Project Name: Manglore Smart City Grand Summary for Priority Road DPR 4

Sr. No.	Description	Cost In INR
1	Road and Other Works	37,17,84,723
2	Street Lighting	55,22,966
3	Landscape Work	5,31,380
	Construction Cost Sub Total	37,78,39,069
	GST @ 12% on SOR Base Items -Constrction Cost	3,08,79,529
	GST @ 18% on Market Rate Items -Constrction Cost	1,75,22,007
	Provision for Third Party Damages and Maintenance at 1 st Year(DLP)	28,13,765
	GST @12% on DLP Cost on SOR Base Items	1,84,846
	GST @18% on DLP Cost on Market Base Items	1,19,560
	Maintenance Cost of 2nd,3rd and 4th Year	1,19,69,865
	GST @12% on Maintenanace Cost of SOR Base Item	9,08,101
	GST @18% on Maintenance Cost on Market Base Items	4,08,122
	Escalation and Tender Premium at 10%	3,77,83,907
	Add 3% Contengency	113,35,172
	Miscellaneous and Rounding off	13,057
	Grand Total	49,17,77,000

GENERAL MANAGER TECHNICAL MSCL MANGALURU

EXECUTIVE ENGINEER 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 4

1.0 BOQ of Road and Other Work for Priority Road DPR 4								
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)		3735.00	74.98	2,80,050			
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)		3520.22	1001.90	35,26,908			
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)		3589.63	13.20	47,383			
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	4575.74	429.00	19,62,992			
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)	MT	10.50	2082.30	21,864			
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)		6466.80	42.90	2,77,426			
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)		37126.32	42.90	15,92,719			
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)		636.18	386.10	2,45,629			
9.00	Removing B.S slab of drain and stackin as directed by engineer in charge.(PWD 18-19,SI No : 5.32)	Sqm	7968.00	107.80	8,58,950			

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
10.00	KSRRB M800- Permanent type barricade in construction zone KSRRB M800-44.1. Construction of a permanent type barricade made of steel components, 1.5 m high from road level, fitted with 3 horizontal rails 200 mm wide and 4 m long on 50 x 50 x 5 mm angle iron vertical support, painted with yellow and white strips, 150 mm in width at an angle of 45°, complete as per IRC:SP:55-2014 complete as per specifications . A. With steel components (SI No : 24.45)	Nos.	250.00	4,211.90	10,52,975	
11.00	KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 5.00Km and complete as per specifications. MORTH specification No.301 (SI No : 19.14)		48506.39	56.36	27,33,820	
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	15418.94	132.00	20,35,300	
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)		32923.84	6.60	2,17,297	
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)		1851.60	6,490.00	120,16,867	
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	1400.85	2,382.60	33,37,668	
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	4714.54	2,640.00	1,24,46,386	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
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	9467.65	6,817.80	6,45,48,555	
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	52421.88	289.30	1,51,65,651	
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	747.73	77,860.20	5,82,18,407	
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 rollercompaction by vibratory roller to 97% of proctors density) MORTH Specification No. 305IKPWD 18- 19,19.62,17.1 and 17.4)	Cum	1307.27	620.62	8,11,318	
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	1349.50	4,452.80	60,09,054	
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	171.98	4,048.00	6,96,167	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
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) 		2300.80	6,046.70	139,12,268	
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	2979.61	6,341.50	1,88,95,197	
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)		1,578.02	115.00	1,81,472	
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)		78.90	364.10	,28,728	
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)		231.54	19,479.70	4510,330	
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)		490.00	17,029.77	83,44,587	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
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)		55.76	17,029.77	9,49,651	
30.00	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)		3,479.02	88.00	3,06,154	
31.00	P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting. (Rate analysis attached)	Nos.	658.00	7,911.54	52,05,793	
32.00	P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached)	Nos.	766.00	5,276.57	40,41,849	
33.00	P/F FRP Water gully cover with frame (25T) 600mmx500 mm at level footpath. (Rate analysis attached)	Nos.	66.00	7,912.28	5,22,210	
34.00	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	10.50	7,905.70	83,010	
35.00	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.	37.00	9,125.60	3,37,647	
36.00	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 testi g etc as directed by the Engineer in charge (page No.41, Item No.7, KUWSDB SOR 2016-17)		470.40	301.70	1,41,920	
37.00	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)		784.00	913.00	7,15,792	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
38.00	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)		6,781.00	151.70	10,28,678	
39.00	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	919.00	5,524.20	50,76,740	
40.00	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	26,840.00	1,556.88	4,17,86,659	
41.00	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	13,784.00	1,068.90	1,47,33,718	
42.00	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)		5,092.00	1,003.00	51,07,276	
43.00	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)		4,347.00	1,947.00	84,63,609	
44.00	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)		5,249.40	601.30	31,56,464	
45.00	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	22,214.40	624.00	1,38,61,786	
46.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles.	Rmt	7,883.42	59.00	4,65,122	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
47.00	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)		1,757.78	1,225.40	21,53,984	
48.00	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	202.50	8,012.40	16,22,511	
49.00	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	54.00	9,637.10	5,20,403	
50.00	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.	79.00	3,862.10	3,05,106	
	10 years warranty for Retro Reflective Sheeting from the original sheeting manufactures as per clause 6.9 in IRC: 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. 900MM Equilateral Triangle-TYPE XI (KPWD 18-19,SI No : 24.2.1)					

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
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.	15.00	5,453.80	,81,807	
	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)					
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 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.		43.00	3,429.80	1,47,481	
	10 years warranty for Retro Reflective Sheeting from the original sheeting manufactures as per clause 6.9 in IRC: 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier. 600MM Circle-TYPE XI (KPWD 18-19,SI No : 24.2.3)					

