials upto 10 Km be	ovend init	tial Load	
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)		9.4 103.40	
	Sub Total-2 Maintenance- 2nd year escalation of 8%		8.27	
	Ividifice- 2nd year escalation of 6 %	Rate	111.67	
	Lighting Poles	Nate	111.07	Cum
48	Maintenance for 2nd Year: Dismantling of pole/ street light standard/ strut embedded in cemer foundation etc. as required	nt concret	re	
	(Delhi analysis of rates E & M 2016, item 12.42, pg 395))			
	Basic Rate		1,681	
	Maintenance- 2nd year escalation of 8%		134.45	
		Rate	1815.0956	Nos.
	Maintenance for 2nd Year:			
49	Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters long hot dip Galvanised 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 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 the pole shall be hot dip galvanized in single dipping with not less t 153 etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No. 5.14.5)	ing arran for wind s WG havii long J	gement, icluding peed of 47 m/s and dimensions bolts along with	ng suitable sec for 5 m pole bottom 155 mm n template and
	Basic rate		12420	
	Maintenance- 2nd year escalation of 8%		993.6	
		Rate	13,413.60	Nos.
50	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 boards, bakelite sheet and MCBs as per IS specifications suitable 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 lopole shall be hot dip galvanized in single dipping with not less than etc., (excluding foundation) as per drawing appended (Ref Electrical SOR SI No.5.14.2)	ening arra for wind s WG haviong J bolt	ngement, iclud speed of 47 m/s ng dimensions as along with te	ing suitable sec for 5 4 pole bottom 130 mm mplate and the
	Basic rate		7398	
	Maintenance- 2nd year escalation of 8%		591.84	
		Rate	7,989.84	Nos.
51	Maintenance for 2nd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for Octagonal pole using necessary bolts,nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5)	outdoor I	uminaries and ı	mounted on
	Basic rate		3540	
	Maintenance- 2nd year escalation of 8%		283.2	
		Rate	3,823.20	
52	Maintenance for 2nd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for Octagonal pole using necessary bolts,nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2)	outdoor I		
	Basic rate		2400	
	Maintenance- 2nd year escalation of 8%		192	
		Rate	2,592	Nos.

53	Painting of Existing street light pole after scrapping the old paint an		with suitable of	colour ename
1	including coping/footing of the pole8mtr and above street light pol	е		
	(Ref Electrical SOR SI No.16.28.3)			
	Dania wata	T		1
	Basic rate		620	
	Maintenance- 2nd year escalation of 8%		49.6	
		Rate	670	Nos.
	Oudoor Box and Switch Gear			
	Maintenance for 2nd Year:			
54	Supply, installation, testing and commissioning of outdoor junction	box for m	ounting MCB/C	Contactors wi
	all required accessories and componenets			
	Price list (Considering 30% discount , 18% GST & 10% profit)		11782.92	
			11702.92	
	Maintenance- 2nd year escalation of 8%		942.63	
		Rate	12,726	Nos.
	Maintenance for 2nd Year:			•
	Supply and fixing of miniature circuit breaker on exisiting board using	na necess	sasary fixing m	aterial and 'C
	type curve, indicator ON/OFF, energy cross-3 with short circuit brea			
55	as required confirming to IEC 60898	aking cap	acity of 10 to	complete wii
	5- 32A TPN			
	Electrical SOR- 6.16.5)	T	4 = 4 =	1
	Basic rate		1547	
	Maintenance- 2nd year escalation of 8%	_	123.76	
		Rate	1,671	Nos.
	LT Cable			
			GTP of GRO	UP B
	4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5.7.5.4)		JOH OI GRO	UP B
	(Ref Electrical SOR SI No.7.5,7.5.4)			UP B
	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate	-	117	
	(Ref Electrical SOR SI No.7.5,7.5.4)	Poto	117 9.36	
	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8%	Rate	117	
	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year:	!	117 9.36 126.36	Rm
	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible multicore grade	lexible co	117 9.36 126.36 pper with low c	Rm conductor
57	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexonforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC ins	lexible copulation ar	117 9.36 126.36 pper with low o	Rm conductor
57	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexonforming 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	lexible copulation ar	117 9.36 126.36 pper with low o	Rm conductor
57	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexonforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC ins	lexible copulation ar	117 9.36 126.36 pper with low o	Rm conductor
57	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexing 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)	lexible copulation ar	117 9.36 126.36 pper with low ond sheathed sufferning A.	Rm conductor itable for
57	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexonforming 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 copulation ar	9.36 126.36 pper with low ond sheathed surf Group A.	Rm conductor itable for
57	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexing 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)	lexible copulation are	117 9.36 126.36 pper with low ond sheathed sure Group A. 81.6 6.53	Rm conductor itable for
57	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexonforming 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 copulation ar	9.36 126.36 pper with low ond sheathed surf Group A.	Rm conductor itable for
57	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible of the 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- 2nd year escalation of 8%	lexible copulation are	117 9.36 126.36 pper with low ond sheathed sure Group A. 81.6 6.53	Rm conductor itable for
57	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible of the 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- 2nd year escalation of 8% Maintenance for 2nd Year:	lexible copulation and GTP of	117 9.36 126.36 pper with low on sheathed sufferment A. Group A. 81.6 6.53	Rm conductor itable for
	(Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible of the 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- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal personal states.	lexible copulation and GTP of	117 9.36 126.36 pper with low on sheathed sufferment A. Group A. 81.6 6.53	Rm conductor itable for
	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible 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- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal per 16 Sq.mm PVC Aluminium Conductor	lexible copulation and GTP of	117 9.36 126.36 pper with low on sheathed sure Group A. 81.6 6.53	Rm conductor itable for
	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade for 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- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal processing to the company of the sq. mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6)	lexible copulation and GTP of	117 9.36 126.36 pper with low ond sheathed sure Group A. 81.6 6.53 88.13	Rm conductor itable for Rm
	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible 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- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal per 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate	lexible copulation and GTP of	117 9.36 126.36 pper with low ond sheathed sure Group A. 81.6 6.53 88.13	Rm conductor itable for Rm
	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade for 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- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal processing to the company of the sq. mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6)	lexible co ulation ar o GTP of Rate	117 9.36 126.36 126.36 pper with low on the second sheathed sure Group A. 81.6 6.53 88.13 re of following 11.31 0.9	Rm conductor itable for Rm sizes
	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible 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- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal per 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate	lexible copulation and GTP of	117 9.36 126.36 126.36 pper with low on the sheathed sure of Group A. 81.6 6.53 88.13 re of following	Rm conductor itable for Rm
	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible of the conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC instruction working 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- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal per 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate Maintenance- 2nd year escalation of 8%	lexible co ulation ar o GTP of Rate	117 9.36 126.36 126.36 pper with low on the second sheathed sure Group A. 81.6 6.53 88.13 re of following 11.31 0.9	Rm conductor itable for Rm sizes
57	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible 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- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal per 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate	lexible co ulation ar o GTP of Rate	117 9.36 126.36 126.36 pper with low on the second sheathed sure Group A. 81.6 6.53 88.13 re of following 11.31 0.9	Rm conductor itable for Rm sizes
58	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible of the conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC instruction working 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- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal per 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate Maintenance- 2nd year escalation of 8%	lexible copulation are of GTP of Rate	117 9.36 126.36 pper with low on sheathed sure Group A. 81.6 6.53 88.13 re of following 11.31 0.9 12.21	Rm conductor itable for Rm sizes
	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible of 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- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal per 16 Sq.mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate Maintenance- 2nd year escalation of 8% Maintenance- 2nd year escalation of 8%	lexible copulation are of GTP of Rate	117 9.36 126.36 pper with low on sheathed sure Group A. 81.6 6.53 88.13 re of following 11.31 0.9 12.21	Rm conductor itable for Rm sizes
58	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC instance working 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- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal profits Sq. mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate Maintenance- 2nd year escalation of 8% Maintenance- 2nd year escalation of 8% Maintenance- 2nd year escalation of 8%	lexible copulation are of GTP of Rate	117 9.36 126.36 pper with low on sheathed sure Group A. 81.6 6.53 88.13 re of following 11.31 0.9 12.21	Rm conductor itable for Rm sizes
58	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible of the conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC instance working 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- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal professional pro	lexible copulation are of GTP of Rate	117 9.36 126.36 pper with low on sheathed sure Group A. 81.6 6.53 88.13 re of following 11.31 0.9 12.21	Rm conductor itable for Rm sizes Nos.
58	Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 2nd year escalation of 8% Maintenance for 2nd Year: Supply and drawing flexible multicore cable with electrolyte grade flexible conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC instance working 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- 2nd year escalation of 8% Maintenance for 2nd Year: Supplying tinned copper lugs and crimping and wiring to terminal per 16 Sq. mm PVC Aluminium Conductor (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate Maintenance- 2nd year escalation of 8%	lexible copulation are of GTP of Rate	117 9.36 126.36 pper with low on the sheathed sure of following 11.31 0.9 12.21 re of following	Rm conductor itable for Rm sizes Nos.

	Maintenance for 2nd Year:							
	Chemical Earthing for grounding, conduits, IC cut outs and othered			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)							
	Basic rate		5500					
	Maintenance- 2nd year escalation of 8%		440					
	Walliterlance 2nd year escalation of 676	Rate	5940					
		itate	3340	TXIC				
	Matter Control							
	Maintenance for 2nd Year:							
61	Supply and running GI conductor for grounding and (along with of		n conduits syst	em of wiring)				
61	using necessasary suitable size clamps, nails, guttas/spacers etc	:-8 SWG						
	(Ref Electrical SOR SI No.7.22.3)							
	Basic rate		19.5					
	Maintenance- 2nd year escalation of 8%		1.56					
	Walliterlance- 2nd year escalation of 6 %	Data						
		Rate	21.06	KMt				
	Maintenance for 2nd Year:							
62	Supplying and stacking of good earth at site including royalty and	l carriage ι	ıpto 5 k.m. lead	l complete (earth				
02	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- 2nd year escalation of 8%		11.2					
	Indinternation End your obstitution of 676	Rate	151.20					
		itate	131.20	Oum				
	Maintenance for 2nd Year:							
		KCE	DD M000 44	O				
	KSRRB M300-Supply at site of work well decayed farm yard ma							
63	work well decayed farm yard manure, from any available soul							
	including screening and stackin complete as per specifications	s. MORTH	Specification	No. 308.2(Page				
	No.152,SI.No.19.90)							
	Danie vete	1	004	I				
	Basic rate 1997		204					
	Maintenance- 2nd year escalation of 8%		16.32					
	Add 10% For area weightage		22.03					
		Rate	242.35	Cum				
	Maintenance for 2nd Year:							
	KSRRB M300-Horticulture KSRRB M300-Spreading of sludge	farm var	d manure or/	and good earth				
	KSRRB M300-1. Spreading of sludge farm yard manure or/ and							
64	sludge, farm yard manure or/and good earth to be paid for se							
	MORTH Specification No. 307							
	(KPWD SR 16-17,Page No.150,SI No.19.77)							
	· · · · · · · · · · · · · · · · · · ·			T				
	Basic rate		103					
	Maintenance- 2nd year escalation of 8%		8.24					
	Add 10% For area wightage		11.12					
		Rate	122.36	Cum				
	Maintenance for 2nd Year:							
0.5								
65	Mixing earth and sludge or manure in the required proportion spe	citied or ai	rected by the C	micer-in-charge				
	(Non SOR item)							
	Rate Approved as per EOI by MD MSCL Mangalore,Refer							
	Sr.No.28		23.91					
	Maintenance- 2nd year escalation of 8%	Doto	1.91	C				
		Rate	25.82	Cum				
	W. t. d d Q L. V.							
	Maintenance for 2nd Year:							
	Maintenance of lawns or Turfing of slopes (rough grassing) for a	period of	one year includ	ding watering etc				
66	complete including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour							
•	complete including cost of all materials, scaffolding HOM of n	nachineries		and lifts, labour				
	complete including cost of all materials, scaffolding HOM of n charges including implementation of Environmental and Socia	nachineries		and lifts, labour				
	complete including cost of all materials, scaffolding HOM of n	nachineries		and lifts, labour				
	complete including cost of all materials, scaffolding HOM of n charges including implementation of Environmental and Social technical specifications and directions of Engineer-in-charge.	nachineries	rds & as per o	and lifts, labour design, drawing,				
	complete including cost of all materials, scaffolding HOM of n charges including implementation of Environmental and Socia	nachineries		and lifts, labour design, drawing,				

	Add 100/ For area wightens		11.12	
	Add 10% For area wightage	Data		
		Rate	122.36	Sqm
	TURF			
	Maintenance for 2nd Year:			
67	ZOYSIA JAPONICA (MAT)			
	(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:			
	Maintenance for 2nd fear.			
	supply and fixing of irrigation lines such that all the groon area	c and pla	nte ara adaque	italy watered: b
	supply and fixing of irrigation lines such that all the green area			
60	means of drip irrigation for trees , sub surface for shrubs and	lawn area		
69	means of drip irrigation for trees, sub surface for shrubs and sprinklers for lawn areas. (Equipment make - Rainbird or equivale	lawn area	s / ground cov	vers and pop u
69	means of drip irrigation for trees, sub surface for shrubs and sprinklers for lawn areas. (Equipment make - Rainbird or equivale All material used should be comply to BSI code. All the necessary	lawn area	s / ground cov	vers and pop u
69	means of drip irrigation for trees, sub surface for shrubs and sprinklers for lawn areas. (Equipment make - Rainbird or equivale All material used should be comply to BSI code. All the necessal commissioning to be installed.	lawn area	s / ground cov	vers and pop u
69	means of drip irrigation for trees , sub surface for shrubs and sprinklers for lawn areas. (Equipment make - Rainbird or equivale All material used should be comply to BSI code. All the necessa commissioning to be installed. (Non SOR Item)	lawn area	s / ground cov	vers and pop u
69	means of drip irrigation for trees , sub surface for shrubs and sprinklers for lawn areas. (Equipment make - Rainbird or equivale All material used should be comply to BSI code. All the necessa commissioning to be installed. (Non SOR Item) Rate Approved as per EOI by MD MSCL Mangalore,Refer	lawn area	as / ground cov	red for complete
69	means of drip irrigation for trees , sub surface for shrubs and sprinklers for lawn areas. (Equipment make - Rainbird or equivale All material used should be comply to BSI code. All the necessa commissioning to be installed. (Non SOR Item)	lawn area	s / ground cov	vers and pop up

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City 7.1 Abstract for Maintenance of Road and Other Work for DPR 6 - 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)	Cum	0.30	1107.57	,332
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)		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 18-19,18.20,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 (Page No 137,SI No : 18.23)	Cum	0.23	432.43	,99
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	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 18-19,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 18-19,SI No.19.64,Pg. No.149)	Sqm	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 2018-19)		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)	Rmt	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)		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)		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)	Rmt	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.		20.00	1022.56	20,451
30.00	(PWD SR 2018-19,P.No.86, SI.No.12.89) 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 2018-19,SI.No.24.36)	Rmt	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)	Rmt	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)		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)		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)	Rmt	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.	Sqm	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)	Sqm	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 18-19,S.I.No.21.17.1,Page No.163)	Cum	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	Nos.	50.00	356.05	17,803
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