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
53.00	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		32.40	7619.70	2,46,878	
54.00	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.	19.00	4453.90	84,624	
	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.					
55.00	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.	1469.00	317.90	4,66,995	
56.00	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	6601.14	471.90	31,15,077	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
57.00	Providing and Fixing of Bus shelter (on prepared foundation) made of SS 304 frame work with brush steel finish, Galvanised Aluminium powder coated roofing and electronic circuit to control its lighting. The seating shall be made of SS 304 tubular sections for seat and back rest.each unit size of 4500mm x 600mm with a minimum backrest support of 450mm.Bus shelter shall have the Side Display board to have 1100X400mm Electronic display. The electronic display board to be of LED Scrolling type with Oval, 4.3 x 5.1mm dia. Diffused. LED's having Amber colour.Dual bin system should be adopted one for recycle waste & other for dry waste.Each bin shall be with minimum capacity of 70Ltrs.Interactive Information Panel-display equipment with information area of 1400 x 1400 and touch screen LED display panel of area not less than 600-900mm with integrated 8mm toughened glass.Advertisement Area 2 nos of size 4500mm x 1650mm and 2100mm x 2000mm shall be integrated within the design of the Bus Shelter. This shall be backlit type with SS box framing sides and back complete.Provision for installing outdoor WiFi Router. The Foundation slab shall be made in min M25 concrete. The cast iron nuts, bolts shall be rust proof hot deep galvanized powder coated etc.The materials used shall be Nonflammable	Nos.	9.00	1500000.00	1,35,00,000	
58.00	Providing & installing of E- toilet with Super structure of the electronic toilet to have asthetic ambience with inner room size 1.2 x 0.8 x 2.4 (LXWXH)meters and Size of electronic toilet overall size in meters 2.30x1.25x2.80 (LXWXH) Total area 35 Sft. with Built-acess controlled main door and side walls made of SS Grade 304, Toilet floor and closet are to be stainless steel of grade 304.E-Toilet shall have Built-in water tank with minimum 225 Lit capacity and Acess controll using coin validator for entering the unit based on automatic payment collection mechanism exit from the unit should be manual.Automatic lights inside the unit with gloves on opening the door.E-Toilet shall be Automatic flushing system which includes Automatic Pre flush cleaning before use,Automatic closet washing mechanism after use and Automatic platform cleaning mechanism programmed after specific numbers.In addition to these flush switch is to be provided for manual operation.Standard features should include heath faucet,exhaust fan and cloth hanger.	Nos	3.00	5,75,000	17,25,000	
	The E-Toilet shall have Alert to users-different indication on 'ready to use',busy are to be provided in the unit also with Voice guidence in the unit for users. Web enabled support-GPRS based Real time data to be provided from the unit through web for knowing the health status like number of users per day and coins collected.E-toilet shall have Modular and portable design enabling easy assembling and installation at site.Call ceneter and web portal facilities for registering complience and tracking usage,coin collection etc.Status display in LED,Printed instruction stickers are to be provided.For Advertisment purpose space for advertisement dispaly to be povided on the exterior of the unit for income generation and sustainability. Backup power facility like UPS is to be provided to supplement upto 30 Min Base of the unit to be placed on a suitable concrete structure with a ashthetic finish. (Non SOR Item)					
59.00	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	30.14	8576.70	2,58,495	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
60.00	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	90.72	288.20	26,146	
61.00	Providing and fixing 450mm wide X 600mmX 20mm thk.RIVERWASHED BLACK GRANITE CLADDING on surface of seating as directed by architect (Non SOR Item)		50.40	3527.00	1,77,761	
62.00	Supply and Fixing of Traffic signal Straight pole of 6 mtr, inner dia 100 mm from resistant to peeling with base plate size of (LXWXT) 200mm X200mmX6mm painted with redoxide and double coat with synthetic enamel paint of yellow colour assembly G.I., class B, as per technical specification (NON SOR Item)		2.00	18,691	37,382	
63.00	Supply and fixing of Traffic signal Cantilever pole Class B having inner diameter of 100 mm or more with a height of 6m including extension arm assembly having outer diameter of 75mm with arm span of 4 mtr length and base plate of size 300mm X 300mm with thickness of 6 mm welded at the bottom of the pole base as per technical specification & drawings. (NON SOR Item)	Nos.	2.00	52,850	1,05,700	
64.00	Supply and fixing of 300 mm dia – single source – LED retrofit - Red (blow) as per Specification (NON SOR Item)	Nos.	4.00	11,082	44,328	
65.00	Supply and fixing of 300 mm dia – single source – LED retrofit - Amber (blow) as per Specification (NON SOR Item)	Nos.	4.00	11,082	44,328	
66.00	Supply and fixing of 300 mm dia – single source – LED retrofit - Green (arrow/U- Turn) EN-12368 as per Specification (NON SOR Item)	Nos.	4.00	13,973	55,892	
67.00	Supply and fixing of 300 mm dia – single source – LED retrofit - Red (ped. standing) EN-12368 as per Specification (NON SOR Item)	Nos.	4.00	11,082	44,328	
68.00	Supply and fixing of 300 mm dia – single source – LED retrofit - Green (ped.walking) EN-12368 as per Specification (NON SOR Item)	Nos.	4.00	13,973	55,892	
69.00	Supply and fixing of 300 mm dia - No Right Turn/No Left turn/No Straight/No 'U' Turn aspects by using UV stabilized ink on face plate EN-12368 as per Specification (NON SOR Item)	Nos.	4.00	6,196	24,784	
70.00	Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	418.00	4,500	18,81,000	
71.00	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	1.04	100,000	1,04,000	
72.00	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)		105.00	7,500	7,87,500	
73.00	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	33,087.45	90.86	30,06,326	
74.00	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	13,153.88	91.30	12,00,949	
			Total		37,17,84,723	

SOR+ RA Items Cost	25,72,53,950
GST @12%	30870474
Market Rate	9,73,44,486
GST @18%	17522007

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks	
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Executive Engineer MSCL Mangaluru General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 1.1 Measurement Sheet of Road and Other Work for DPR 4