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Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
42.00	specified in Road and Other works BOQ Item No.45.	Nos	4.00	68544.00	2,74,176
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.		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 Item No 17.4 KSRRB M100-4.1-Debris	Cum	70.00	115.81	8,107
	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
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

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
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.	240.00	694.40	166,656
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) Earthing system	Nos	8.00	3.49	28
60.00	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				
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

Sr.No.	Specification	Unit	Total Qty.	Rate	Amount
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
	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	382.19	129.20	49,379
	TURF				
	Maintenance for 3rd Year: ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	3.00	175.62	527
	IRRIGATION				
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	41,31,423

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City 7.2 M.S. For Maintenance of Road and Other Work for DPR 6 - 3rd Year

	7.2 M.S. For Maintenance of Road and Other	VVOIR IOI	DER 0 - 3	iu ieai	I		
Sr.No.	Specification	Unit	No.	L	В	D	Qty.
	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)		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)	Cum	1	1	1	0.3	0.30
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)		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	2	1	0.5	0.23	0.23
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)		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
	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
	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	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	МТ	1.00	3.84			3.84
	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	Cum	10.00	3.5	3.5	0.5	61.25
	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)		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)	Rmt	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).	Cum	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)	Cum	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)	Cum	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)		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)		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)	Sqm	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	4.00				4.00

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.	Cum	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.	240.00				240.00
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
56.00	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	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						
62.00	SOIL MIXES and Ground Preparation 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

Name of the Work :- Mangalore Smart City 7.3 R.A. For Maintenance of 3rd Year - DPR 6

	Maintenance for 3rd Year:							
	Taking out existing CC interlocking paver blocks from footpath/							
1	rubbish etc., disposal of unserviceable material to the dumping of							
	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:	ı	l. L					
	KSRRB M200.Dismantling of cement concrete pavement by me	echanica	l means using	n nueumatic				
	tools,breaking to pieces not exceeding 0.02 cum in volume and s							
2	and disposal of dismantled material stacking serviceble and u	•	•					
_	complete as per specifications.MORTH specification No.202.(Incl							
	and unloading for lead 5km-Extra)	duling the	insporting cha	rges,loading				
	(Page No 138,SI No : 18.47)							
	,		900					
	Basic rate Maintenance 2rd year application of 129/		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		•	erb 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- 3rd year escalation of 12%		1.44					
	Add 10% For area weightage (Mangalore City)		1.34					
		Rate	14.78	Rmt				
	Maintenance for 3rd Year:							
	KSRRB M200-13.1. Dismantling of existing structures like culverts	s, bridges	s, retaining wa	lls and other				
	structure comprising of masonry, cement concrete, wood world	•	•					
4	scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable materia							
-	and stacking the serviceable material with all lifts complete as pe							
	Means. A. Cement Concrete Grade M-15 &M-20. MORTH Spec							
	17,18.20,Page No.137)							
		1	200					
	Basic rate		390					
	Maintenance- 3rd year escalation of 12%		46.8					
	Add 10% For area weightage (Mangalore City)	D (43.68					
		Rate	480.48	Cum				
	Maintenance for 3rd Year:	_						
	KSRRB M200-12.1. Dismantling of existing structures like culverts	-	-					
	structure comprising of masonary, cement concrete, woodwork, steel work, including T&P and							
5	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)							
	Basic rate		351					
	Maintenance- 3rd year escalation of 12%		42.12					
	Add 10% For area weightage		39.31					
		Rate	432.43	O				
		Rate	432.43	Cum				

	Maintenance for 3rd Year:			. (0 0 1 1 (
	KSRRB M300-14. Excavation for roadwork in all types of soil with						
•	capacity including cutting and loading in tippers,trimming bottom a						
6	requirements of lines and grades and cross sections, and transpo	rting aisp	osai location	up to a lead			
	of 1.00Km and complete as per specifications.	ina ond u	nlooding for l	and Elem)			
	MORTH specification No.301(Including transporting charges, load (Page No 143,SI No : 19.14)	ing and u	moading for it	eau Skiii)			
	, , , , , , , , , , , , , , , , , , , ,	<u> </u>	44				
	Basic rate Maintenance, 3rd year application of 139/		41				
	Maintenance- 3rd year escalation of 12%		4.92				
	Add 10% For area weightage (Mangalore City)	Doto	4.59 50.51	Cum			
		Rate	50.51	Cum			
	Maintenance for 3rd Year:						
	KSRB 2-4 : Refilling available earth around pipe lines, cables in lay	ers not e	exceeding 20c	ms in depth			
7	compacting each deposited layer by ramming after watering with						
,	including cost of all labour complete as per specifications.(KPWD						
	interesting cost of all labour complete as per specimealierier (14 172	,	. to,. g	,			
	Basic rate		120				
	Maintenance- 3rd year escalation of 12%		14.4				
	Add 10% For area weightage (Mangalore City)		13.44				
		Rate	147.84	Cum			
	Maintenance for 3rd Year:						
	KSRRB 300-Compaction KSRRB 300-58. Compaction of original of	•		•			
8	of 8 to 10 tonnes power roller including filling in depression occurir						
	labour, HOM of machinery complete as per specifications. MORTH	1 / Chapte	er 3.(KPWD 1	6-17,SI			
	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			
	Maintan and a fan Ond Vaan						
	Maintenance for 3rd Year:	ata af mai	v MAE Crada	ith agains ant			
	KSRB 4-1.6; Providing and laying in position plain cement concr						
0	@ 240kgs, with 20mm and down size graded granite metal coars						
9	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,						
	2015-16)	T.Z. (I .IV	5.12, 1.140. 4.0	OIT WE OIL			
	Basic Rate		5900				
	Maintenance- 3rd year escalation of 12%		708				
	Add 10% For area weightage (Mangalore City)		660.8				
	Add 10701 of area weightage (Mangalore Oity)	Rate	7268.80	Cum			
		rtate	7 200.00	Juin			
	Maintenance for 3rd Year:						
	KSRRB M400-6.1. Construction of granular sub-base by provi	dina clos	se graded cri	ished stone			
	aggregates of granite / trap / basalt material, mixing in a mecha	-	-				
10	mixed material to work site, spreading in uniform layers with moti			•			
10	compacting with Plate compactor to achieve the desired density,	•	• •				
	Plant Mix Method Close graded granular sub-base material as p	•	•				
			J				
	Basic Rate		2166				
	Maintenance- 3rd year escalation of 12%		259.92				
	Add 10% For area weightage (Mangalore City)		242.59				
		Rate	2668.51	Cum			

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 granit cum with super plasticisers @3 liters confirming to IS 9103-1 mixed,concrete laid in layers not exceeding 15cms thick, vibrat footings, pedastals, retaining walls,return walls,walls (any thick columnspillars, posts, struts, buttresses, bed blocks,anchor blocklabour,HOM of machinery,curing,complete but excluding cost of respective contents.	te metal 1999 rea ted for a ness) inc cks & plir	coarse aggreg firmed -2008 Il works in for luding attache oths etc.,Includ	pate @ 0.47 at machine undation for ed pilasters, ding cost of
	(Page No 13,SI No : 4.10)			
	Basic Rate		6198	
	Maintenance- 3rd year escalation of 12%		743.76	
	Add 10% For area weightage (Mangalore City)		694.18	
	Add 10 % For area weightage (Mangalore City)	Data	7635.94	Cum
		Rate	7035.94	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	
	•		29.46	
	Add 10% For area weightage (Mangalore City)	Data		0
		Rate	324.02	Sqm
	Maintenance for 3rd Year:			
13	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	necessar materials	y complete as	per design
	Basic Rate		70782	
	Maintenance- 3rd year escalation of 12%		8493.84	
	Add 10% For area weightage (Mangalore City)		7927.58	
	Add 10% For area weightage (Mangalore City)	Data		NAT
		Rate	87203.42	MT
14	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	oreading, as per sp	grading to requestions (in	uired slope ocluding
	Basic Rate		513	
	Maintenance- 3rd year escalation of 12%		61.56	
	Add 20km lead (17.4 KSRRB M100-4.1-Cost of haulage		31.00	
	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		625.76	
		1		
	Add 10% For area weightage (Mangalore City)		62.58	
		Rate	688.34	Cum

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 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 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) Basic Rate	netal coa de with (o Aggrega g trail len plant,tra	rse aggregate coarse and fir te gradation a gth construction sported to si	e at 0.86cum ne aggregate ifter blending ion, concrete te,laid with a
	Maintenance- 3rd year escalation of 12%		485.76	
	Add 10% For area weightage (Mangalore City)		453.38	
	Add 10% for area weightage (Mangalore City)	Doto		Cum
		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 conspecification No.601 (RA attached)	netal coa de with (o Aggrega g trail len g plant,tra	rse aggregate coarse and fir te gradation a igth constructi ansported to s	e at 0.86cum ne aggregate ifter blending ion, concrete site,Manually
	,		2000	
	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	Maintenance for 3rd Year: 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 pet to site,laid with a fixed form paver spread,compacted and finished provision of contraction, expansio, construction and longitudin 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) Basic Rate	ite meta 2008(Co er approv I in a cor nal joints ealant, d ind,finish	al coarse agg parse and fin red mix design ntinuos operat s,including gre ebonding strip ing to lines ar	gregate with e aggregate n,transported ion including bove cutting o, dowel bars and grades as
			691.8	
	Maintenance- 3rd year escalation of 12%			
	Add 10% For area weightage (Mangalore City)	Dot-	645.68	C
		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 c mplete includ	nanufacturer, of the sealant
	Sr.No.2		115	
	Maintenance- 3rd year escalation of 10%		11.5	_
		Rate	126.5	Rmt

	,			
	Maintenance for 3rd Year:			
	KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar			
19	KSRRB M3000-8 Repairs of spalled joints grooves of contract			
19	expansion joints in concrete pavement using epoxy more	rtar con	crete compl	ete as per
1	specifications.Morth specification No.3005.1			
	(Page No 257,SI No : 35.8)			
	Basic Rate		331	
	Maintenance- 3rd year escalation of 12%		39.72	
	Add 10% For area weightage (Mangalore City)		37.07	
	Add 10/01 of area weightage (mangales elle)	Rate	407.79	
		1100	••••	
	Maintenance for 3rd Year:			<u>l</u>
	Providing and laying at or near ground level factory made kerb sto	ne of M-	20 grade cem	ent concrete
	in position to the required line, level and curvature, jointed with		•	
	coarse sand), including making joints with or without grooves (t			
22	curve shall not to more than 5mm), including making drainage or		•	
20	etc. as per direction of Engineer-in-charge (length of finished k			
		.erb eugi	ng shall be i	neasured to
	payment).			
	(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- 3rd year escalation of 12%	 	2125.06	
	Add 10% For area weightage (Mangalore City)	 	1983.39	
	Add 10701 of area weightage (Mangalore City)	Rate	21817.27	
		Nate	21011.21	Cum
-	Maintenance for 3rd Year:			
	machinery,loading,unloading,lead and lift,transportation etc.,compl (Page No 25,Sl No : 5.3)	lete		
	Basic rate		15481.61	
	Maintenance- 3rd year escalation of 12%		1857.79	
	Add 10% For area weightage		1733.94	
	Tidd 10701 of alloa ffolgridge	Rate	19073.34	
		Nuco	1001010.	- Cuiii
	Maintenance for 3rd Year:		<u> </u>	
	Providin and fixing pre cast solid concrete water table(longitudinal	al autter)	as nor the d	rawing made
	out of CC 1:2:4 and jointed with CM 1:3 and finishing			
22	·	•	J. J	
		irig,ieau	and lift,t	ransportation
	etc.,complete			
	(Page No 25,SI No : 5.3)		,	,
	Basic rate		15481.61	
	Maintenance- 3rd year escalation of 12%		1857.79	
	Add 10% For area weightage		1733.94	
		Rate	19073.34	Cum
	Maintenance for 3rd Year:		<u>l</u>	
	Removing and resetting of kerb stones. including cost of a	all mater	ials scaffold	ina HOM of
23	machineries with all lead and lifts, labour charges including imp			•
20	Social Safeguards & as per design, drawing, technical specificat			
	charge.	IUIIS and	UII CUIUI IS OI	Engineer-in
	·	Т	1 24	T
	Basic rate Maintenance 2nd year application of 129/	 	24	
	Maintenance- 3rd year escalation of 12%	 	2.88	
	Add 10% For area weightage	<u> </u>	2.69	
			^^ ==	_
		Rate	29.57	Cum

	Maintenance for 3rd Year:							
	KSRRB 800-1. Painting two coats after filling the surface with synt	thetic ena	mel paint in a	pproved				
24	shades on new plastered concrete surfaces, with materials, labour	r complete	e as per spec	ifications.				
	MORTH Chapter 8	•						
	(Page No 182,SI No : 24.1)							
	Basic Rate		80					
	Maintenance- 3rd year escalation of 12%		9.6					
	Add 10% For area weightage (Mangalore City)		8.96					
	That 1070 For area weightage (wangalere eity)	Rate	98.56					
		Nate	30.30	Oqiii				
	Maintenance for 3rd Year:							
25		nahala far	مرام اممانية	4:				
20	P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting.							
	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%	D - 1	904.18					
		Rate	9192.46	Nos.				
	Maintenance for 3rd Year:							
26	P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raise	ed footpa	th on SWD.					
26	(Rate analysis attached)							
	As per Quotation							
	Basic Rate		7179.00					
	Discount 30%		-2153.7					
	Sub Total		5025.3	4				
	Fixing Charges @5%	1	5025.5	4				
	Maintenance- 3rd year escalation of 12%		603.04					
	Ivialite natice- Sid year escalation of 1276	Rate	6130.87					
		Rate	0130.07	NOS.				
	Maintanana fan Ond Vaan							
	Maintenance for 3rd Year:		- 11-					
27	P/F FRP Water gully cover with frame (25T) 600mmx500 mm at l	evei tootp	eatn.					
	(Rate analysis attached)							
	As per Quotation							
	Basic Rate		7912.28					
	Discount 30%		-2373.68	-				
	Sub Total	1		-				
			5538.6	-1				
	Fixing Charges @5%		553.86					
	Maintenance- 3rd year escalation of 12%		664.63					
		Rate	6757.09	Nos.				
	Maintenance for 3rd Year:							
	Providing gully pipe lowering, laying of PVC 100 mm dia pipes to	the requ	uired alignme	nts includi				
28	specials and grade as indicated in drawings/design and hydraulic	ally testin	g of the pipe	line.The ra				
-	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 2016-1		-	•				
	Basic Rate	1	297					
			35.64					
	Maintenance- 3rd year escalation of 12%		35.04					
	Add 10% on Labor Charges=Rs.47,For area weightage		4.7					
	(Mangalore City)							
		Rate	337.34	Rm				
		<u> </u>						