	1.1 Measurement Sheet of Road an						
Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Road and Junction Pavment	and Other	r Works				
	Taking out existing CC interlocking paver blocks from footpath/ central						
	verge, including removal of rubbish etc., disposal of unserviceable material						
1	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)						
	13b-Hampankatta to PVS Circle	Sqm					
	LHS	Sqm					
	Ch.10.0 to Ch.180.0	Sqm	1	170		3.96	673.20
	RHS	Sqm					100.00
	Ch.1000.0 to Ch.1060.0	Sqm	1	60		2.28	136.80
	13a-PVS Circle to Arya samaj Road RHS	Sqm Sqm					
	Ch.0.0 to Ch.540.0	Sqm	1	540.00		2.00	1080.00
	Balmatta Road LHS	oqiii		040.00		2.00	1000.00
	RHS Footpath (Paver Block)						
	Ch. 0.0 to Ch.340.0	Sqm	1	340	1.5		510.00
	Ch.370.0 to Ch.460.0	Sqm	1	90	3.29		296.10
	Ch.470.0 to Ch.530.0	Sqm	1	81	0.86		69.66
	Paver Block on Carriageway						
	Ch.470.0 to Ch.530.0	Sqm	1	81.00	1.55		125.55
	Balmatta Road RHS						<u></u>
	Ch.0.0 to Ch.370.0	Sqm	1	323.00	2.1		678.30
	Ch.465.0 to Ch.530.0	Sqm Sqm	1	65.63	2.52		165.39
	Consider 60mm Paver Block	Sqm Cum		Total Qty.			3735.0
		Sull					224.10
	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						
2	separately complete as per specifications.MORTH specification						
	No.202.(Including transporting charges,loading and unloading for lead 5km						
	Extra)						
	(SI No : 18.47)						
	7b-Hampankatta to milagres Church						
	LHS						
	Ch.120.0 to Ch.140.0	Cum	1	20	0.471	0.28	9.42
	Ch.150.0 to Ch.215.0	Cum	1		0.471	0.28	17.55
	RHS	oum			0.27	0.20	11.00
	Ch.140.0 to Ch.220.0	Cum	1	80	1.175	0.28	94.00
	13a-PVS Circle to Arya Samaj Road						
	LHS						
	Ch.0.0 to Ch.70.0	Cum	1		0.77	0.28	15.09
	Ch.85.0 to Ch.105.0	Cum	1		0.67	0.28	3.75
	Ch.120.0 to Ch.480.0	Cum	1		0.98	0.28	98.78
	Ch.600.0 to Ch.642.0	Cum	1		0.88	0.28	10.35
	Ch.680.0 to Ch.950.0	Cum	1		1.5	0.28	113.40
	Ch.1010.0 to Ch.1080.0	Cum	1	70	1.17	0.28	22.93
	RHS Ch.0.0 to 150.0	Cum	1	150	1.02	0.29	91.06
	Ch.165.0 to Ch.480.0	Cum Cum	1		1.93	0.28	81.06 118.19
	Ch.485.0 to Ch.520.0	Cum	1		0.54	0.28	5.29
	Ch.540.0 to Ch.660.0	Cum	1		0.34	0.28	26.04
	Ch.690.0 to Ch.858.0	Cum	1		2.1	0.28	98.78
	Ch.945.0 to Ch. 1110.0	Cum	1		1.28	0.28	59.14
	12-Bunts Hostel Road						
	LHS						
	Ch.10.0 to Ch.478.0	Cum	1	468	1.83	0.28	239.80
	RHS						
	Ch.10.0 to Ch.440.0	Cum	1		1.74	0.28	209.50
	Ch.440.0 to Ch.480.0	Cum	1	40	5.18	0.28	58.02
	13b-Hampankatta Junction to PVS Circle						
	LHS	6					000 1
	Ch.10.0 to Ch.620.0	Cum	1		1.89	0.28	322.81
	Ch.620.0 to Ch.670.0	Cum	1		0.705	0.28	9.87
	Ch.690.0 to Ch.820.0 Ch.910.0 to ch.970.0	Cum Cum	1		0.95	0.28	34.58 33.26
	Ch.1030.0 to Ch.1110.0	Cum	1		2.34	0.28	52.42
	RHS	Cum	- 1		2.04	0.20	52.42
	Ch.20.0 to Ch.35.0	Cum	1	15	2.8	0.28	11.76
	Ch.80.0 to Ch.300.0	Cum	1		1.89	0.28	116.42
	Ch.300.0 to ch.900.0	Cum	1		1.045	0.28	175.56
	Ch.910.0 to ch.1090.0	Cum	1		1.39	0.28	70.06
	13a-PVS Circle to Arya Samaj Road						
	Ch.0.0 to Ch.680.0 (Consider 5% Pavement Repaire Work)	Cum	0.05	680	14	0.28	133.28
	13b-Hamapankatta to PVS Circle						
	Ch.0.0 to Ch.1120.0 (Consider 5% Pavement Repaire Work)	Cum	0.05	1120	11.6	0.28	181.89
	12-Bunts Hostel Road						
	Ch.0.0 to Ch.478.0 (Consider 5% Pavement Repaire Work)	Cum	0.05		10.4	0.28	69.60
	Hampankatta Junction and Balmatta Road	Cum	1	410	6.35	0.3	781.05
	RCC Pipe Crossing-						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Balmatta Road 6-						
	7b-Hampankatta to Milagres Cross Road-At Hampankatta Side (Existing					0.28	
	BT)	Cum	3	19	1.182		18.86
	7b-Hampankatta to Milagres Cross Road-At Milagres church Side (Existing CC)	Cum	2	19	1.182	0.28	12.58
	7e-Attavar Road-Mother theresa Road to Nandiguda Road	Cum	7	10	1.182	0.28	23.17
	13a-KRR Road-PVS Circle to Arya Samaj Road	Cum	12	20	1.182	0.28	79.43
	13b-KRR Road-PVS Circle to Hampankatta	Cum	12	20	1.182	0.28	79.43
	12-Bunts Hostel Road	Cum Cum	5	20 Total Oty	1.182	0.28	33.10 3520.22
		Culli		Total Qty.			3520.22
3	KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M200-26. Dismantling Kerb stone by Manual means and disposal of dismantled materials with all lifts and complete as per specifications.MORTH Specification No.202. (S.I.No.18.49)						
	Balmatta Road LHS RHS Footpath (Paver Block)						
	Ch. 0.0 to Ch.340.0	Rm	1	340			340.00
	Ch.370.0 to Ch.460.0	Rm	1	90			90.00
	Ch.470.0 to Ch.530.0	Rm	1	81			81.00
	Balmatta Road RHS Ch.0.0 to Ch.370.0	Rm	1	323			323.00
	Ch.465.0 to Ch.530.0	Rm	1	65.63			65.63
	7e-Attavar Road-RHS						
	Ch.150.0 to Ch.320.0 12-Bunts Hostel Road	Rm	1	170			170.00
	Ch.0.0 to Ch.280.0	Rm	1	280			280.00
	13b-Hampankatta to PVS Circle-RHS						
	Ch.0.0 to Ch.1120.0	Rm	2	1120			2240.00
		Rm		Total Qty.			3589.63
	KSRRB M200-13.1. Dismantling of existing structures like culverts,						
4	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)						
	Dismantaling of Existing Concrete Pavement-DLC 7b-Hampankatta to milagres Church						
	LHS						
	Ch.120.0 to Ch.140.0	Cum	1	20	0.471	0.20	1.88
	Ch.150.0 to Ch.215.0 RHS	Cum	1	65	0.27	0.20	3.51
	Ch.140.0 to Ch.220.0	Cum	1	80	1.175	0.20	18.80
	13a-PVS Circle to Arya Samaj Road						
	LHS Ch.0.0 to Ch.70.0	Cum	1	70	0.77	0.20	10.78
	Ch.85.0 to Ch.105.0	Cum	1	20	0.77	0.20	2.68
	Ch.120.0 to Ch.480.0	Cum	1		0.98	0.20	70.56
	Ch.600.0 to Ch.642.0	Cum	1	42	0.88	0.20	7.39
	Ch.680.0 to Ch.950.0 Ch.1010.0 to Ch.1080.0	Cum Cum	1	270 70	1.5 1.17	0.20	81.00 16.38
	RHS	Culli	1	10	1.17	0.20	10.50
	Ch.0.0 to 150.0	Cum	1	150	1.93	0.20	57.90
	Ch.165.0 to Ch.480.0	Cum	1	315	1.34	0.20	84.42
	Ch.485.0 to Ch.520.0 Ch.540.0 to Ch.660.0	Cum Cum	1	35 120	0.54	0.20	3.78 18.60
	Ch.690.0 to Ch.858.0	Cum	1	120	2.1	0.20	70.56
	Ch.945.0 to Ch. 1110.0	Cum	1	165	1.28	0.20	42.24
	12-Bunts Hostel Road						
	LHS Ch.10.0 to Ch.478.0	Cum	1	468	1.83	0.20	171.29
	RHS	Guill		408	1.03	0.20	111.29
	Ch.10.0 to Ch.440.0	Cum	1	430	1.74	0.20	149.64
	Ch.440.0 to Ch.480.0	Cum	1	40	5.18	0.20	41.44
	13b-Hampankatta Junction to PVS Circle LHS						
	Ch.10.0 to Ch.620.0	Cum	1	610	1.89	0.20	230.58
	Ch.620.0 to Ch.670.0	Cum	1	50	0.705	0.20	7.05
	Ch.690.0 to Ch.820.0 Ch.910.0 to ch.970.0	Cum Cum	1	130 60	0.95	0.20	24.70 23.76
	Ch.910.0 to Ch.970.0 Ch.1030.0 to Ch.1110.0	Cum	1	60 80	2.34	0.20	37.44
	RHS						0.00
	Ch.20.0 to Ch.35.0	Cum	1	15	2.8	0.20	8.40
	Ch.80.0 to Ch.300.0	Cum	1	220	1.89	0.20	83.16
	Ch.300.0 to ch.900.0 Ch.910.0 to ch.1090.0	Cum Cum	1	600 180	1.045 1.39	0.20	125.40 50.04
		24.11			1.00	5.20	50.01
	SWD						
	Balmatta Road RHS						