	Maintenance for 3rd Year: KSRB 11-18-17.1 : Providing and fixing sand cast iron trap of 100r		•	•	
29	screwed down or hinged grating with or without vent arm including and floors, cost of materials, labour, testing, complete as per speci 11.1.10.	•			
	(PWD SR 2015-16,P.No.86, SI.No.12.89)				
	Basic Rate		830		
	Maintenance- 3rd year escalation of 12%		99.6		
	Add 10% For area weightage (Mangalore City)		92.96		
		Rate	1022.56	Nos.	
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 road 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 rof pipe at least half dia of pipe subject to minimum450 mm in cajoints 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 drawin Case-III: Triple row for three utility services. (PWD SR 2015-16,SI.No.24.36) Basic Rate Maintenance- 3rd year escalation of 12%	road (new ls, constraints sides of ock piece ase of do r than gre	w construction ructing head verting head verting head verting as es, outer to out ouble and triple ound level to perting to perting the perting as well as the perting to perting the perting as well as the perting to perting the perting as well as the perting to perting the perting the perting as well as well as the perting the perturbation that the perturbation the pe), extending valls at both per IRC:98-uter distance erow ducts, prevent entry	
	Add 10% For area weightage (Mangalore City)		562.46		
	The Toy of the distribution of the second of	Rate	6187.10	Rm	
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 presurcomforming to ASTMF 2160 and /or NEMA TC7. The expected sand accessories shall not be less than 50 years. (Market Rate)	5% whe ure and	en exposed to other physica	the normal	
	Basic Rate		1471.08		
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123)		78		
	Contractor Profit@10%		147.108		
	Add 10% For area weightage (Mangalore City)		7.8		
	Sub Total		1703.988		
	Maintenance- 3rd year escalation of 12%		204.48		
		Rate	1908.47	Rm	
32	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)				
	Basic Rate		996.3		
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123)		66		
	Contractor Profit@10%		99.63		
	Add 10% For area weightage (Mangalore City)		6.6		
	Sub Total		1168.53		
	Maintenance- 3rd year escalation of 12%		140.22		
		Rate	1308.75	Rm	
		Ī	1		

	Maintenance for 3rd Year:					
	Providing and Fixixng Spacers for Power Ducts of size 225 mm, to be placed at an interval of 1.5					
33	meter. Spacers shall be made of ABS raw material.	10 00 p				
	(Market rate)					
	Basic Rate		1003			
	Maintenance- 3rd year escalation of 12%		80.24			
	Contractor Profit@10%		100.3			
	Contractor Front C 1078	Rate	1183.54	Nos.		
		11000	1100101			
	Maintenance for 3rd Year:	l I	L			
0.4	Providing and Fixixng Spacers for Power Ducts of size 160 mm,	to be pla	aced at an into	erval of 1		
34	meter. Spacers shall be made of ABS raw material.	•				
	(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:					
	Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lubric	cant inner	layer for ICT f	ibre cab		
	comforming to ASTMF 2160 and /or equivalent indian standard a	nd convey	ing to work si	te includi		
35	loading and unloading at both destination and rolling, lowering in	•	•			
	jointing of pipe etc.Complete.		, , ,			
	(Market Rate)					
	Basic Rate		561.7			
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item					
	No.50,Pg.No.123)		36			
	· ·		56 17			
	Contractor Profit@10%		56.17			
	Contractor Profit@10% Add 12% For area weightage (Mangalore City)		3.6			
	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total		3.6 657.47			
	Contractor Profit@10% Add 12% For area weightage (Mangalore City)	Rate	3.6 657.47 78.9	Rm		
	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total	Rate	3.6 657.47	Rm		
	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12%	Rate	3.6 657.47 78.9	Rm		
	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year:		3.6 657.47 78.9 736.37			
26	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Supplying and Application charges required for stamping the fresh	ly laid nev	3.6 657.47 78.9 736.37 v concrete (Co	ncrete ra		
36	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 nev	3.6 657.47 78.9 736.37 v concrete (Coaccurately to the	ncrete ra		
36	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 nev	3.6 657.47 78.9 736.37 v concrete (Co accurately to the	ncrete ra		
36	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 nev	3.6 657.47 78.9 736.37 v concrete (Coaccurately to the oved stamp passealer.	ncrete ra		
36	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 a Basic rate	ly laid nev	3.6 657.47 78.9 736.37 v concrete (Co accurately to the oved stamp particular	ncrete ra		
36	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 nev	3.6 657.47 78.9 736.37 v concrete (Co accurately to the oved stamp particular	ncrete ra		
36	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 a Basic rate	ly laid nev o surface sing appro concrete s	3.6 657.47 78.9 736.37 v concrete (Coaccurately to the oved stamp particular	ncrete ra ne requir ttern and		
36	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 nev	3.6 657.47 78.9 736.37 v concrete (Co accurately to the oved stamp particular	ncrete ra		
36	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 a Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City)	ly laid nev o surface sing appro concrete s	3.6 657.47 78.9 736.37 v concrete (Coaccurately to the oved stamp particular	ncrete ra ne requir ttern and		
36	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 a Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City) Maintenance for 3rd Year:	ly laid new o surface sing appro concrete s	3.6 657.47 78.9 736.37 v concrete (Co accurately to the oved stamp parasealer. 624.00 74.88 69.89 768.77	ncrete rane requirentern and		
36	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 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, using the stones in the search of the search	ly laid nevel surface sing approconcrete sing Rate	3.6 657.47 78.9 736.37 v concrete (Conaccurately to the oved stamp paragraph of the overside o	ncrete rance require ttern and Sqm		
36	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 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	ly laid new or surface sing approconcrete sing Rate	3.6 657.47 78.9 736.37 v concrete (Co accurately to the oved stamp particular	ncrete rance require ttern and strength		
	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 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)	ly laid new or surface sing approconcrete sering Rate	3.6 657.47 78.9 736.37 v concrete (Coaccurately to the oved stamp paragraph of the ovel stamp o	ncrete rance requirements the requirements of the sand strength at evibration at evibr		
	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 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 un	ly laid new or surface sing approcessing approcessing ceme aminimum and companderneath	3.6 657.47 78.9 736.37 v concrete (Coaccurately to the cover stamp paragraph of the cover sealer. 624.00 74.88 69.89 768.77 ent and course compressive pacting with plus to come up	ncrete rance requirements the sand strength ate vibratin between		
	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 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 ur joints, final compaction of paver surface joints into its final level,	ly laid new or surface sing approcessing approcessing ceme aminimum and companderneath	3.6 657.47 78.9 736.37 v concrete (Coaccurately to the cover stamp paragraph of the cover sealer. 624.00 74.88 69.89 768.77 ent and course compressive pacting with plus to come up	ncrete rance requirements the sand strength at evibration between the sand strength at evibration the		
	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 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 ur joints, final compaction of paver surface joints into its final level, and HOM of machineries complete as per specifications.	ly laid new or surface sing approcessing approcessing ceme aminimum and companderneath	3.6 657.47 78.9 736.37 v concrete (Coaccurately to the cover stamp paragraph of the cover sealer. 624.00 74.88 69.89 768.77 ent and course compressive pacting with plus to come up	ncrete rance requirements the sand strength ate vibratin between		
	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 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 ur joints, final compaction of paver surface joints into its final level,	ly laid new or surface sing approcessing approcessing ceme aminimum and companderneath	3.6 657.47 78.9 736.37 v concrete (Coaccurately to the cover stamp paragraph of the cover sealer. 624.00 74.88 69.89 768.77 ent and course compressive pacting with plus to come up	ncrete rance requirements the sand strength at evibration between the sand strength at evibration the		
	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 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 ur 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 new or surface sing approcessing approcessing ceme aminimum and companderneath	3.6 657.47 78.9 736.37 v concrete (Coaccurately to the oved stamp paragraph of the ovel stamp of the ovel	ncrete rance requirements the sand strength at evibration between the sand strength at evibration the		
	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 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 ur 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 new or surface sing approcessing approcessing ceme aminimum and companderneath	3.6 657.47 78.9 736.37 v concrete (Conaccurately to the coved stamp parameter) 624.00 74.88 69.89 768.77 ent and course compressive pacting with plate to come up cost of mater	ncrete rance requirements the sander strength at the vibration in between the strength at the strength at the vibration between the strength at the strength a		
	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 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 ur 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 Maintenance- 3rd year escalation of 12%	ly laid new or surface sing approcessing approcessing ceme aminimum and companderneath	3.6 657.47 78.9 736.37 V concrete (Conaccurately to the over stamp parameter) 624.00 74.88 69.89 768.77 The ent and course of compressive pacting with plant to come up cost of material and course of the complex of	ncrete rance requirements the sander strength at evibration in between the strength at evibration strength at evib		
36	Contractor Profit@10% Add 12% For area weightage (Mangalore City) Sub Total Maintenance- 3rd year escalation of 12% 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 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 ur 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 new or surface sing approcessing approcessing ceme aminimum and companderneath	3.6 657.47 78.9 736.37 v concrete (Conaccurately to the coved stamp parameter) 624.00 74.88 69.89 768.77 ent and course compressive pacting with plate to come up cost of mater	ncrete rance requirements the sander strength at the vibration in between the strength at the strength at the vibration between the strength at the strength a		

38	Maintenance for 3rd Year: KSRRB M500-17. Providing and laying dense graded bitum aggregates of specified grading, premixed with VG30 grade bitum hot mix to work site, laying to the required grade, level and alignivibratory and tandem rollers to achieve the desired compactic complete in all respects complete as per specifications MOF 100/120 TPH capacity H.M.P. with sensor paver Gr-II (50 mr Bitumen(KPWD 16-17,S.I.No.21.17.1,Page No.163) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage (Mangalore City)	ninous bi ment, rol on as p RTH Spe	nder and, trai ling with smo er MORTH t cification No	nsporting the oth wheeled, table 500-10 . 507 -using .5 % VG-30	
39	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				
	Basic rate		8761		
	Maintenance- 3rd year escalation of 12%		1051.32		
	Add 10% For area weightage (Mangalore City)		981.23		
	That To 70 For area weightage (mangalore etty)	Rate	10793.55		
		ivate	10733.33	Oum	
40	KSRRB M800 Road markers / Road stud KSRRB M800-35. Prov 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	and grit, to a dept	fitted with len h of 60 mm a 4:1973 com	se reflectors, nd bedded in plete as per	
	Basic rate		289		
	Maintenance- 3rd year escalation of 12%		34.68		
	Add 10% For area weightage (Mangalore City)		32.37		
		Rate	356.05	Nos.	
41	Maintenance for 3rd Year: Road Marking with hot applied Thermoplastic Compound with Refl Surface:Providing and laying of hot applied thermoplastic conflectorising glass beads at 250 gms and 2 ltr of primer per exclusive of surface applied glass beads as per IRC:35.The finish free from streak and holes complete as per specifications.MORTH (Page No 192,SI No : 24.57)	ompound sqm are ned surfa	d 2.5mm thi ea,thickness ce to be leve	ck including of 2.5mm is	
	Basic Rate		429		
	Maintenance- 3rd year escalation of 12%		51.48		
	Add 10% For area weightage (Mangalore City)		48.05		
	To /o O area weightage (Mangalore Oity)	Data	528.53		
		Rate	520.55	Sqm	
42	Maintenance for 3rd Year: Operation and Maintenance for eToilets Stainless Steel Public Moworks BOQ Item No.45.	del as sp			
	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:					
43	Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-					
43	charge					
	(NON SOR Item)		1			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer		4500.00			
	Sr.No.13		4500.00			
	Maintenance- 3rd year escalation of 12%	Doto	540 5040	Nos.		
		Rate	5040	NOS.		
	Maintenance for 3rd Year:		<u> </u>			
4.4	Providing and fixing of railing as detail design in MS HOLLOW SEC	CTION a	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		
	Maintenance for 3rd Year:	اعتلمون	wa wa a a a a a a a a a a a a a a a a a	- المنام ما		
	Excavation and removal of silt and silt mixed with sand in slussy co					
45	disposing off the same in spoil bank or on the canal embankment i 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			n an		
	implementation of Environmental and Social Safeguards & as per of			ral		
	specifications and directions of Engineer-in-charge.	acoigii, c	ilawing, tooliin	Jul		
	Basic Rate		179.00			
	Maintenance- 3rd year escalation of 12%		21.48			
	maintenance ora year eccalation of 1270		21.10			
	·	Rate	200.48	Nos.		
	Maintenance for 3rd Year:	Rate	200.48	Nos.		
46	Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth	eyond in	itial Lead	Nos.		
46	Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth	eyond in	itial Lead	Nos.		
46	Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate	eyond in	itial Lead	Nos.		
46	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 in	.28x10km 25.60	Nos.		
46	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 in	.28x10km 25.60 68.00	Nos.		
46	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 in	.28x10km 25.60	Nos.		
46	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 in	.28x10km 25.60 68.00 93.60	Nos.		
46	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 in	.28x10km 25.60 68.00 93.60	Nos.		
46	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 in	.28x10km 25.60 68.00 93.60 9.36 102.96	Nos.		
46	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 in	.28x10km 25.60 68.00 93.60	Nos.		
46	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 in	.28x10km 25.60 68.00 93.60 9.36 102.96 12.36			
46	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%	eyond in	.28x10km 25.60 68.00 93.60 9.36 102.96 12.36			
	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 in 2.0x1 Rate	.28x10km 25.60 68.00 93.60 9.36 102.96 12.36 115.32			
46	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%	eyond in 2.0x1 Rate	.28x10km 25.60 68.00 93.60 9.36 102.96 12.36 115.32			
	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 in 2.0x1 Rate eyond in	.28x10km 25.60 68.00 93.60 9.36 102.96 12.36 115.32			
	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 Debris	eyond in 2.0x1 Rate eyond in	.28x10km 25.60 68.00 93.60 9.36 102.96 12.36 115.32 itial Lead			
	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 Debris Baisc rate	eyond in 2.0x1 Rate eyond in	.28x10km 25.60 68.00 93.60 9.36 102.96 12.36 115.32			
	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 Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-	eyond in 2.0x1 Rate eyond in	.28x10km 25.60 68.00 93.60 9.36 102.96 12.36 115.32 itial Lead			
	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 Debris Baisc rate	eyond in 2.0x1 Rate eyond in	.28x10km 25.60 68.00 93.60 9.36 102.96 12.36 115.32 itial Lead .30x10Km			
	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 Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-	eyond in 2.0x1 Rate eyond in	.28x10km 25.60 68.00 93.60 9.36 102.96 12.36 115.32 itial Lead .30x10Km 26.00 68.00			
	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 Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1) Sub Total-1	eyond in 2.0x1 Rate eyond in	.28x10km 25.60 68.00 93.60 9.36 102.96 12.36 115.32 itial Lead .30x10Km			
	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 Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1)	eyond in 2.0x1 Rate eyond in	.28x10km 25.60 68.00 93.60 9.36 102.96 12.36 115.32 itial Lead .30x10Km 26.00 68.00			
	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 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 in 2.0x1 Rate eyond in	.28x10km 25.60 68.00 93.60 93.60 102.96 12.36 115.32 itial Lead .30x10Km 26.00 68.00 94.00 9.4			
	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 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-2	eyond in 2.0x1 Rate eyond in	.28x10km 25.60 68.00 93.60 9.36 102.96 12.36 115.32 itial Lead .30x10Km 26.00 68.00 94.00 9.4 103.40			

	Maintenance for 2nd Vocas							
	Maintenance for 3rd Year:	nt concre	to					
48	Dismantling of pole/ street light standard/ strut embedded in ceme	ent concre	le					
10	foundation etc. as required (Delhi analysis of rates E & M 2016, item 12.42, pg 395))							
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.22		938					
	Maintenance- 3rd year escalation of 12%		112.56					
	, ,	Rate	1050.56	Nos.				
			1000100					
	Maintenance for 3rd Year:		1					
	Lighting Pole, 7 m							
	Fabrication, suppl and erection of 7 meters long hot dip Galvanise	ed Octago	nal pole 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 per		•					
-10	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 galve							
	less than 65 micron as per ASTM - A123 and 153 etc., (excluding		• •					
	appended	Touridatio	ii) as pei diawi	ıı ıg				
	(Ref Electrical SOR SI No. 5.14.5)							
	Basic rate		12420					
	Maintenance- 3rd year escalation of 12%		1490.4					
	IMaintenance- ord year escalation of 1270	Rate	13,910.40	Nos.				
	Operation 9 Maintenance for 2nd Veen	Rate	13,910.40	NOS.				
	Operation & Maintenance for 3rd Year:							
	Lighting Pole, 4 m		t t tale	OF 4000				
	Fabrication, supply and erection of 4 meters long hot dip Galvanis	•	•					
	grade S 355 JO steel plate for shaft, IS 2062 for base plate with d	•	•	_				
	suitable boards, bakelite sheet and MCBs as per IS specifications							
50	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 base plate and 4 nos. of long J						
	bolts along with template and the pole shall be hot dip galvanized in single dipp		_					
		•	dipping with not	t less than				
	65 micron as per ASTM - A123 and 153 etc., (excluding foundation	•	dipping with not	t less than				
		•	dipping with not	t less than				
	65 micron as per ASTM - A123 and 153 etc., (excluding foundation (Ref Electrical SOR SI No.5.14.2)	•	dipping with not drawing appen	t less than				
	65 micron as per ASTM - A123 and 153 etc., (excluding foundation (Ref Electrical SOR SI No.5.14.2) Basic rate	•	dipping with not drawing appen 7398	t less than				
	65 micron as per ASTM - A123 and 153 etc., (excluding foundation (Ref Electrical SOR SI No.5.14.2)	n) as per	dipping with not drawing appen 7398 887.76	t less than ded				
	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%	•	dipping with not drawing appen 7398	t less than				
	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:	Rate	dipping with not drawing appen 7398 887.76 8,285.76	t less than ded				
51	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for	Rate	dipping with not drawing appen 7398 887.76 8,285.76	t less than ded				
51	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete	Rate	dipping with not drawing appen 7398 887.76 8,285.76	t less than ded				
51	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm	Rate	dipping with not drawing appen 7398 887.76 8,285.76	t less than ded				
51	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5)	Rate	7398 887.76 8,285.76	t less than ded				
51	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate	Rate	7398 887.76 8,285.76	t less than ded				
51	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5)	Rate	7398 887.76 8,285.76 luminaries and	Nos. mounted				
51	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Maintenance- 3rd year escalation of 12%	Rate	7398 887.76 8,285.76	t less than ded				
51	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Maintenance- 3rd year escalation of 12% Operation & Maintenance for 3rd Year:	Rate r outdoor	7398 887.76 8,285.76 luminaries and 3540 424.8 3,964.80	Nos. Nos.				
	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Maintenance- 3rd year escalation of 12% Operation & Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for	Rate r outdoor	7398 887.76 8,285.76 luminaries and 3540 424.8 3,964.80	Nos. Nos.				
51	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Maintenance- 3rd year escalation of 12% Operation & Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete	Rate r outdoor	7398 887.76 8,285.76 luminaries and 3540 424.8 3,964.80	Nos. Nos.				
	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Maintenance- 3rd year escalation of 12% Operation & Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Single Cross arm - 1500 mm	Rate r outdoor	7398 887.76 8,285.76 luminaries and 3540 424.8 3,964.80	Nos. Nos.				
	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Maintenance- 3rd year escalation of 12% Operation & Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete	Rate r outdoor	7398 887.76 8,285.76 luminaries and 3540 424.8 3,964.80	Nos. Nos.				
	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Maintenance- 3rd year escalation of 12% Operation & Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2) Basic rate	Rate r outdoor	7398 887.76 8,285.76 luminaries and 3540 424.8 3,964.80	Nos. Nos.				
	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Maintenance- 3rd year escalation of 12% Operation & Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2)	Rate r outdoor	7398 887.76 8,285.76 luminaries and 3540 424.8 3,964.80	Nos. Nos.				
	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Maintenance- 3rd year escalation of 12% Operation & Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2) Basic rate	Rate r outdoor	7398 887.76 8,285.76 luminaries and 3540 424.8 3,964.80	Nos. Nos.				
	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Maintenance- 3rd year escalation of 12% Operation & Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2) Basic rate	Rate r outdoor	7398 887.76 8,285.76 luminaries and 3540 424.8 3,964.80 luminaries and	Nos. Mos. Mos. mounted				
52	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Maintenance- 3rd year escalation of 12% Operation & Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2) Basic rate Maintenance- 3rd year escalation of 12%	Rate Rate Rate Rate Rate	7398 887.76 8,285.76 luminaries and 3540 424.8 3,964.80 luminaries and 2400 288 2,688	Nos. Mos. Mos. Mos. Mos.				
	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Maintenance- 3rd year escalation of 12% Operation & Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2) Basic rate Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Painting of Existing street light pole after scrapping the old paint as	Rate Rate r outdoor Rate r outdoor	7398 887.76 8,285.76 luminaries and 3540 424.8 3,964.80 luminaries and 2400 288 2,688 d with suitable of	Nos. Mos. Mos. Mos. Mos.				
52	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Maintenance- 3rd year escalation of 12% Operation & Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2) Basic rate Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Painting of Existing street light pole after scrapping the old paint a enamel including coping/footing of the pole8mtr and above street	Rate Rate r outdoor Rate r outdoor	7398 887.76 8,285.76 luminaries and 3540 424.8 3,964.80 luminaries and 2400 288 2,688 d with suitable of	Nos. Mos. Mos. Mos. Mos.				
52	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: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Maintenance- 3rd year escalation of 12% Operation & Maintenance for 3rd Year: Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for on Octagonal pole using necessary bolts, nuts, etc. complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2) Basic rate Maintenance- 3rd year escalation of 12% Maintenance for 3rd Year: Painting of Existing street light pole after scrapping the old paint as	Rate Rate r outdoor Rate r outdoor	7398 887.76 8,285.76 luminaries and 3540 424.8 3,964.80 luminaries and 2400 288 2,688 d with suitable of	Nos. Mos. Mos. Mos. Mos.				

54 Su wi wi Pr M Su	Idaintenance- 3rd year escalation of 12% Judoor Box and Switch Gear Jaintenance for 3rd Year: Jupply, installation, testing and commissioning of outdoor junction in all required accessories and components Jupply and fixing of miniature circuit breaker on exisiting board using type curve, indicator ON/OFF, energy cross-3 with short circuit bromplete wiring as required confirming to IEC 60898 Jaintenance- 3rd year escalation of 12% Jupply and fixing of miniature circuit breaker on exisiting board using type curve, indicator ON/OFF, energy cross-3 with short circuit bromplete wiring as required confirming to IEC 60898 Jaintenance- 3rd year escalation of 12% T Cable Jaintenance for 3rd Year:	Rate ng neces	11783 1413.96 13,197 ssasary fixing	Nos. Nos. Nos. Material and Company KA	
54 Si wi	laintenance for 3rd Year: upply, installation, testing and commissioning of outdoor junction with all required accessories and components rice list (Considering 30% discount, 18% GST & 10% profit) laintenance- 3rd year escalation of 12% laintenance for 3rd Year: upply and fixing of miniature circuit breaker on exisiting board using type curve, indicator ON/OFF, energy cross-3 with short circuit bromplete wiring as required confirming to IEC 60898 - 32A TPN lectrical SOR- 6.16.5) asic rate laintenance- 3rd year escalation of 12% T Cable	Rate ng neces	11783 1413.96 13,197 ssasary fixing capacity of 10	Nos. material and O KA	
54 Si wi wi M Si	laintenance for 3rd Year: upply, installation, testing and commissioning of outdoor junction with all required accessories and components rice list (Considering 30% discount, 18% GST & 10% profit) laintenance- 3rd year escalation of 12% laintenance for 3rd Year: upply and fixing of miniature circuit breaker on exisiting board using type curve, indicator ON/OFF, energy cross-3 with short circuit bromplete wiring as required confirming to IEC 60898 - 32A TPN lectrical SOR- 6.16.5) asic rate laintenance- 3rd year escalation of 12% T Cable	Rate ng neces oreaking	11783 1413.96 13,197 ssasary fixing capacity of 10	Nos. material and	
54 Su wi	upply, installation, testing and commissioning of outdoor junction with all required accessories and components rice list (Considering 30% discount, 18% GST & 10% profit) laintenance- 3rd year escalation of 12% laintenance for 3rd Year: upply and fixing of miniature circuit breaker on exisiting board using type curve, indicator ON/OFF, energy cross-3 with short circuit bromplete wiring as required confirming to IEC 60898 - 32A TPN lectrical SOR- 6.16.5) asic rate laintenance- 3rd year escalation of 12% T Cable	Rate ng neces oreaking	11783 1413.96 13,197 ssasary fixing capacity of 10	Nos. material and	
55 MS SC CC CC S-EI BS M	laintenance- 3rd year escalation of 12% laintenance for 3rd Year: upply and fixing of miniature circuit breaker on exisiting board using type curve, indicator ON/OFF, energy cross-3 with short circuit bromplete wiring as required confirming to IEC 60898 - 32A TPN lectrical SOR- 6.16.5) asic rate laintenance- 3rd year escalation of 12% T Cable	ng neces breaking	1413.96 13,197 ssasary fixing capacity of 10 1547 185.64	Mos. material and	
55 CC CC 5-EI Ba M	laintenance for 3rd Year: upply and fixing of miniature circuit breaker on exisiting board usi by type curve, indicator ON/OFF, energy cross-3 with short circuit to the omplete wiring as required confirming to IEC 60898 - 32A TPN lectrical SOR- 6.16.5) asic rate laintenance- 3rd year escalation of 12% T Cable	ng neces breaking	13,197 ssasary fixing capacity of 10 1547 185.64	material and	
55 CC CC 5-EI Ba M	laintenance for 3rd Year: upply and fixing of miniature circuit breaker on exisiting board usi by type curve, indicator ON/OFF, energy cross-3 with short circuit to the omplete wiring as required confirming to IEC 60898 - 32A TPN lectrical SOR- 6.16.5) asic rate laintenance- 3rd year escalation of 12% T Cable	ng neces breaking	13,197 ssasary fixing capacity of 10 1547 185.64	material and	
55 Si C C C C C C C C C	upply and fixing of miniature circuit breaker on exisiting board using type curve, indicator ON/OFF, energy cross-3 with short circuit be complete wiring as required confirming to IEC 60898 - 32A TPN lectrical SOR- 6.16.5) asic rate laintenance- 3rd year escalation of 12%	ng neces breaking	sasary fixing capacity of 10 1547 185.64	material and O KA	
55 Si CC CC 5-5-EI MM	upply and fixing of miniature circuit breaker on exisiting board using type curve, indicator ON/OFF, energy cross-3 with short circuit be complete wiring as required confirming to IEC 60898 - 32A TPN lectrical SOR- 6.16.5) asic rate laintenance- 3rd year escalation of 12%	oreaking	1547 185.64) KA	
M L ¹ M St	laintenance- 3rd year escalation of 12% T Cable	Rate	185.64		
L ⁻ M St	T Cable	Rate			
M Su		Rate	1,733	NOS.	
M Su			}		
M Su					
St	laintenance for 3rd Year:				
56 P\	alvanised, steel strips (except 2C x 10 sq. mm wire armoured) as VC outer sheathed armoured cable as per IS - 1554 Part 1:1988 Core x16 Sq.mm PVC Aluminium Conductor, Ref Electrical SOR SI No.7.5,7.5.4)				
B.	asic rate		117		
	laintenance- 3rd year escalation of 12%		14.04		
101	lamenance ord year escalation of 1270	Rate	131.04	Rm	
М	laintenance for 3rd Year:	Nate	131.04	IXIII	
57 cc	upply and drawing flexible multicore cable with electrolyte grade fonforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC instorking voltage up to 1100 V as per IS-694:1990 and conforming t C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	sulation a	nd sheathed		
	asic rate		81.6		
M	laintenance- 3rd year escalation of 12%		9.79		
		Rate	91.39	Rm	
58 St	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)				
(F	asic rate		11.31		
Вa	laintananaa Ondusan aasalatian af 400/		1.36		
Вa	laintenance- 3rd year escalation of 12%	— 4	40.07	Nos.	
Вa	laintenance- 3rd year escalation of 12%	Rate	12.67	1103.	
Ba M	, and the second	Rate	12.67	1403.	
59 St 2 (R	laintenance for 3rd Year: upplying tinned copper lugs and crimping and wiring to terminal p 2.5 sq. mm copper conductor Ref Electrical SOR SI No.7.21.2)		vire of followin	ng sizes	
59 Su (R	laintenance for 3rd Year: upplying tinned copper lugs and crimping and wiring to terminal p 2.5 sq. mm copper conductor Ref Electrical SOR SI No.7.21.2) asic rate		vire of followin	ng sizes	
59 Su (R	laintenance for 3rd Year: upplying tinned copper lugs and crimping and wiring to terminal p 2.5 sq. mm copper conductor Ref Electrical SOR SI No.7.21.2)		vire of followin	ng sizes	