Sr. No.	Description	Unit	No's	L	в	н	Qty.
	Ch.0.0 to Ch.531.0	Cum	1	531.00	2.00	0.10	106.20
	SWD-Wall Ch.0.0 to Ch.531.0	0	1	524.00	0.45	0.90	74.00
	SWD-Slab	Cum	1	531.00	0.15	0.90	71.69
	Ch.0.0 to Ch.531.0	Cum	1	531.00	1.80	0.15	143.37
	7e-Attavar Road-RHS Ch.150.0 to Ch.320.0						
	Base	Cum	1	170.00	1.20	0.15	30.60
	Wall	Cum	2	170.00	0.20	0.70	47.60
	Slab	Cum	1	170.00	1.00	0.15	25.50
	12-Bunts Hostel Road Ch.0.0 to Ch.280.0	Cum Cum					
	Base	Cum	1	280	1.10	0.15	46.20
	Wall	Cum	2	280	0.20	1.00	112.00
	Slab 13b-Hampankatta to PVS Circle-RHS	Cum Cum	1	280	0.90	0.15	37.80
	Ch.0.0 to Ch.1120.0	Cum					
	Base	Cum	1	1120.00	1.00	0.15	168.00
	Wall Slab	Cum Cum	2	1120.00 1120.00	0.20	1.20 0.15	537.60 134.40
	13a-Sturrock Road-LHS and RHS	Cum	1	1120.00	0.00	0.15	134.40
	Ch.0.0 to Ch.1110.0	Cum					
	Base	Cum	2	1110.00	1.00	0.15	333.00
	Wall Slab	Cum Cum	4	1110.00 1110.00	0.20	1.00 0.15	888.00 266.40
	Cross Drain	Cum			0.00	0.10	_00.40
	7e-Attavar Road-Mother theresa Road to Nandiguda Road	Cum					0.00
	Base and Top Slab Wall	Cum Cum	6	10.00	0.50	0.20	6.00 6.00
	13a-KRR Road-PVS Circle to Arya Samaj Road	Guill	0	10.00	0.50	0.20	0.00
	Base and Top Slab	Cum	20	10.00	1.00	0.20	40.00
	Wall	Cum Cum	20	10.00	1.00	0.20	40.00
	13b-KRR Road-PVS Circle to Hampankatta Base and Top Slab	Cum	20	10.00	1.00	0.20	40.00
	Wall	Cum	20	10.00	1.00	0.20	40.00
	12-Bunts Hostel Road	Cum		(0.00			
	Base and Top Slab Wall	Cum Cum	6	10.00 10.00	0.50	0.20	6.00 6.00
		Cum		Total Qty.	0.00	0.20	4575.74
5	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						
5	concrete, wood work, steel work, including T&P and scaffolding wherever						
5	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.		Rm	Kg/Rm	Kg		
5	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)		100	50	Kg 5000		5
5	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 at 13a-Pvs Circle to Arya Samaj Road		100 Nos.	50 Mt/Nos			
5	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)	MT	100	50	5000	Total	5 5.5 10.5
5	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 at 13a-Pvs Circle to Arya Samaj Road	MT	100 Nos.	50 Mt/Nos	5000	Total	5.5
	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 at 13a-Pvs Circle to Arya Samaj Road Bus Shelter 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) 7b-hampankatta to Milagres Cross Road		100 Nos. 5	50 Mt/Nos 1.1	5000		<u>5.5</u> 10.5
	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 at 13a-Pvs Circle to Arya Samaj Road Bus Shelter 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)	MT	100 Nos.	50 Mt/Nos	5000	Total	5.5
	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 at 13a-Pvs Circle to Arya Samaj Road Bus Shelter 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) 7b-hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0 7e-Attavar Road Ch.0.0 to Ch.330.0		100 Nos. 5	50 Mt/Nos 1.1	5000		5.5 10.5
	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 at 13a-Pvs Circle to Arya Samaj Road Bus Shelter 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) 7b-hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0 7e-Attavar Road Ch.0.0 to Ch.330.0	Sqm	100 Nos. 5	50 Mt/Nos 1.1 100	5000	11	5.5 10.5 1100.00
	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 at 13a-Pvs Circle to Arya Samaj Road Bus Shelter 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) 7b-hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0 7e-Attavar Road Ch.0.0 to Ch.330.0 13a-Pvs Circle to Arya Samaj Road RHS	Sqm Sqm	100 Nos. 5	50 Mt/Nos 1.1 100 330	5000	11 8.09	5.5 10.5 1100.00 2669.70
	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 at 13a-Pvs Circle to Arya Samaj Road Bus Shelter 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) 7b-hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0 7e-Attavar Road Ch.0.0 to Ch.330.0	Sqm	100 Nos. 5	50 Mt/Nos 1.1 100	5000	11	5.5 10.5 1100.00
	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 at 13a-Pvs Circle to Arya Samaj Road Bus Shelter 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) 7b-hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0 7e-Attavar Road Ch.0.0 to Ch.330.0 13a-Pvs Circle to Arya Samaj Road RHS Ch.100.0 to Ch.580.0	Sqm Sqm Sqm Sqm	100 Nos. 5	50 Mt/Nos 1.1 100 100 330 480 470	5000	11 8.09	5.5 10.5 11.0 1100.00 2669.70 1771.20 925.90
	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 at 13a-Pvs Circle to Arya Samaj Road Bus Shelter 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) 7b-hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0 7e-Attavar Road Ch.0.0 to Ch.330.0 13a-Pvs Circle to Arya Samaj Road RHS Ch.104.0 to Ch.580.0 LHS Ch.145.0 to Ch.550.0 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	100 Nos. 5 1 1 1 1	50 Mt/Nos 1.1 100 330 480	5000	11 8.09 3.69	5.5 10.5 1100.00 2669.70 1771.20
6	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 at 13a-Pvs Circle to Arya Samaj Road Bus Shelter 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) 7b-hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0 7e-Attavar Road Ch.00. to Ch.330.0 13a-Pvs Circle to Arya Samaj Road RHS Ch.100.0 to Ch.580.0 LHS Ch.100.0 to Ch.580.0 LHS Ch.145.0 to Ch.550.0 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	100 Nos. 5	50 Mt/Nos 1.1 100 330 480 470 Total Qty.	5000	11 8.09 3.69 1.97	5.5 10.5 11.0 1100.00 2669.70 1771.20 925.90 6466.80
6	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 at 13a-Pvs Circle to Arya Samaj Road Bus Shelter 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) 7b-hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0 7e-Attavar Road Ch.0.0 to Ch.330.0 13a-Pvs Circle to Arya Samaj Road RHS Ch.104.0 to Ch.580.0 LHS Ch.145.0 to Ch.550.0 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	100 Nos. 5 1 1 1 1	50 Mt/Nos 1.1 100 100 330 480 470	5000	11 8.09 3.69	5.5 10.5 11.0 1100.00 2669.70 1771.20 925.90
6	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 at 13a-Pvs Circle to Arya Samaj Road Bus Shelter 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) 7b-hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0 7e-Attavar Road Ch.100.0 to Ch.580.0 13a-Pvs Circle to Arya Samaj Road RHS Ch.100.0 to Ch.580.0 LHS Ch.145.0 to Ch.550.0 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 Sqm	100 Nos. 5 1 1 1 1 1 1 1 2 2 2	50 Mt/Nos 1.1 100 330 480 470 Total Qty. 100 330	5000	11 8.09 3.69 1.97 1.97 11 8.09	5.5 10.5 11.00.00 2669.70 17771.20 925.90 6466.80 2200.00 5339.40
6	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 at 13a-Pvs Circle to Arya Samaj Road Bus Shelter 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) 7b-hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0 7e-Attavar Road Ch.0.0 to Ch.330.0 13a-Pvs Circle to Arya Samaj Road RHS Ch.104.0 to Ch.580.0 LHS Ch.145.0 to Ch.550.0 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) 7b-hampankatta to Milagres Cross Road Ch.20.0 to Ch.550.0 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) 7b-hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0 7e-Attavar Road Ch.0.0 to Ch.330.0 Hampankatta Junction and Balmatta Road	Sqm Sqm Sqm Sqm Sqm	100 Nos. 5	50 Mt/Nos 1.1 100 330 480 470 Total Qty. 100	5000	11 8.09 3.69 1.97	5.5 10.5 11.0 2669.70 1771.20 925.90 6466.80 2200.00
6	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 at 13a-Pvs Circle to Arya Samaj Road Bus Shelter 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) 7b-hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0 7e-Attavar Road Ch.100.0 to Ch.580.0 13a-Pvs Circle to Arya Samaj Road RHS Ch.100.0 to Ch.580.0 LHS Ch.145.0 to Ch.550.0 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 Sqm	100 Nos. 5 1 1 1 1 1 1 1 2 2 2	50 Mt/Nos 1.1 100 330 480 470 Total Qty. 100 330	5000	11 8.09 3.69 1.97 1.97 11 8.09	5.5 10.5 11.0.00 2669.70 17771.20 925.90 6466.80 22200.00 5339.40

Sr. No.	Description	Unit	No's	L	в	н	Qty.
	Ch.145.0 to Ch.550.0	Sqm	2	470		1.97	1851.80
	Dismantaling of CC Pavement-GSB 7b-Hampankatta to milagres Church						
	LHS						
	Ch.120.0 to Ch.140.0	Sqm	2	20		0.471	18.84
	Ch.150.0 to Ch.215.0	Sqm	2	65		0.27	35.10
	RHS					4 475	400.00
	Ch.140.0 to Ch.220.0 13a-PVS Circle to Arya Samaj Road	Sqm	2	80		1.175	188.00
	LHS						
	Ch.0.0 to Ch.70.0	Sqm	2	70		0.77	107.80
	Ch.85.0 to Ch.105.0	Sqm	2	20		0.67	26.80
	Ch.120.0 to Ch.480.0	Sqm	2	360		0.98	705.60
	Ch.600.0 to Ch.642.0 Ch.680.0 to Ch.950.0	Sqm Sqm	2	42 270		0.88	73.92 810.00
	Ch.1010.0 to Ch.1080.0	Sqm	2	70		1.17	163.80
	RHS						100.00
	Ch.0.0 to 150.0	Sqm	2	150		1.93	579.00
	Ch.165.0 to Ch.480.0	Sqm	2	315		1.34	844.20
	Ch.485.0 to Ch.520.0	Sqm	2	35		0.54	37.80
	Ch.540.0 to Ch.660.0 Ch.690.0 to Ch.858.0	Sqm	2	120 168		0.775	186.00 705.60
	Ch.945.0 to Ch. 1110.0	Sqm Sqm	2	165		1.28	422.40
	12-Bunts Hostel Road	Oqin		100		1.20	422.40
	LHS						
	Ch.10.0 to Ch.478.0	Sqm	2	468		1.83	1712.88
	RHS						
	Ch.10.0 to Ch.440.0	Sqm	2	430		1.74	1496.40
	Ch.440.0 to Ch.480.0 13b-Hampankatta Junction to PVS Circle	Sqm	2	40		5.18	414.40
	LHS						
	Ch.10.0 to Ch.620.0	Sqm	2	610		1.89	2305.80
	Ch.620.0 to Ch.670.0	Sqm	2	50		0.705	70.50
	Ch.690.0 to Ch.820.0	Sqm	2	130		0.95	247.00
	Ch.910.0 to ch.970.0	Sqm	2	60		1.98	237.60
	Ch.1030.0 to Ch.1110.0	Sqm	2	80		2.34	374.40
	RHS Ch.20.0 to Ch.35.0	Sqm	2	15		2.8	84.00
	Ch.80.0 to Ch.300.0	Sqm	2	220		1.89	831.60
	Ch.300.0 to ch.900.0	Sqm	2	600		1.045	1254.00
	Ch.910.0 to ch.1090.0	Sqm	2	180		1.39	500.40
	13a-Pvs Circle to Arya Samaj Road						
	RHS	-	0.00	400		0.00	0540.40
	Ch.100.0 to Ch.540.0	Sqm Sqm	2.00 0.00	480		3.69 0	3542.40 0.00
	Ch.100.0 to Ch.570.0	Sqm	2.00	470		1.97	1851.80
			2.00				1001100
	RCC Pipe Crossing-	Sqm					
	7b-Hampankatta to Milagres Cross Road-At Hampankatta Side (Existing	Sqm	6	19	1.182		134.75
	BT)	oqiii		10	1.102		101.70
	7b-Hampankatta to Milagres Cross Road-At Milagres church Side (Existing CC)						
		Sqm	4	19	1.182		89.83
	7e-Attavar Road-Mother theresa Road to Nandiguda Road	Sqm	14	10	1.182		165.48
	13a-KRR Road-PVS Circle to Arya Samaj Road	Sqm	24	20	1.182		567.36
	13b-KRR Road-PVS Circle to Hampankatta	Sqm	24		1.182		567.36
	12-Bunts Hostel Road	Sqm Sqm	10		1.182		236.40
		Sqm		Total Qty.			37126.32
	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						
8	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)						
	7e-Attavar Road-LHS						
	Ch.150.0 to Ch.320.0 (Open Drain)						
	Wall	Cum	2	170	0.23	0.3	23.46
	13a-PVS Circle to Arya Samaj Road-LHS-Wall	Cum	2	1110	0.23	0.6	306.36
	13a-PVS Circle to Arya Samaj Road-RHS-Wall	Cum	2	1110	0.23	0.6	306.36
		Cum		Total Qty.			636.18
	Removing B.S slab of drain and stacking.(PWD 16-17,5.32,Page No.32)						
9	וווישער איז						
	13a-PVS Circle to Arya Samaj Road-LHS	Sqm	2	1100	1.2		2640.00
		Sqm	2	1100	1.2		2640.00
	13a-PVS Circle to Arya Samaj Road-RHS						
	13a-PVS Circle to Arya Samaj Road-RHS 13b-Hampankatta to PVS Circle-RHS	Sqm Sqm	2	1120 Total Qty.	1.2		2688.00 7968.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
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 500m length at 4 locations work will be in progress	Rm	4	250.00			1000.00
						Total	1000.00
	No. of Barricade = Length of Road / Length of one barricade (4.0m)					Length	
		Nos.		Total Qty.			250.00
11	KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 5.00Km and complete as per specifications. MORTH specification No.301 (SI No : 19.14)						
	Pavement						
	7b-Hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0	Cum	1	100	12.9	0.40	516.00
	Road towards Wenlock Hospital	Cum	1	20	12.9		100.00
	7e-Milagres Nandigidda Road						
	Ch.0.00 to Ch.330.0	Cum	1	330	5	0.40	660.00
	13a-PVS Circle to Arya Samaj Road RHS						
	Ch.100.0 to Ch.540.0	Cum	1	480	3.69	0.40	708.48
	LHS	0	1	470	4.07	0.40	270.20
	Ch.100.0 to Ch.570.0 Balmatta Road	Cum	I	470	1.97	0.40	370.36
	LHS						
	Ch.0.0 to Ch.40.0	Cum	1	44.86	3.63	0.15	24.43
	LHS Ch.60.0 to ch.320.0	Cum	1	244	2.7	0.15	98.82
	LHS	oum		211	2.1	0.10	00.02
	Ch.500.0 to ch.531.0	Cum	1	37.7	0.71	0.15	4.02
	Footpath Balmatta Road-LHS						
	Ch.0.0 to Ch.90.0	Cum	1.0	79.0	2.2	0.38	66.04
	Ch. 90.0 to Ch.190.00	Cum	1.0	100.0	4.4	0.38	168.72
	Landscape Deduction Compound Wall Side-Ch.100 to Ch.185.0	Cum Cum	-1.0 1.0	81.7 85.0	<u>1.0</u> 2.4	0.38	-31.36 77.07
	Ch.190 to Ch.340	Cum	1.0	150.0	2.6	0.38	149.72