	Maintenance for 3rd Year:			
	Chemical Earthing for grounding, conduits, IC cut outs and othered			ardby using
	copper /SS rod with earth enhancing backfill compound which is	non corro	sive	
60	,thermally,conductive,potential,to permissible,limits,superior,fault,	conductive	e 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)			
	Basic rate		5500	
	Maintenance- 3rd year escalation of 12%		660	
	,	Rate	6160	Kit
	Maintenance for 3rd Year:			
	Supply and running GI conductor for grounding and (along with o	ther wires	in conduits sv	stem of
61	wiring) using necessasary suitable size clamps, nails, guttas/space			
	(Ref Electrical SOR SI No.7.22.3)	,0,0 0,0 0		
	Basic rate		19.5	
	Maintenance- 3rd year escalation of 12%		2.34	
	Walnestance ord year escalation of 1270	Rate	21.84	Rmt
		Nate	21.04	Kilit
	Maintenance for 3rd Year:			
		d corridge	unto Elem lo	ad aamalata
62	Supplying and stacking of good earth at site including royalty and	carnage	upto 5 k.m. le	ad complete
	(earth measured in stacks will be reduced by 20% for payment).			
	(Non SOR Item)		1	
	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
	Maintenance for 3rd Year:			
	Maintenance for 3rd Year: KSRRB M300-Supply at site of work well decayed farm yard man	ure KSRR	RB M300-11. S	supply at site
63				
63	KSRRB M300-Supply at site of work well decayed farm yard man	ource, app	proved by the	engineer in
63	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specific	ource, app	proved by the	engineer in
63	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specif 308.2(Page No.152,SI.No.19.90)	ource, app	proved by the MORTH Spec	engineer in
63	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specifi 308.2(Page No.152,SI.No.19.90) Basic rate	ource, app	proved by the MORTH Spec	engineer in
63	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specif 308.2(Page No.152,SI.No.19.90) Basic rate Maintenance- 3rd year escalation of 12%	ource, app	oroved by the MORTH Spec 204 24.48	engineer in
63	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specifi 308.2(Page No.152,SI.No.19.90) Basic rate	ource, app	204 24.48 22.85	engineer in ification No.
63	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specif 308.2(Page No.152,SI.No.19.90) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage	ource, app	oroved by the MORTH Spec 204 24.48	engineer in
63	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specific 308.2(Page No.152,SI.No.19.90) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year:	Rate	204 24.48 22.85 251.33	engineer in ification No.
63	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specific 308.2(Page No.152,SI.No.19.90) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge face	Rate	204 24.48 22.85 251.33	engineer in ification No. Cum d good earth
	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specific 308.2(Page No.152,SI.No.19.90) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge fat KSRRB M300-1. Spreading of sludge farm yard manure or/ ar	Rate arm yard nad good e	204 24.48 22.85 251.33 251.33	cum d good earthed thickness
63	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specific 308.2(Page No.152,SI.No.19.90) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge fat KSRRB M300-1. Spreading of sludge farm yard manure or/ ar (cost of sludge, farm yard manure or/and good earth to be page.)	Rate arm yard nad good e	204 24.48 22.85 251.33 251.33	cum d good earthed thickness
	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specifications. MORTH Specification No. 307	Rate arm yard nad good e	204 24.48 22.85 251.33 251.33	cum d good earthed thickness
	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specific 308.2(Page No.152,SI.No.19.90) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge fat KSRRB M300-1. Spreading of sludge farm yard manure or/ ar (cost of sludge, farm yard manure or/and good earth to be page.)	Rate arm yard nad good e	204 24.48 22.85 251.33 251.33	Cum d good earthed thickness
	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specifications. MORTH Specification No. 19.77	Rate arm yard nad good e	204 24.48 22.85 251.33 251.33 251.33	Cum d good earthed thickness
	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specification as a per specific screen with the second stackin complete as per specific screen with the second stackin complete as per specific screen with the second stackin complete as per specific screen with the second stackin complete as per specific screen with the second stackin complete as per specific screen with the second stackin complete as per specific screen with the second screen	Rate arm yard nad good e	204 24.48 22.85 251.33 nanure or/ and arth in require parately) comp	Cum d good earthed thickness
	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specification of stacking of stack	Rate arm yard nad good e	204 24.48 22.85 251.33 nanure or/ and arth in require parately) comp	Cum d good earthed thickness
	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specification as a per specific screen with the second stackin complete as per specific screen with the second stackin complete as per specific screen with the second stackin complete as per specific screen with the second stackin complete as per specific screen with the second stackin complete as per specific screen with the second stackin complete as per specific screen with the second screen	Rate arm yard not good eaid for separate	204 24.48 22.85 251.33 nanure or/ and arth in require parately) compared to the compared to t	Cum d good earth ed thickness olete as per
	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specification and sta	Rate arm yard nad good e	204 24.48 22.85 251.33 nanure or/ and arth in require parately) comp	Cum d good earthed thickness
	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specification of 12%. Maintenance- 3rd year escalation of 12%. Maintenance for 3rd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge fark KSRRB M300-1. Spreading of sludge farm yard manure or/ard (cost of sludge, farm yard manure or/and good earth to be paspecifications. MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77) Basic rate Maintenance- 3rd year escalation of 12%. Add 10% For area wightage. Maintenance for 3rd Year:	Rate Rate Rate Rate Rate Rate	204 24.48 22.85 251.33 nanure or/ and arth in require parately) comparately) comparately 103 12.36 11.54 126.90	Cum d good earth ed thickness olete as per
	KSRRB M300-Supply at site of work well decayed farm yard man of work well decayed farm yard manure, from any available so charge including screening and stackin complete as per specification of 200.2 (Page No.152,SI.No.19.90) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area weightage Maintenance for 3rd Year: KSRRB M300-Horticulture KSRRB M300-Spreading of sludge fark KSRRB M300-1. Spreading of sludge farm yard manure or/ ard (cost of sludge, farm yard manure or/and good earth to be paspecifications. MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77) Basic rate Maintenance- 3rd year escalation of 12% Add 10% For area wightage Maintenance for 3rd Year: Mixing earth and sludge or manure in the required proportion specification and sludge or manure in the required proportion specification.	Rate Rate Rate Rate Rate Rate	204 24.48 22.85 251.33 nanure or/ and arth in require parately) comparately) comparately 103 12.36 11.54 126.90	Cum d good earthed thickness olete as per
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	Maintenance- 3rd year escalation of 12%		67.2			
		1	555.56			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.34		560.00			
	(Non SOR Item)	<u> </u>				
	complete commissioning to be installed.					
	All material used should be comply to BSI code. All the neces	ssary valu	e and pump	required		
69	up sprinklers for lawn areas. (Equipment make - Rainbird or equiv	,	-	·		
	by means of drip irrigation for trees , sub surface for shrubs and	lawn areas		-		
	supply and fixing of irrigation lines such that all the green areas	and plants	are adequat	tely watere		
	Maintenance for 3rd Year:					
	,	Rate	33384.67	Year		
	Maintenance- 3rd year escalation of 12%		3449.34			
	Add 10% For area wightage		1190.848			
	Mazdoor = 0.5 days x 258.88		11908.48			
	days,consider watering at every 3 days)					
	61rs/hr (365days-90 days of mansoon=275 days/3 days=92		10030			
	Water Tanker =61 Rs/ Hour,One Year Cost=92 days x 3 hrs x		16836			
68	Watering with tanker to landscape area and plants for one year					
	Maintenance for 3rd Year:					
	INNIGATION					
	IRRIGATION					
		Rate	175.62	Sqm		
	Maintenance- 3rd year escalation of 12%		18.82			
	Sr.No.32		156.80			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer					
	(Non SOR Item)					
67	ZOYSIA JAPONICA (MAT)					
	Maintenance for 3rd Year:					
	TURF					
		Rate	129.20	Sqm		
	Add 12% For area wightage		13.84			
	Maintenance- 3rd year escalation of 12%		12.36			
	Basic rate		103			
	design, drawing, technical specifications and directions of Engine	er-in-charg	je.			
	and lifts, labour charges including implementation of Environmen					
66	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					

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City 8.1 Abstract for Maintenance of Road and Other Work for DPR 6 - 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)	Sqm	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	0.30	1147.12	,344
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 18-19,18.20,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 (Page No 137,SI No : 18.23)	Cum	0.23	447.88	103
6.00	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 18-19,SI No.2.11,Pg. No.6)	O	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 18-19,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 2018-19)	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

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	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)	Cum	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)		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).	Cum	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)	Cum	2.79	20113.71	56,117

	Specification	Unit	Total Qty.	Rate	Amount
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	1.18	20113.71	23,734
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 4th 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 4th 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 4th 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)	Rmt	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.	Nos.	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 2018-19,SI.No.24.36)	Rmt	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

	Specification	Unit	Total Qty.	Rate	Amount
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
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

	Specification	Unit	Total Qty.	Rate	Amount
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
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	4.00	70992.00	2,83,968
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.	Cum	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
	Electrical Works				
48.00	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

	Specification	Unit	Total Qty.	Rate	Amount
50.00	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	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.	240.00	719.20	172,608
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	13668.28	13,668
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	1794.52	1,795
	LT Cable				
56.00	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	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	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	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	8.00	3.62	29
	Earthing system	J			

	Specification	Unit	Total Qty.	Rate	Amount
60.00	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	1.00	6380.00	6,380
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	50.00	22.62	1,131
	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)	Cum	1.50	162.40	244
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	0.75	260.30	195
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	2.00	131.43	263
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	2.00	27.74	55
	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	382.19	131.43	50,231
	TURF				
67.00	Operation & Maintenance for 4th Year: ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	3.00	181.89	546
68.00	IRRIGATION Operation & Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year	Year	1.00	34534.45	34,534
69.00	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	649.60	1,949
				Total	42,37,590
				i Otal	72,57,530

Name of the Work :- Mangalore Smart City 8.2 M.S. For Maintenance of Road and Other Work for DPR 6- 4th Year

_	8.2 M.S. For Maintenance of Road and Ot						
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)	Sam	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	1	1	1	0.3	0.30
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)		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	2	1	0.5	0.23	0.23
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)		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
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 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

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
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		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)		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)		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		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 rollercompaction 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
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

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
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)		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	0.103		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)		1	100	0.0279		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)		1	100	0.0118		1.18
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	0.165		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.	Nos.	5.00				5.00
	(Rate analysis attached)		<u> </u>				

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Sr.No.	Specification	Unit	No.	L	В	D	Qty.
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)		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
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

	75.00
0.15	6.00
0.04	1.60
	50.00
	600.00
	4.00
	2.00
	0.10
0.1	1015.00
	200.00
	0.04

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Sr.No.	Specification	Unit	No.	L	В	D	Qty.
	Electrical Works						
48.00	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)		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.	240.00				240.00
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
56.00	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	1	60.00			60.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
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
	Earthing system Maintenance for 4th Year: Chemical Earthing for grounding,conduits,IC cut outs and otherequipmentson						
60.00	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						
62.00	SOIL MIXES and Ground Preparation 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
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
67.00	TURF Maintenance for 4th Year: ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	1	5	0.6		3.00
68.00	IRRIGATION Maintenance for 4th Year: Watering with tanker to landscape area and plants for one year	Year	1.00				1.00

Sr.No.	Specification	Unit	No.	L	В	D	Qty.
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 6

	8.3 R.A. For Maintenance of 4th Year -			
	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 as	s per direction	of Engineer-in-
	Charge.(RA attached)			
	Basic rate		68.16	
	Maintenance- 4th year escalation of 16%		10.91	
	·	Rate	79.07	Sqm
	Maintenance for 4th Year:			
	KSRRB M200.Dismantling of cement concrete pavement by	mechar	nical means us	ing pueumatic
	tools, breaking to pieces not exceeding 0.02 cum in volume and s	stock pilli	ng at designated	d locations and
2	disposal of dismantled material stacking serviceble and unservic	eable ma	aterials separate	ly complete as
	per specifications.MORTH specification No.202.(Including transpo	orting cha	arges,loading and	d unloading for
	lead 5km-Extra)			
	(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	
		Rate	1147.12	Cum
	Maintenance for 4th Year:			
	KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M2	200-26. D	Dismantling Kerb	stone by
3	Manual means and disposal of dismantled materials with all lifts an	d comple	ete as per	
	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			
	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st	eel work	, including T&P	and scaffolding
4	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st wherever necessary, sorting the dismantled material, disposal of	eel work unservice	, including T&P a eable material ar	and scaffolding nd stacking the
4	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st wherever necessary, sorting the dismantled material, disposal of serviceable material with all lifts complete as per specifications.	eel work unservice II. By I	, including T&P a eable material ar Mechanical Mea	and scaffolding nd stacking the ns. A. Cement
4	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st wherever necessary, sorting the dismantled material, disposal of	eel work unservice II. By I	, including T&P a eable material ar Mechanical Mea	and scaffolding nd stacking the ns. A. Cement
4	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st wherever necessary, sorting the dismantled material, disposal of serviceable material with all lifts complete as per specifications.	eel work unservice II. By I	, including T&P a eable material ar Mechanical Mea	and scaffolding nd stacking the ns. A. Cement
4	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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)	eel work unservice II. By I	, including T&P a eable material ar Mechanical Mea 16-17,18.20,Pag	and scaffolding nd stacking the ns. A. Cement
4	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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 Basic rate	eel work unservice II. By I	, including T&P a eable material and Mechanical Mea 16-17,18.20,Pag	and scaffolding nd stacking the ns. A. Cement
4	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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 Basic rate Maintenance- 4th year escalation of 16%	eel work unservice II. By I	, including T&P and a seable material and Mechanical Mea 16-17,18.20,Pag 390 62.4	and scaffolding nd stacking the ns. A. Cement
4	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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 Basic rate	eel work, unservice II. By I /D SOR	including T&P and a seable material and Mechanical Mea 16-17,18.20,Pag 390 62.4 45.24	and scaffolding nd stacking the ns. A. Cement e No.137)
4	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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 Basic rate Maintenance- 4th year escalation of 16%	eel work unservice II. By I	, including T&P and a seable material and Mechanical Mea 16-17,18.20,Pag 390 62.4	and scaffolding nd stacking the ns. A. Cement
4	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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 Basic rate Maintenance- 4th year escalation of 16%	eel work, unservice II. By I /D SOR	including T&P and a seable material and Mechanical Mea 16-17,18.20,Pag 390 62.4 45.24	and scaffolding nd stacking the ns. A. Cement e No.137)
4	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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 Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year:	eel work, unservice II. By I /D SOR	including T&P appearance in the pattern of the patt	and scaffolding nd stacking the ns. A. Cement e No.137) Cum
4	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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 Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRRB M200-12.1. Dismantling of existing structures like culve	eel work, unservice II. By I // D SOR // Rate	including T&P and a seable material and Mechanical Mea 16-17,18.20,Pag 390 62.4 45.24 497.64 ges, retaining w	and scaffolding nd stacking the ns. A. Cement e No.137) Cum valls and other
5	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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 Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year:	eel work unservice II. By I /D SOR Rate	including T&P and a seable material and Mechanical Mea 16-17,18.20,Pag 390 62.4 45.24 497.64 ges, retaining we including T&P and materials are seasons.	and scaffolding nd stacking the ns. A. Cement e No.137) Cum valls and other and scaffolding
	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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 Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRRB M200-12.1. Dismantling of existing structures like culve structure comprising of masonary, cement concrete, woodwork, st wherever necessary, sorting the dismantled material, disposal of	eel work unservice II. By I /D SOR Rate	including T&P and a seable material and Mechanical Mea 16-17,18.20,Pag 390 62.4 45.24 497.64 ges, retaining we including T&P and materials are seasons.	and scaffolding nd stacking the ns. A. Cement e No.137) Cum valls and other and scaffolding
	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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 Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRRB M200-12.1. Dismantling of existing structures like culve structure comprising of masonary, cement concrete, woodwork, structure comprising of masonary cement concrete	eel work unservice II. By I /D SOR Rate	including T&P and a seable material and Mechanical Mea 16-17,18.20,Pag 390 62.4 45.24 497.64 ges, retaining we including T&P and materials are seasons.	and scaffolding nd stacking the ns. A. Cement e No.137) Cum valls and other and scaffolding
	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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 Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRRB M200-12.1. Dismantling of existing structures like culve structure comprising of masonary, cement concrete, woodwork, st wherever necessary, sorting the dismantled material, disposal of serviceable material with all lifts complete as per specifications.	eel work unservice II. By I /D SOR Rate	including T&P and a seable material and Mechanical Mea 16-17,18.20,Pag 390 62.4 45.24 497.64 ges, retaining we including T&P and materials are seasons.	and scaffolding nd stacking the ns. A. Cement e No.137) Cum valls and other and scaffolding
	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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 Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRRB M200-12.1. Dismantling of existing structures like culve structure comprising of masonary, cement concrete, woodwork, st 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	eel work unservice II. By I /D SOR Rate	including T&P and a seable material and Mechanical Mea 16-17,18.20,Pag 390 62.4 45.24 497.64 ges, retaining we including T&P and materials are seasons.	and scaffolding nd stacking the ns. A. Cement e No.137) Cum valls and other and scaffolding
	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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 Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRRB M200-12.1. Dismantling of existing structures like culve structure comprising of masonary, cement concrete, woodwork, st 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 (Page No 137,SI No : 18.23)	eel work unservice II. By I /D SOR Rate	including T&P and a seable material and Mechanical Mea 16-17,18.20,Pag 390 62.4 45.24 497.64 ges, retaining we including T&P and a seable material and material a	and scaffolding nd stacking the ns. A. Cement e No.137) Cum valls and other and scaffolding
	KSRRB M200-13.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, st 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 Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRRB M200-12.1. Dismantling of existing structures like culve structure comprising of masonary, cement concrete, woodwork, st 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 (Page No 137,SI No : 18.23) Basic rate	eel work unservice II. By I /D SOR Rate	including T&P and a seable material and Mechanical Mea 16-17,18.20,Pag 390 62.4 45.24 497.64 ges, retaining we are including T&P and a seable material and 351	and scaffolding nd stacking the ns. A. Cement e No.137) Cum valls and other and scaffolding