	Ch. 360 to Ch.470	Cum	1.0	151.0	2.2	0.38	126.24
	Ch.470.0 to Ch.530.0	Cum	1.0	80.0	2.2	0.38	66.88
	Balmatta Road-RHS						
	Ch.0.0 to Ch.130	Cum	1.0	130.0	2.7	0.38	130.91
	Ch.135.0 to Ch.205.0 Ch.200 to Ch.360.0	Cum Cum	1.0 1.0	70.0	2.3	0.38	<u>62.24</u> 201.86
	Ch.360.0 to Ch.530.0	Cum	1.0	170.0	3.3	0.38	210.60
	Road-7b-Hampankatta to Milagres 1st Cross Lane						
	LHS	0	1.00	000.00	0.54	0.45	70.00
	Ch.20.00 to Ch.220.0 RHS	Cum	1.00	200.00	2.54	0.15	76.20
	Ch.20.00 to Ch.50.0	Cum	1.00	30.00	5.37	0.15	24.15
	Ch.50.0 to Ch.90.0	0	1.00	440.00	0.50	0.45	40.00
	Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road	Cum	1.00	110.00	2.56	0.15	42.30
	LHS						
	Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.330.00	Cum	1.00	20.00	4.35	0.15	13.04 100.48
	RHS	Cum	1.00	175.00	3.83	0.15	100.48
	Ch.170.00 to Ch.330.00	Cum	1.00	160.00	2.68	0.15	64.28
	13a-PVS Circle to Arya Samaj Junction						
	13a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.0.0 to Ch.60.0	Cum	1.00	60.00	2.37	0.15	21.30
	13a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.0.0 to Ch.60.0 Ch.62.00 to Ch.128.0	Cum	1.00	66.00	2.08	0.15	20.55
	13a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.0.0 to Ch.60.0					0.15 0.15	
	13a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.0.0 to Ch.60.0 Ch.62.00 to Ch.128.0 Ch.132.0 to Ch.280.0 Ch.285.0 to Ch.390.0 Ch.395.0 to Ch.455.0	Cum Cum Cum Cum	1.00 1.00 1.00 1.00	66.00 148.00 105.00 60.00	2.08 2.26 2.21 1.42	0.15 0.15 0.15 0.15	20.55 50.25 34.80 12.75
	13a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.0.0 to Ch.60.0 Ch.62.00 to Ch.128.0 Ch.132.0 to Ch.280.0 Ch.285.0 to Ch.390.0 Ch.395.0 to Ch.455.0 Ch.460.0 to ch.545.0	Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00	66.00 148.00 105.00 60.00 85.00	2.08 2.26 2.21 1.42 2.39	0.15 0.15 0.15 0.15 0.15 0.15	20.55 50.25 34.80 12.75 30.45
	13a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.0.0 to Ch.60.0 Ch.62.00 to Ch.128.0 Ch.132.0 to Ch.280.0 Ch.285.0 to Ch.390.0 Ch.395.0 to Ch.455.0 Ch.460.0 to ch.545.0 Ch.580.0 to Ch.640.0	Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00 1.00	66.00 148.00 105.00 60.00 85.00 60.00	2.08 2.26 2.21 1.42 2.39 3.20	0.15 0.15 0.15 0.15 0.15 0.15	20.55 50.25 34.80 12.75 30.45 28.80
	13a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.0.0 to Ch.60.0 Ch.62.00 to Ch.128.0 Ch.132.0 to Ch.280.0 Ch.285.0 to Ch.390.0 Ch.395.0 to Ch.455.0 Ch.580.0 to Ch.640.0 Ch.640.0 to Ch.640.0 Ch.640.0 to Ch.860.0	Cum Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	66.00 148.00 105.00 60.00 85.00 60.00 160.00 55.00	2.08 2.26 2.21 1.42 2.39 3.20 2.06 2.36	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	20.55 50.25 34.80 12.75 30.45 28.80 49.50 19.50
	13a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.0.0 to Ch.60.0 Ch.62.00 to Ch.128.0 Ch.132.0 to Ch.280.0 Ch.285.0 to Ch.390.0 Ch.395.0 to Ch.455.0 Ch.460.0 to ch.545.0 Ch.640.0 to Ch.640.0 Ch.640.0 to Ch.640.0 Ch.805.0 to Ch.800.0 Ch.805.0 to Ch.800.0 Ch.806.0 to Ch.920.0	Cum Cum Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	66.00 148.00 105.00 60.00 85.00 60.00 160.00 55.00 60.00	2.08 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.68	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	20.55 50.25 34.80 12.75 28.80 49.50 19.50 24.15
	13a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.0.0 to Ch.60.0 Ch.62.00 to Ch.128.0 Ch.132.0 to Ch.280.0 Ch.285.0 to Ch.390.0 Ch.395.0 to Ch.455.0 Ch.460.0 to Ch.640.0 Ch.640.0 to Ch.640.0 Ch.800.0 to Ch.640.0 Ch.800.0 to Ch.800.0 Ch.800.0 to Ch.800.0 Ch.800.0 to Ch.920.0 Ch.925.0 to ch.960.0	Cum Cum Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	66.00 148.00 105.00 60.00 60.00 160.00 55.00 60.00 35.00	2.08 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.68 2.86	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	20.55 50.25 34.80 12.75 28.80 49.50 19.50 24.15 15.00
	13a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.0.0 to Ch.60.0 Ch.62.00 to Ch.128.0 Ch.132.0 to Ch.280.0 Ch.285.0 to Ch.390.0 Ch.395.0 to Ch.455.0 Ch.460.0 to ch.545.0 Ch.640.0 to Ch.640.0 Ch.640.0 to Ch.640.0 Ch.805.0 to Ch.800.0 Ch.806.0 to Ch.920.0	Cum Cum Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	66.00 148.00 105.00 60.00 85.00 60.00 160.00 55.00 60.00	2.08 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.68	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	20.55 50.25 34.80 12.75 30.45 28.80 49.50 19.50 24.15

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Ch.60.00 to Ch.130.0	Cum	1.00	70.00	1.80	0.15	18.90
	Ch.130.0 to Ch.200.0	Cum	1.00	70.00	2.66	0.15	27.90
	Ch.235.0 to Ch.270.0 Ch.490.0 to Ch.540.0	Cum Cum	1.00	35.00 50.00	1.03	0.15	5.40 7.20
	Ch.650.0 to Ch.800.0	Cum	1.00	150.00	2.57	0.15	57.90
	Ch.925.00 to Ch.950.0	Cum	1.00	25.00	1.88	0.15	7.05
	Ch.960.0 to Ch.1050.0	Cum	1.00	90.00	6.23	0.15	84.15
	RHS	- Cum		00.00	0.20	0.10	01110
	Ch.0.0 to Ch.320.0	Cum	1.00	320.00	2.28	0.15	109.20
	Ch.330.0 to Ch.510.0	Cum	1.00	180.00	2.06	0.15	55.50
	Ch.510.0 to Ch.538.0	Cum	1.00	28.00	2.07	0.15	8.70
	Ch.540.0 to Ch.578.0	Cum	1.00	38.00	1.74	0.15	9.90
	Ch.580.0 to Ch.660.0	Cum	1.00	80.00	3.21	0.15	38.55
	Ch.680.0 to Ch.750.0	Cum	1.00	70.00	3.53	0.15	37.05
	Ch.750.0 to Ch.1020.0	Cum	1.00	270.00	1.60	0.15	64.95
	Ch.1025.0 to Ch.1060.0	Cum	1.00	35.00	1.09	0.15	5.70
	Ch.1070.0 to Ch.1110.0	Cum	1.00	40.00	1.85	0.15	11.10
	RHS-Compound Side Paver	0	1.00	210.00	1.00	0.45	<u> </u>
	Ch.0.0 to Ch.210.0 Ch.230.0 to Ch.290.0	Cum Cum	1.00	60.00	1.92 0.63	0.15	60.60 5.70
	Ch.325.0 to Ch.390.0	Cum	1.00	65.00	1.58	0.15	15.45
	Ch.470.0 to Ch.510.0	Cum	1.00	40.00	4.25	0.15	25.50
	Ch.515.0 to Ch.535.0	Cum	1.00	20.00	2.40	0.15	7.20
	CH.540.0 to Ch.575.0	Cum	1.00	35.00	3.23	0.15	16.95
	Ch.830.0 to Ch.970.0	Cum	1.00	140.00	7.20	0.15	151.20
	13b-Hampankatta to PVS Circle						
	LHS						
	Ch.10.0 to Ch.180.0	Cum	1.00	170.00	2.10	0.15	53.55
	Ch.255.0 to Ch.345.0	Cum	1.00	90.00	2.62	0.15	35.40
	Ch.350.0 to Ch.440.0	Cum	1.00	90.00	2.30	0.15	31.05
	Ch.590.0 to Ch.680.0	Cum	1.00	90.00	2.24	0.15	30.30
	Ch.680.0 to Ch.845.0	Cum	1.00	165.00	2.13	0.15	52.65
	Ch.840.0 to Ch.880.0	Cum	1.00	40.00	4.58	0.15	27.45
	Ch.880.0 to Ch.900.0	Cum	1.00	20.00	8.25	0.15	24.75
	Ch.900.0 to Ch.965.0	Cum	1.00	65.00	2.42	0.15	23.55
	Ch.965.0 to Ch.1110.0 Ch.1110.0 to Ch.1120.0	Cum Cum	1.00	145.00 10.00	2.18	0.15	47.40
	Compound Wallside Paver Block	Cum	1.00	10.00	8.13	0.15	12.20
	Ch.70.0 to Ch.180.0	Cum	1.00	110.00	2.96	0.15	48.90
	Ch.255.0 to Ch.340.0	Cum	1.00	85.00	1.89	0.15	24.15
	Ch.355.0 to Ch.410.0	Cum	1.00	55.00	2.82	0.15	23.25
	Ch.590.0 to Ch.680.0	Cum	1.00	90.00	4.15	0.15	55.96
	Ch.680.0 to Ch.730.0	Cum	1.00	50.00	1.32	0.15	9.90
	Ch.820.0 to Ch.840.0	Cum	1.00	20.00	3.75	0.15	11.25
	Ch.840.0 to Ch.880.0	Cum	1.00	40.00	3.83	0.15	22.95
	Ch.880.0 to Ch.900.0	Cum	1.00	20.00	8.25	0.15	24.75
	Ch.900.0 to Ch.935.0	Cum	1.00	35.00	2.91	0.15	15.30
	Ch.900.0 to Ch.930.0	Cum	1.00	30.00	3.40	0.15	15.30
	Ch.970.0 to Ch.1040.0	Cum	1.00	70.00	7.20	0.15	75.60
	Ch.1060 to Ch.1110.0	Cum	1.00	50.00	2.90	0.15	21.75
	RHS Ch.10.0 to Ch.140.0	0	1.00	400.00	4.40	0.45	07.00
	Ch.150.0 to Ch.510.0	Cum Cum	1.00	130.00 360.00	1.40	0.15	27.26
	Ch.515.0 to Ch.630.0	Cum	1.00	115.00	2.11	0.15	43.80
	Ch.630.0 to Ch.1090.0	Cum	1.00	460.00	1.83	0.15	126.30
	Compound Wallside Paver Block	Cum	1.00	400.00	1.00	0.15	120.50
	Ch.160.0 to Ch.270.0	Cum	1.00	110.00	0.72	0.15	11.85
	Ch.270.0 to Ch.475.0	Cum	1.00	205.00	2.32	0.15	71.40
	Ch.480.0 to Ch.505.0	Cum	1.00	25.00	0.84	0.15	3.15
	Ch.515.0 to Ch.525.0	Cum	1.00	10.00	0.80	0.15	1.20
	Ch.590.0 to Ch.630.0	Cum	1.00	40.00	3.20	0.15	19.20
	12-Bunts Hostel Road						
	LHS						
	Ch.10.0 to Ch.118.00	Cum	1.00	108.00	3.78	0.15	61.24
	Ch.200.0 to Ch.440.0	Cum	1.00	240.00	2.45	0.15	88.05
	Ch.450.0 to Ch.478.0	Cum	1.00	28.00	3.54	0.15	14.85
	RHS	6		455.55		<u> </u>	70.00
	Ch.10.0 to Ch.165.0	Cum	1.00	155.00	3.41	0.15	79.28
	Ch.300.0 to Ch.470.0	Cum	1.00	170.00	3.78	0.15	96.39
	Electrical Trench						
	7b-Hampankatta to Milagres Cross Road						
	RHS	Cum	1	220	1.1	1.00	242.00
	LHS	Cum	1	220	1.1	1.00	242.00
	7e-Attavar Road		· · · ·				
	RHS	Cum	1	330	1.1	1.00	363.00
	LHS	Cum	1	330	1.1	1.00	363.00
	13a-PVS Circle to Arya Samaj Junction						
	RHS	Cum	1	1110	1.1	2.00	2442.00
	LHS	Cum	1	1110	1.1	2.00	2442.00
	13b-Hampankatta to PVS Circle	-					1.0
	RHS	Cum	1	1120	1.1	1.00	1232.00
	LHS	Cum	1	1120	1.1	1.00	1232.00
	12-Bunts Hostel Road RHS	Cum				4 00	F00 00
	KU2	Cum	1	480	1.1	1.00	528.00
	LHS	Cum	1	480	1.1	1.00	528.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	SWD Balmatta Road						
	Foundation						
	RHS-D12 RHS-D12A	Cum Cum	1	381 100	1.7 2	0.66	427.48
	LHS-D11	Cum	1	481	1.8	1.63	1411.25
	Road 13a			Sides	2.00		
	Node-CO-137					4.57	1000.10
	Base Node-CO-176	Cum	2	97	1.8	1.57	1096.49
	Base Node-CO-143	Cum	2	49.2	2.3	2.63	1190.44
	Base	Cum	2	69	2.1	0.35	202.86
	Node-CO-144 Base	Cum	2	42.3	1.76	0.97	288.86
	Node-CO-145						
	Base Node-CO-162	Cum	2	71.1	1.6	0.86	391.33
	Base	Cum	2	114.4	1.5	1.47	1009.01
	Node-CO-138 Base	Cum	2	54.8	1.3	1.06	302.06
	Node-CO-141 Base	Cum	2	37.7	1.3	0.99	194.08
	Node-CO-139						
	Base Node-CO-146	Cum	2	46.3	1.3	1.08	260.02
	Base	Cum	2	105.9	1.3	0.92	506.63
	Node-CO-147 Base	Cum	2	69.1	1.3	1.07	384.47
	Node-CO-148						
	Base Node-CO-149	Cum	2	117.7	1.5	1.35	953.37
	Base	Cum	2	83.7	1.5	1.7	853.74
	Node-CO-140Base	Cum	2	64.8	1.3	1.03	347.07
	Node-CO-150 Base	Cum	2	26.1	1.5	1.94	303.80
	Node-CO-151						
	Base	Cum	2	32	1.5	2.09	401.28
	Road 13b						
	Node-CO-132 Base	Cum	2	175.7	2.1	1.735	1280.33
	Node-CO-125 Base	Cum	2	74.3	2	1.27	377.44
	Node-CO-152						
	Base	Cum	2	93.8	2	1.245	467.12
	Base	Cum	2	86.4	2	0.97	335.23
	Node-CO-134 Base	Cum	2	81.4	2.1	1.38	471.79
	Node-CO-133						
	Base Node-CO-131	Cum	2	71.9	2.1	1.58	477.13
	Base Node-CO-160	Cum	2	94.5	1.7	1.75	562.28
	Base	Cum	2	36.5	1.7	2.34	290.39
	Node-CO-128 Base	Cum	2	121.4	1.7	2.61	1077.30
	Node-CO-178						
	Base Node-CO-154	Cum	2	57.3	1.6	1.05	192.53
	Base	Cum	2	52.8	2	2.84	599.81
	Node-CO-130Base	Cum	2	64	1.8	1.99	458.50
	Node-CO-126 Base	Cum	2	81.8	2	1.32	431.90
		Culli	2	01.0	2	1.52	431.30
	Road 12 Node-CO-179						
	Base	Cum	2	56.7	1.7	1.465	282.42
	Node-CO-181 Base	Cum	2	301.2	1.5	1.96	1771.06
	Node-CO-180		2				
	Base	Cum		114.7	1.5	1.495	514.43
	Road 7e						
	Node-CO-61						
	Base Node-CO-63	Cum	1	15	1.7	1.005	25.63
	Base	Cum	1	43	1.4	1.045	62.91
	Node-CO-62 Base	Cum	1	57.8	1.4	1.04	84.16
	Node-CO-60		· · ·	00			