			l	
	Maintenance for 4th Year:			
	KSRRB M300-14. Excavation for roadwork in all types of soil	with hud	raulio oveevete	r of 0.0 bucket
	1	•		
	capacity including cutting and loading in tippers,trimming botto			
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, loadi	ng and ui	nloading for lead	d 5km)
	(Page No 143,SI No : 19.14)			
	Basic rate		41	
	Maintenance- 4th year escalation of 16%		6.56	
	Add 10% For area weightage (Mangalore City)		4.76	
	Add 10% For area weightage (Mangalore City)	Rate	52.32	Cum
		Rate	52.32	Culli
	BA-1-4			
	Maintenance for 4th Year:	_		
	KSRB 2-4: Refilling available earth around pipe lines, cables in			
7	compacting each deposited layer by ramming after watering wi		•	•
	including cost of all labour complete as per specifications.(KPWD	16-17,SI I	No.2.11,Pg. No.	6)
	Basic rate		120	
	Maintenance- 4th year escalation of 16%		19.2	
	Add 10% For area weightage (Mangalore City)		13.92	
		Rate	153.12	Cum
	Maintenance for 4th Year:			
	KSRRB 300-Compaction KSRRB 300-58. Compaction of original g	round wit	th maximum of	6 nasses of 8 to
•	10 tonnes power roller including filling in depression occuring durin			
8	HOM of machinery complete as per specifications. MORTH / Chap			
		iei 3.(KF	W D 10-17,31 N	0.19.04,Fg.
	No.149)			
	,			
	Basic rate		6	
	· ·		6 0.96	
	Basic rate			
	Basic rate Maintenance- 4th year escalation of 16%	Rate	0.96	Sqm
	Basic rate Maintenance- 4th year escalation of 16%	Rate	0.96 0.7	Sqm
	Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City)	Rate	0.96 0.7	Sqm
	Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year:		0.96 0.7 7.66	•
	Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRB 4-1.6; Providing and laying in position plain cement conditions.	crete of n	0.96 0.7 7.66 nix M15 Grade	with cement @
	Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRB 4-1.6; Providing and laying in position plain cement concept 240kgs, with 20mm and down size graded granite metal coal	crete of n	0.96 0.7 7.66 nix M15 Grade egates @ 0.69	with cement @
9	Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) 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 coa aggregtes @ 0.459cum, machine mixed, concrete laid in layer	crete of norse aggreers not e	0.96 0.7 7.66 nix M15 Grade egates @ 0.69 exceeding 15 of	with cement @ cum and fine
9	Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRB 4-1.6; Providing and laying in position plain cement conc 240kgs, with 20mm and down size graded granite metal coa aggregtes @ 0.459cum, machine mixed, concrete laid in layer compacted, in foundation, plinth and cills, ncluding cost of all materials.	erete of n rse aggreers not e erials, lab	0.96 0.7 7.66 nix M15 Grade egates @ 0.69 exceeding 15 coour, HOM of m	with cement @ cum and fine cms. thick, wel achinery, curing
9	Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) 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 coa aggregtes @ 0.459cum, machine mixed, concrete laid in layer	erete of n rse aggreers not e erials, lab	0.96 0.7 7.66 nix M15 Grade egates @ 0.69 exceeding 15 coour, HOM of m	with cement @ cum and fine cms. thick, wel achinery, curing
9	Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) 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 mate complete as per specifications. Specification No. KBS 4.1, 4.2. (P.I.)	erete of n rse aggreers not e erials, lab	0.96 0.7 7.66 nix M15 Grade egates @ 0.69 exceeding 15 cour, HOM of moles with the court of the	with cement @ cum and fine cms. thick, wel achinery, curing
9	Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRB 4-1.6; Providing and laying in position plain cement conc 240kgs, with 20mm and down size graded granite metal coa 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. Basic Rate	erete of n rse aggreers not e erials, lab	0.96 0.7 7.66 nix M15 Grade egates @ 0.69 exceeding 15 coour, HOM of m	with cement @ cum and fine cms. thick, wel achinery, curing
9	Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) 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 mate complete as per specifications. Specification No. KBS 4.1, 4.2. (P.I.)	erete of n rse aggreers not e erials, lab	0.96 0.7 7.66 nix M15 Grade egates @ 0.69 exceeding 15 cour, HOM of moles with the court of the	with cement @ cum and fine cms. thick, wel achinery, curing
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9	Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) 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. Basic Rate Maintenance- 4th year escalation of 16%	erete of n rse aggreers not e erials, lab	0.96 0.7 7.66 nix M15 Grade egates @ 0.69 exceeding 15 cour, HOM of moles with the moles of PWD 5900 944	with cement @ cum and fine cms. thick, wel achinery, curing
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	Maintenance for 4th Year:			
11	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	etal coarse -2008 at r edation for	e aggregate @ (machine mixed,c footings, pedas	0.47 cum with oncrete laid in stals, retaining
	buttresses, bed blocks,anchor blocks & plinths etc.,l machinery,curing,complete but excluding cost of reinforcement as (Page No 13,SI No : 4.10)	ncluding	cost of lab	posts, struts our,HOM of
	Basic Rate		6198	
	Maintenance- 4th year escalation of 16%		991.68	
	Add 10% For area weightage (Mangalore City)		718.97	
		Rate	7908.65	Cum
12	Maintenance for 4th Year: 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)	1		
	Basic Rate		263	
	Maintenance- 4th year escalation of 16%		42.08	
			30.51	
	Add 10% For area weightage (Mangalore City)	 _ 		
	Maintenance for 4th Year:	Rate	335.59	Sqm
13		cluding or welding	335.59 wherever require	ed,tying with
13	Maintenance for 4th Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inconstraighting, 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 recomplete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500	cluding or welding	wherever require	ed,tying with
13	Maintenance for 4th 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 (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 Basic Rate	cluding or welding	wherever require plete as per design abour, HOM of management	ed,tying with
13	Maintenance for 4th Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inconstraighting, 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 recomplete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500	cluding or welding	wherever require	ed,tying with
13	Maintenance for 4th Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work incomplete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance- 4th year escalation of 16%	cluding or welding	335.59 wherever required plete as per design abour, HOM of many many many many many many many many	ed,tying with
13	Maintenance for 4th Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work incomplete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance- 4th year escalation of 16%	eluding or welding ssary com materials,la Rate ruction of so preading, ger specific	335.59 wherever require plete as per desi abour, HOM of market 1325.12 8210.71 90317.83 sub-grade with a grading to require ations (including	ed,tying with gn achinary MT pproved ed slope and cost of earth,
	Maintenance for 4th Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inconstraighting, 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 recomplete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of Subgrade in the steel of the second compacted to meet requirement of Table No. 300-2 complete as per watering charges & compaction by vibratory rollercompaction and vibratory rollercompaction by vibratory rollercompaction by vibratory rollercompaction and vibratory rollercompaction by vibratory rollercompaction by vibratory rollercompaction and vibratory rollercompaction by vibratory rollercompaction by vibratory rollercompaction and vibratory rollercompaction by vibratory rollercompaction by vibratory rollercompaction and vibratory rollercompaction by vibratory rollercompaction by vibratory rollercompaction and vibra	eluding or welding ssary com materials,la Rate ruction of so preading, ger specific	335.59 wherever require plete as per designation and produced and produced at the second and practices are second and pr	ed,tying with gn achinary MT pproved ed slope and cost of earth,
	Maintenance for 4th Year: KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work inconstraighting, 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 recomplete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction Gravel/Murrum with all lifts & leads, transporting to site, specimental Gravel/Murrum with all lifts & leads, transporting to site, speciment of Table No. 300-2 complete as perwatering charges & compaction by vibratory rollercompaction and recompaction recompaction by vibratory rollercompaction by vibratory rollercompaction and recompaction recomp	eluding or welding ssary com materials,la Rate ruction of so preading, ger specific	335.59 wherever require plete as per desi abour, HOM of market 1325.12 8210.71 90317.83 sub-grade with a grading to require ations (including	ed,tying with gn achinary MT pproved ed slope and cost of earth,
	Maintenance for 4th 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 (laps, hooks and wastage shall not be measured and paid) cost of rcomplete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction Gravel/Murrum with all lifts & leads, transporting to site, specimental Gravel/Murrum with all lifts & leads, transporting to site, speciment of Table No. 300-2 complete as pewatering charges & compaction by vibratory rollercompaction Basic Rate Maintenance- 4th year escalation of 16% Add 20km lead (17.4 KSRRB M100-4.1-Cost of haulage excluding loading and unloading MORTH-100/Chapter 1-case 1-Surface	Rate ruction of spreading, ger specific bratory rol	70782 11325.12 8210.71 90317.83 sub-grade with a grading to require ations (including ler to 97% of products)	ed,tying with gn achinary MT pproved ed slope and cost of earth,
	Maintenance for 4th 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 (laps, hooks and wastage shall not be measured and paid) cost of romplete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Constimaterial Gravel/Murrum with all lifts & leads, transporting to site, sp. compacted to meet requirement of Table No. 300-2 complete as powatering charges & compaction by vibratory rollercompaction by vib MORTH Specification No. 305 Basic Rate Maintenance- 4th year escalation of 16% 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	Rate ruction of spreading, ger specific bratory rol	wherever require plete as per designations (including ler to 97% of prosessions) 335.59 wherever require plete as per designation and provided with a grading to require ations (including ler to 97% of provided at the provided statement of the provide	ed,tying with gn achinary MT pproved ed slope and cost of earth,
	Maintenance for 4th 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 (laps, hooks and wastage shall not be measured and paid) cost of rcomplete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Constimaterial Gravel/Murrum with all lifts & leads, transporting to site, sp. compacted to meet requirement of Table No. 300-2 complete as powatering charges & compaction by vibratory rollercompaction by vib MORTH Specification No. 305 Basic Rate Maintenance- 4th year escalation of 16% 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	Rate ruction of spreading, ger specific bratory rol	wherever require plete as per desi abour, HOM of management of the plete as per desi abour, HOM of management of the plete as per desi abour, HOM of management of the plete at 1325.12 about 1325.12 about 1325.12 about 1325.13	ed,tying with gn achinary MT pproved ed slope and cost of earth,
	Maintenance for 4th 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 (laps, hooks and wastage shall not be measured and paid) cost of romplete as per specifications. Specification No. KBS4.6.3. do with TMT bars Fe500 Basic Rate Maintenance- 4th year escalation of 16% Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: KSRRB M300-Construction of Subgrade. KSRRB M300-55. Constimaterial Gravel/Murrum with all lifts & leads, transporting to site, sp. compacted to meet requirement of Table No. 300-2 complete as powatering charges & compaction by vibratory rollercompaction by vib MORTH Specification No. 305 Basic Rate Maintenance- 4th year escalation of 16% 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	Rate ruction of spreading, ger specific bratory rol	wherever require plete as per designations (including ler to 97% of prosessions) 335.59 wherever require plete as per designation and provided with a grading to require ations (including ler to 97% of provided at the provided statement of the provide	ed,tying with gn achinary MT pproved ed slope and cost of earth,

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 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) Basic Rate 4048 Maintenance- 4th year escalation of 16% 647.68 Add 10% For area weightage (Mangalore City) 469.57 Rate 5165.25 Cum 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 16 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) Basic Rate 3680 Maintenance- 4th year escalation of 16% 588.8 Add 10% For area weightage (Mangalore City) 426.88 Rate 4695.68 Cum 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, 17 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- 4th year escalation of 16% 922.4 Add 12% For area weightage (Mangalore City) 802.49 7489.89 Rate Cum 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 18 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- 4th year escalation of 16%		18.4	
	Rate	133.4	Rmt

	T			
	O constitute O Maria (constitute o constitute o constitut			
	Operation & Maintenance for 4th Year:			
	KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar	ininte le	a additional desirate	
19	KSRRB M3000-8 Repairs of spalled joints grooves of contraction			
19	joints in concrete pavement using epoxy mortar concrete	complete	e as per speci	ifications.Morti
	specification No.3005.1			
	(Page No 257,SI No : 35.8)			
	Basic Rate		331	
	Maintenance- 4th year escalation of 16%		52.96	
	Add 10% For area weightage (Mangalore City)		38.4	
	3 3 1 3 7/	Rate	422.36	Rmt
	Maintenance for 4th Year:	JI.	1	
	Providing and laying at or near ground level factory made kerb s	stone of N	/I-20 grade ceme	ent concrete i
	position to the required line, level and curvature, jointed with ceme		•	
	including making joints with or without grooves (thickness of joints			
	than 5mm), including making drainage opening wherever requ			
20	Engineer-in-charge (length of finished kerb edging shall be measur		•	01 4110011011
	(Precast C.C. kerb stone shall be approved by Engineer-in-charge)	•	ymone,	
	(1 recast 0.0. Kerb stone shall be approved by Engineer in charge)	,.		
	(RA Attached)			
	(1017 macrica)			
	Deta Amiro de a con Deta acabreia			
	Rate Arrived as per Rate analysis Basic Rate	1	17708.82	
			2833.41	
	Maintenance- 4th year escalation of 16%		2054 22	
	Add 10% For area weightage (Mangalore City)	Dete	2054.22	Cum
	Add 10% For area weightage (Mangalore City)	Rate	2054.22 22596.45	Cum
	•	Rate		Cum
	Add 10% For area weightage (Mangalore City)		22596.45	
21	Add 10% For area weightage (Mangalore City) Maintenance for 4th Year:	the drawi	22596.45 ng,made out of	CC 1:2:4 and
21	Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per t	the drawi	22596.45 ng,made out of	CC 1:2:4 and
21	Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per to Jointed with CM 1:3 and finishing cutting, including cost of	the drawi	22596.45 ng,made out of	CC 1:2:4 and
21	Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: 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., complet (Page No 25, SI No : 5.3)	the drawi	ng,made out of aterials,labour,hir	CC 1:2:4 and
21	Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per t Jointed with CM 1:3 and finishing cutting, including cost of machinery,loading,unloading,lead and lift,transportation etc.,comple (Page No 25,SI No : 5.3) Basic rate	the drawi	ng,made out of aterials,labour,hir	CC 1:2:4 and
21	Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: 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., complet (Page No 25, SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16%	the drawi	ng,made out of aterials,labour,hir 15481.61 2477.06	CC 1:2:4 and
21	Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per t Jointed with CM 1:3 and finishing cutting, including cost of machinery, loading, unloading, lead and lift, transportation etc., comple (Page No 25, SI No : 5.3) Basic rate	the drawi of all ma ete	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04	CC 1:2:4 and re charges o
21	Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: 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., complet (Page No 25, SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16%	the drawi	ng,made out of aterials,labour,hir 15481.61 2477.06	CC 1:2:4 and
21	Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: 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., comple (Page No 25, SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 12% For area weightage	the drawi of all ma ete	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04	CC 1:2:4 and re charges o
21	Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: 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., comple (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 drawi of all ma ete Rate	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71	CC 1:2:4 and re charges of Cum
	Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: 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., comple (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)	the drawi of all ma ete Rate	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir	CC 1:2:4 and re charges of Cum
21	Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: 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., comple (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 concrete water table)	the drawi of all ma ete Rate I gutter) a ost of all	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir	CC 1:2:4 and re charges of Cum
	Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: 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., complet (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., complete the complete table (longitudina comachinery, loading, unloading, lead and lift, transportation etc., complete table (longitudina comachinery, loading, unloading, lead and lift, transportation etc., complete table (longitudina comachinery, loading, unloading, lead and lift, transportation etc., complete table (longitudina comachinery, loading, unloading, lead and lift, transportation etc., complete table (longitudina)	the drawi of all ma ete Rate I gutter) a ost of all	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir	CC 1:2:4 and re charges of Cum
	Add 10% For area weightage (Mangalore City) Maintenance for 4th Year: 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., comple (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 concrete water table)	the drawi of all ma ete Rate I gutter) a ost of all	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir	CC 1:2:4 and re charges of Cum
	Maintenance for 4th Year: 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., comple (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., comple (Page No 25, SI No : 5.3)	the drawi of all ma ete Rate I gutter) a ost of all	ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir materials,labour,	CC 1:2:4 and re charges of Cum
	Maintenance for 4th Year: 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., comple (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., comple (Page No 25, SI No : 5.3) Basic rate	the drawi of all ma ete Rate I gutter) a ost of all	ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir materials,labour,	CC 1:2:4 and re charges of Cum
	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per of Jointed with CM 1:3 and finishing cutting, including cost of machinery, loading, unloading, lead and lift, transportation etc., comple (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., comple (Page No 25, SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16%	the drawi of all ma ete Rate I gutter) a ost of all	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir materials,labour, 15481.61 2477.06	CC 1:2:4 and re charges of Cum
	Maintenance for 4th Year: 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., comple (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., comple (Page No 25, SI No : 5.3) Basic rate	the drawing all materials and the dr	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir materials,labour, 15481.61 2477.06 1795.87	CC 1:2:4 and re charges of Cum
	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per of Jointed with CM 1:3 and finishing cutting, including cost of machinery, loading, unloading, lead and lift, transportation etc., comple (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., comple (Page No 25, SI No : 5.3) Basic rate Maintenance- 4th year escalation of 16%	the drawi of all ma ete Rate I gutter) a ost of all	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir materials,labour, 15481.61 2477.06	CC 1:2:4 and re charges of Cum
	Maintenance for 4th Year: 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., comple (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., comple (Page No 25, SI No: 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage	the drawing all materials and the dr	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir materials,labour, 15481.61 2477.06 1795.87	CC 1:2:4 and re charges of Cum
	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per of Jointed with CM 1:3 and finishing cutting, including cost of machinery, loading, unloading, lead and lift, transportation etc., comple (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., comple (Page No 25, SI No: 5.3) Basic rate Maintenance- 4th year escalation of 16% Add 10% For area weightage	the drawi of all ma ete Rate I gutter) a ost of all i ete Rate	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir materials,labour, 15481.61 2477.06 1795.87 19754.54	Cum Cum Cum Cum
22	Maintenance for 4th Year: 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.,comple (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 comachinery,loading,unloading,lead and lift,transportation etc.,comple (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 ma	the drawi of all ma ete Rate I gutter) a ost of all i ete Rate terials, so	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir materials,labour, 15481.61 2477.06 1795.87 19754.54 caffolding HOM	Cum Cum Cum Cum Cum Cum
	Maintenance for 4th Year: 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.,comple (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 comachinery,loading,unloading,lead and lift,transportation etc.,comple (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 ma with all lead and lifts, labour charges including implementation of	the drawing all materials, so Environm	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir materials,labour, 15481.61 2477.06 1795.87 19754.54 caffolding HOM elental and Social	Cum Cum Cum Cum Cum Cum
22	Maintenance for 4th Year: 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.,comple (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 comachinery,loading,unloading,lead and lift,transportation etc.,comple (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 ma	the drawing all materials, so Environm	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir materials,labour, 15481.61 2477.06 1795.87 19754.54 caffolding HOM elental and Social	Cum Cum Cum Cum Cum Cum
22	Maintenance for 4th Year: 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., comple (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., comple (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 ma with all lead and lifts, labour charges including implementation of as per design, drawing, technical specifications and directions of E	the drawing all materials, so Environm	ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir materials,labour, 15481.61 2477.06 1795.87 19754.54 caffolding HOM dental and Social n-charge.	Cum Cum Cum Cum Cum Cum
22	Maintenance for 4th Year: Providin and fixing pre cast solid concrete Kerb stones as per of Jointed with CM 1:3 and finishing cutting, including cost of machinery, loading, unloading, lead and lift, transportation etc., comple (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., comple (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 ma with all lead and lifts, labour charges including implementation of as per design, drawing, technical specifications and directions of E Basic rate	the drawing all materials, so Environm	22596.45 ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir materials,labour, 15481.61 2477.06 1795.87 19754.54 caffolding HOM elental and Social n-charge.	Cum Cum Cum Cum Cum Cum
22	Maintenance for 4th Year: 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., comple (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., comple (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 ma with all lead and lifts, labour charges including implementation of as per design, drawing, technical specifications and directions of E	the drawing all materials, so Environm	ng,made out of aterials,labour,hir 15481.61 2477.06 2155.04 20113.71 as per the drawir materials,labour, 15481.61 2477.06 1795.87 19754.54 caffolding HOM dental and Social n-charge.	Cum Cum Cum Cum Cum Cum

	Maintenance for 4th Year:		•	
	KSRRB 800-1. Painting two coats after filling the surface with	synthetic ename	I paint in approv	ved shade
24	on new plastered concrete surfaces, with materials, labour con	mplete as per sp	ecifications. MC	DRTH
	Chapter 8			
	(Page No 182,SI No : 24.1)			
	Basic Rate		80	
	Maintenance- 4th year escalation of 16%		12.8	
	Add 12% For area weightage (Mangalore City)		9.28	
		Rate	102.08	Sqm
25	Maintenance for 4th Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame or	n Manhole for ele	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.
	No. 1 of the Control			
	Maintenance for 4th Year:	main and for all the	on CM/D	
26	P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at (Rate analysis attached)	raised footpath	on SWD.	
	(Nate analysis attached)			
	As per Quotation		7470.00	
	Basic Rate		7179.00	
	Basic Rate Discount 30%		-2153.7	
	Basic Rate Discount 30% Sub Total		-2153.7 5025.3	
	Basic Rate Discount 30% Sub Total Fixing Charges @5%		-2153.7 5025.3 502.53	
	Basic Rate Discount 30% Sub Total	Date:	-2153.7 5025.3 502.53 804.05	Na
	Basic Rate Discount 30% Sub Total Fixing Charges @5%	Rate	-2153.7 5025.3 502.53	Nos.
	Basic Rate Discount 30% Sub Total Fixing Charges @5%	Rate	-2153.7 5025.3 502.53 804.05	Nos.
27	Basic Rate 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	Basic Rate 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	Basic Rate 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	Basic Rate 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		-2153.7 5025.3 502.53 804.05 6331.88	Nos.
27	Basic Rate 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	Basic Rate 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	Basic Rate 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	Basic Rate 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 n. 7912.28 -2373.68	Nos.
27	Basic Rate 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	Basic Rate 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%	at level footpath	-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6 553.86 886.18	
27	Basic Rate 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 footpath	-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6 553.86 886.18	
27	Basic Rate 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 footpath	-2153.7 5025.3 502.53 804.05 6331.88 7912.28 -2373.68 5538.6 553.86 886.18 6978.64	Nos.
27	Basic Rate 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	-2153.7 5025.3 502.53 804.05 6331.88 n. 7912.28 -2373.68 5538.6 553.86 886.18 6978.64 alignments included	Nos.
	Basic Rate 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 assing 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	Nos. uding spec
	Basic Rate 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, Item No.7, KUWSDB SOR 2016-17)	Rate to the required assing 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 sliphe Engineer in	Nos. uding spec
	Basic Rate 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, Item No.7, KUWSDB SOR 2016-17) Basic Rate	Rate to the required assing 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 sliphe Engineer in	Nos. uding spec
	Basic Rate 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 assing 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 sliphe Engineer in	Nos. uding spec
	Basic Rate 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, Item No.7, KUWSDB SOR 2016-17) Basic Rate	Rate to the required assing 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 sliphe Engineer in	Nos. uding spec

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 29 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) 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: 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 30 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) Basic Rate 5022 Maintenance- 4th year escalation of 16% 803.52 582.55 Add 12% For area weightage (Mangalore City) Rate 6408.07 Rm 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 31 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) Basic Rate 1471.08 Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item 78 No.50, Pg. No.123) 7.8 Add 12% For area weightage (Mangalore City) Sub Total 1556.88 Maintenance- 4th year escalation of 16% 249.1 Rate 1805.98 Rm 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 32 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) Basic Rate 996.3 Labour Cost for laying and Jointing-KUWSDB, HDPE Pipes, Item 66 No.50, Pg. No.123) Add 12% For area weightage (Mangalore City) 6.6 Sub Total 1068.9 Maintenance- 4th year escalation of 16% 171.02 1239.92 Rate Rm

	Maintenance for 4th Year: Providing and Fixixng Spacers for Power Ducts of size 225 mm,	to he ale	ced at an interval	of 15 moto
33	9 ,	to be pia	ced at an interval	i oi i.s mete
	Spacers shall be made of ABS raw material.			
	(Market rate)	1	1000	
	Basic Rate		1003	
	O&M 4th year escalation of 16%	Data	160.48	NI
		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 interval	of 1.5 meter
34	Spacers shall be made of ABS raw material.	•		
	(Market rate)			
	Basic Rate		1947	
	Maintenance- 4th year escalation of 16%		311.52	
	That it is a second and it is a	Rate	2258.52	Nos.
		110.00		
	Maintenance for 4th Year:			
	Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lu	hricant in	ner laver for ICT	F fibre cabl
	1 ''' -		•	
35	comforming to ASTMF 2160 and /or equivalent indian standar			
55	loading and unloading at both destination and rolling, lowering into	trenches,	laying true to line	and jointing
	pipe etc.Complete.			
	(Market Rate)			
	Basic Rate		561.7	
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		36	
	No.50,Pg.No.123)		30	
	Add 12% For area weightage (Mangalore City)		3.6	
	That 1270 For area weightage (Mangalore Oity)		5.0	
	Sub Total		601.3	
	Sub Total Maintenance- 4th year escalation of 16%		601.3	
	Sub Total Maintenance- 4th year escalation of 16%	Rate	96.21	Rm
		Rate		Rm
	Maintenance- 4th year escalation of 16%	Rate	96.21	Rm
	Maintenance- 4th year escalation of 16% Maintenance for 4th Year:		96.21 697.51	
	Maintenance- 4th year escalation of 16% Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh	ly laid nev	96.21 697.51 v concrete (Concr	ete rate is r
36	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	96.21 697.51 v concrete (Concretely to the require	ete rate is r
36	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	96.21 697.51 v concrete (Concretely to the require	ete rate is r
36	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	96.21 697.51 v concrete (Concretely to the require pattern and antique	ete rate is r
36	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	96.21 697.51 v concrete (Concretely to the require pattern and antique 624.00	ete rate is r
336	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	96.21 697.51 v concrete (Concretely to the require pattern and antique 624.00 99.84	ete rate is r
336	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 nevace accurated stamp	96.21 697.51 v concrete (Concretely to the require pattern and antique 624.00 99.84 72.38	ete rate is red level,sha
36	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	96.21 697.51 v concrete (Concretely to the require pattern and antique 624.00 99.84	ete rate is r
336	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	96.21 697.51 v concrete (Concretely to the require pattern and antique 624.00 99.84 72.38	ete rate is red level,sha
336	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	96.21 697.51 v concrete (Concretely to the require pattern and antique 624.00 99.84 72.38 796.22	ete rate is red level,sha uitting it on t
36	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	96.21 697.51 v concrete (Concretely to the require pattern and antique) 624.00 99.84 72.38 796.22 cement and cou	ete rate is red level,sha uitting it on t
36	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 second state of the second size, shape and colour with a result of the second size, shape and colour with a result of the second size, shape and colour with a result of the second size, shape and colour with a result of the second size, shape and colour with a result of the second size, shape and colour with a result of the second size, shape and colour with a result of the second size.	ly laid new ace accurated stamp Rate , using minimum	96.21 697.51 v concrete (Concretely to the require pattern and antique 624.00 99.84 72.38 796.22 cement and coucompressive strer	ete rate is red level,sha uitting it on t
	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 con	ly laid new ace accurated stamp Rate , using an inimum apacting was a stamp acting was	96.21 697.51 v concrete (Concretely to the require pattern and antique 624.00 99.84 72.38 796.22 cement and couragement and	ete rate is red level,sha uitting it on test same sand having 3 to having 3 to
	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	ly laid new ace accurated stamp Rate Rate ninimum npacting was up in bet	96.21 697.51 v concrete (Concretely to the require pattern and antique 624.00 99.84 72.38 796.22 cement and coucompressive strem with plate vibrator ween joints, final of the formula for t	ete rate is red level,shauitting it on the same sandingth of 281 having 3 to compaction
	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 bet	96.21 697.51 v concrete (Concretely to the require pattern and antique 624.00 99.84 72.38 796.22 cement and coucompressive strem with plate vibrator ween joints, final of the formula for t	ete rate is red level,sha uitting it on the same sand angth of 281 having 3 to compaction
	Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfar 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 mater complete as per specifications.	ly laid new ace accurated stamp Rate Rate ninimum npacting was up in bet	96.21 697.51 v concrete (Concretely to the require pattern and antique 624.00 99.84 72.38 796.22 cement and coucompressive strem with plate vibrator ween joints, final of the formula for t	ete rate is red level,sha uitting it on the same sand angth of 281 having 3 to compaction
	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 bet	96.21 697.51 v concrete (Concretely to the require pattern and antique 624.00 99.84 72.38 796.22 cement and coucompressive strem with plate vibrator ween joints, final of the formula for t	ete rate is red level,sha uitting it on the same sand angth of 281 having 3 to compaction
	Maintenance for 4th Year: Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surfar 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 mater complete as per specifications.	ly laid new ace accurated stamp Rate Rate ninimum npacting was up in bet	96.21 697.51 v concrete (Concretely to the require pattern and antique 624.00 99.84 72.38 796.22 cement and coucompressive strem with plate vibrator ween joints, final of the formula for t	ete rate is red level,sha uitting it on the same sand angth of 281 having 3 to compaction
36	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 regression of sand underneath to come paver surface joints into its final level, including cost of mater 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 bet	96.21 697.51 v concrete (Concretely to the require pattern and antique 624.00 99.84 72.38 796.22 cement and courant courant pattern and courant	ete rate is red level,shauitting it on temperature sand ingth of 281 having 3 to compaction
	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 r per 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 bet	96.21 697.51 v concrete (Concretely to the require pattern and antique) 624.00 99.84 72.38 796.22 cement and cour compressive strem with plate vibrator ween joints, final cour and HOM of 11114	ete rate is red level,shauitting it on the same sandingth of 281 having 3 to compaction

	Maintenance for 4th Year:	l.		
38	KSRRB M500-17. Providing and laying dense graded bituminous specified grading, premixed with VG30 grade bituminous binder all 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, transpoth wheeld complete dompacity	porting the hot of the control of th	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	
	3 3 \ 3 7/	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, alignmer as per M RTH Spe	transporting the nt, rolling with s ORTH specificate ecification No. 5	hot mix to work mooth wheeled, ation clause No. 609 - using40/60
	Danie mate	1	0704	
	Basic rate Maintenance 4th year applation of 160/		8761	
	Maintenance- 4th year escalation of 16%		1401.76 1016.28	
	Add 10% For area weightage (Mangalore City)	Rate	11179.04	Cum
		Rate	11179.04	Culli
40	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 concepts Rate Approved as per EOI by MD MSCL Mangalore,Refer		as 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 mess 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	
		Rate	547.40	Sqm
42	Maintenance for 4th Year: Operation and Maintenance for eToilets Stainless Steel Public Mod BOQ Item No.45.	del as spe		and Other works
	I	1	04000	
	Baisc rate		61200	
	Maintenance- 4th year escalation of 16%		9792	
		Rate		Nos.

	Maintenance for 4th Year:		– .	
43	Providing and fixing of S.S. Bollards(SS304) on footpath as specific	ed and dire	ected by Engine	er -in-charç
43	(NON SOR Item)			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.13		4500.00	
	O&M 4th year escalation of 16%		720	
		Rate	5220	Nos.
		11010	0220	
	Maintenance for 4th Year:	l l		
	Providing and fixing of railing as detail design in MS HOLLOW SEC	CTION and	bars (shop dray	wina 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	
	Ividintendince- 4th year escalation of 1070	Rate	116000	МТ
		Kale	110000	IVI I
	Maintenance for 4th Voor			
	Maintenance for 4th Year:			ب مائیہ م
	Excavation and removal of silt and silt mixed with sand in slussy co			
	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			
	scaffolding HOM of machineries with all lead and lifts, labour charge	jes includin	g implementatio	n of
	Environmental and Social Safeguards & as per design, drawing, te	chnical spe	ecifications and o	directions of
	1			
	Engineer-in-charge.			
		1	170.00	
	Basic Rate		179.00	
		Poto	28.64	Neo
	Basic Rate	Rate		Nos.
	Basic Rate	Rate	28.64	Nos.
	Basic Rate	Rate	28.64	Nos.
46	Basic Rate Maintenance- 4th year escalation of 16%		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 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	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 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	28.64 207.64 207.64 Al 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	28.64 207.64 207.64 Al 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 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	28.64 207.64 207.64 al 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 Debris	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	
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 Baisc 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	
	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 KS	eyond initia	28.64 207.64 207.64 28x10km 25.60 68.00 93.60 9.36 102.96 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	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	
	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	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	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	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	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	

	Linking Pales			
	Lighting Poles Maintenance for 4th Year:			
	Dismantling of pole/ street light standard/ strut embedded in cemer	at concret	•	
48	foundation etc. as required	it concret	E	
	(Delhi analysis of rates E & M 2016, item 12.42, pg 395))			
	· · · · · · · · · · · · · · · · · · ·		938	
	Maintenance- 4th year escalation of 16%			
	Maintenance- 4th year escalation of 16%	Dete	150.08	Non
		Rate	1088.08	Nos.
	Maintenance for 4th Year:			
	Lighting Pole, 7 m			
	Fabrication, suppl and erection of 7 meters long hot dip Galvanised	1 Octobor	al polo with BSE	10025 grado
	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	•	•	
40	in single section and single joint welded as per IS 9595/IS 10178 A			
49	dia, top 70 mm with 3 mm thick, suitable base plate and 4 nos. of		oolts along with t	
	the pole shall be hot dip galvanized in single dipping with not less t			
	153 etc., (excluding foundation) as per drawing appended	nan oo m	icion as per Aor	IVI - A 125 and
	(Ref Electrical SOR SI No. 5.14.5)			
	(Not Electrical Service Service)			
	Danis auto	T I	40400	
	Basic rate		12420	
	Maintenance- 4th year escalation of 16%	Data	1987.2	Maa
	No. 1 de la constant	Rate	14,407.20	Nos.
	Maintenance for 4th Year:			
	Lighting Pole, 4 m	. d O - 4	nal nala with DO	T 1000F avada
	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 leading to be not dip galvanized in single dipping with not less than	•	•	!
	etc., (excluding foundation) as per drawing appended	05 IIIICIO	i as pei As i vi -	A123 and 133
	(Ref Electrical SOR SI No.5.14.2)			
	(Not Electrical Gett Grittele: 14.2)			
	Basic rate		7398	
	Maintenance- 4th year escalation of 16%		1183.68	
	Maintenance 4th year escalation of 1070	Rate	8,581.68	Nos.
	Maintenance for 4th Year:	itato	0,001.00	1400.
	Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for	outdoor li	ıminaries and mo	ounted on
51	Octagonal pole using necessary bolts, nuts, etc. complete	outuoor it		ountou on
01	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:	- 10.0	.,	
	Supplying and fixing of hot dip Galvinized M.S.bracket Suitable for	outdoor li	ıminaries and mo	ounted on
52	Octagonal pole using necessary bolts, nuts, etc. complete			
02	Single Cross arm - 1500 mm			
	(Ref Electrical SOR SI No.5.18.2)			
	Basic rate		2400	
	O&M 4th year escalation of 16%		384	
	Can the year cocardion of 1070	Rate	2,784	Nos.
	Maintenance for 4th Year:	itate	2,704	1103.
	Painting of Existing street light pole after scrapping the old paint ar	nd naintad	with suitable col	our enamel
53	including coping/footing of the pole8mtr and above street light pole		with suitable col	oui enamei
	(Ref Electrical SOR SI No.16.28.3)	U		
	Basic rate	 	620	
	Maintenance- 4th year escalation of 16%		99.2	
	The state of the year obtained of 1070	Rate	719	Nos.
		· · · · · ·	113	1403.

	Oudoor Box and Switch Gear			
	Maintenance for 4th Year:			
54	Supply, installation, testing and commissioning of outdoor junction all required accessories and componenets	box for mou	ınting MCB/0	Contactors with
	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 us type curve, indicator ON/OFF, energy cross-3 with short circuit breas 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	
			<u> </u>	
	LT Cable			
	Levitor about and arresponded as black man IC 4554 Dark 4,4000 9 as	oforming to (GTP of GRO	UP B
56	outer sheathed armoured cable as per IS - 1554 Part 1:1988 & cold 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)	morning to c		0.
56	4 Core x16 Sq.mm PVC Aluminium Conductor,		117	J. 2
56	4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)			
56	4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Maintenance- 4th year escalation of 16%	Rate	117	
56	4 Core x16 Sq.mm PVC Aluminium Conductor, (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 conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC in working voltage up to 1100 V as per IS-694:1990 and conforming 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	Rate flexible copp	117 18.72 135.72 er with low c sheathed su Group A.	Rm onductor itable for
	4 Core x16 Sq.mm PVC Aluminium Conductor, (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 conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC inworking 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	Rate flexible copp	117 18.72 135.72 er with low c sheathed su Group A.	Rm onductor itable for
	4 Core x16 Sq.mm PVC Aluminium Conductor, (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 conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC inworking voltage up to 1100 V as per IS-694:1990 and conforming 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	Rate flexible copp sulation and to GTP of G	117 18.72 135.72 er with low c sheathed su Group A. 81.6 13.06	Rm onductor itable for
	4 Core x16 Sq.mm PVC Aluminium Conductor, (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 conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC inworking 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	Rate flexible copp	117 18.72 135.72 er with low c sheathed su Group A.	Rm onductor itable for
	4 Core x16 Sq.mm PVC Aluminium Conductor, (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 conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC inworking 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	Rate flexible copp sulation and to GTP of G	117 18.72 135.72 er with low c sheathed su Group A. 81.6 13.06 94.66	Rm onductor itable for
57	4 Core x16 Sq.mm PVC Aluminium Conductor, (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 conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC inworking 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 processing to the square of the square scalation of 16% (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate	Rate flexible copp sulation and to GTP of G	117 18.72 135.72 er with low c sheathed su Group A. 81.6 13.06 94.66	Rm onductor itable for
57	4 Core x16 Sq.mm PVC Aluminium Conductor, (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 conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC inworking 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 processing the square of the square scalation of 16% (Ref Electrical SOR SI No.7.21,7.21.6)	Rate flexible copp sulation and to GTP of G Rate	117 18.72 135.72 er with low c sheathed su Group A. 81.6 13.06 94.66 of following	Rm onductor itable for Rm
57	4 Core x16 Sq.mm PVC Aluminium Conductor, (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 conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC inworking 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 processing to the square of the square scalation of 16% (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate	Rate flexible copp sulation and to GTP of G	117 18.72 135.72 er with low c sheathed su Group A. 81.6 13.06 94.66 of following	Rm onductor itable for
57	4 Core x16 Sq.mm PVC Aluminium Conductor, (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 conforming to Table 3 Class 5 of IS:8130-1984 and vargin PVC inworking 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 processing to the square of the square scalation of 16% (Ref Electrical SOR SI No.7.21,7.21.6) Basic rate	Rate flexible copp sulation and to GTP of G Rate point for wire	117 18.72 135.72 er with low c sheathed su Group A. 81.6 13.06 94.66 of following	Rm onductor itable for Rm sizes
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			l l	
	Maintanance for 4th Voors			
	Maintenance for 4th Year:	auda t-	ا ا سمئمس مطاه م	h.,a!
	Chemical Earthing for grounding, conduits, IC cut outs and othere			by using
	copper /SS rod with earth enhancing backfill compound which is			
60	,thermally,conductive,potential,to permissible,limits,superior,fault	,conductive	capacity,non tox	ic,weather
	resistance and capable of achieving ohmic value			
	less than one ohm			
	(Ref Electrical SOR Pg.No.64,SI No.7.23.6)			
		<u> </u>		
	Basic rate		5500	
	Maintenance- 4th year escalation of 16%		880	
		Rate	6380	Kit
	Maintenance for All Mann			
	Maintenance for 4th Year:			
61	Supply and running GI conductor for grounding and (along with c		n conduits system	n of wiring)
٥.	using necessasary suitable size clamps, nails, guttas/spacers et	c-8 SWG		
	(Ref Electrical SOR SI No.7.22.3)			
	Basic rate		19.5	
	Maintenance- 4th year escalation of 16%		3.12	
		Rate	22.62	Rmt
	Maintenance for 4th Year:			
	Supplying and stacking of good earth at site including royalty and	d carriage u	pto 5 k.m. lead co	omplete (earth
62	measured in stacks will be reduced by 20% for payment).	_	-	
	(Non SOR Item)			
	,			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer		4.40.00	
	Sr.No.27		140.00	
	Maintenance- 4th year escalation of 16%		22.4	
			400 40	_
		Rate	162.40	Cum
		Rate	162.40	Cum
	Maintenance for 4th Year:	Rate	162.40	Cum
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63		nanure KSR	RB M300-11. Su	ipply at site o
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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	nanure KSR	RB M300-11. Su	ipply at site o
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		<u> </u>	<u> </u>	
66	Maintenance for 4th Year: Maintenance of lawns or Turfing of slopes (rough grassing) for a procession complete including cost of all materials, scaffolding HOM of materials.			
50	charges including implementation of Environmental and Social Safeguards & as per design, drawing, 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	•		-
67	Maintenance for 4th Year: 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	
	IRRIGATION	l .	•	•
68	Maintenance for 4th 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 x 61rs/hr (365days-90 days of mansoon=275 days/3 days=92		16836	
	days,consider watering at every 3 days)		11000 40	
	Mazdoor = 0.5 days x 258.88 Add 10% For area wightage		11908.48 1190.848	
	Maintenance- 4th year escalation of 16%		4599.12	
	Walliterlance	Rate	34534.45	
		Nate	34334.43	i eai
69	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)			
	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