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Node-CO-59 Base	Cum	1	64.3	1.4	0.96	86.42
	Node-CO-52	<u>^</u>		40.4	4.5	4.50	100.05
	Base Node-CO-54	Cum	1	43.1	1.5	1.56	100.85
	Base	Cum	1	72.6	1.7	1.75	215.99
	Node-CO-53 Base	Cum	1	50.2	1.4	1.13	79.42
	Node-CO-58						
	Base	Cum	1	132.1	1.4	0.905	167.37
	Road 7b						
	Node-CO-29 Base	0	2	150.0	4.7	2.25	4705 70
	Node-CO-87	Cum	2	159.8	1.7	3.25	1765.79
	Base	Cum	2	95.4	1.7	3.25	1054.17
	RCC Pipe Crossing- 7b-Hampankatta to Milagres Cross Road-At Hampankatta Side (Existing	Cum					0.00
	BT)	Cum	3	19	1.182	0.5	33.69
	7b-Hampankatta to Milagres Cross Road-At Milagres church Side (Existing CC)	Cum	2	19	1.182	0.5	22.46
	7e-Attavar Road-Mother theresa Road to Nandiguda Road	Cum	7		1.182	0.5	41.37
	13a-KRR Road-PVS Circle to Arya Samaj Road	Cum Cum	12 12	20 20	1.182 1.182	0.5 0.5	<u>141.84</u> 141.84
	13b-KRR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road	Cum	5		1.182	0.5	59.10
	Electrical Pipe Laying						0.00
	Balmatta Road Electrical Chamber	Cum Cum	1 292		0.9	1.8 2.4	1811.16 5550.34
		Cum	202	Total Qty.	£	2 . 7	48506.39
12	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.						
	Total Excavation for Electrical Duct	Cum					9614.00
	Pipe Volume-Dia 200mm 7b-Hampankatta to Milagres Cross Road	Cum Cum	1	Length	C/s Area		-41.45
	76-Attavar Road-Mother theresa Road to Nandiguda Road	Cum	-1 -1		0.0314		-41.45
	13a-KRR Road-PVS Circle to Arya Samaj Road	Cum	-1	15540	0.0314		-487.96
	13b-KRR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road	Cum Cum	-1 -1		0.0314		<u>-175.84</u> -45.22
	Pipe Volume-Dia 160mm	Cum	-1	1440	0.0314		-40.22
	7b-Hampankatta to Milagres Cross Road	Cum	-1 -1				-17.68
	7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road	Cum Cum	-1				-26.53 -133.84
	13b-KRR Road-PVS Circle to Hampankatta	Cum	-1	4480	0.020096		-90.03
	12-Bunts Hostel Road Electrical Concrete	Cum Cum	-1	1440	0.020096		-28.94
	Elctrical Chamber Volume	Cum	-292	2	0.9		-525.60
	Total Execution for SWD						21997.59
	Total Excavation for SWD Electrical Chamber	Cum					5550.34
	Concrete Volume of SWD	Cum	-1				-8166.10
	PCC Volume of SWD GSB Volume of SWD	Cum Cum	-1 -1				-1678.24 -1132.62
		Cum					1102.02
	Void Area of SWD Road 13a	Cum					
	Node-CO-137						
	Base Node-CO-176	Cum	-2	97	0.9	1.32	-460.94
	Base	Cum	-2	49.2	1.4	2.38	-655.74
	Node-CO-143	0			1.0	4.00	E40 70
	Base Node-CO-144	Cum	-2	69	1.2	1.66	-549.79
	Base	Cum	-2	42.3	1	0.72	-121.82
	Node-CO-145 Base	Cum	-2	71.1	0.7	0.61	-121.44
	Node-CO-162						
	Base Node-CO-138	Cum	-2	114.4	0.6	1.22	-334.96
	Base	Cum	-2	54.8	0.4	0.81	-71.02
	Node-CO-141	Cum	-2	37.7	0.4	0.74	-44.64
	Base Node-CO-139	Cum	-2	31.1	0.4	0.74	-44.04
	Base	Cum	-2	46.3	0.4	0.83	-61.49
	Node-CO-146 Base	Cum	-2	105.9	0.4	0.67	-113.52
	Node-CO-147						
	Base	Cum	-2	69.1	0.4	0.82	-90.66
	Node-CO-148 Base	Cum	-2	117.7	0.6	1.1	-310.73
	Dase				2.5		
	Node-CO-149 Base	Cum	-2	83.7	0.6	1.45	-291.28

Sr. No.	Description	Unit	No's	L	в	н	Qty.
	Base	Cum	-2	64.8	0.4	0.78	-80.87
	Node-CO-150 Base	Cum	-2	26.1	0.6	1.69	-105.86
	Node-CO-151 Base	Cum	-2	32	0.6	1.84	-141.31
		-					
	Road 13b Node-CO-132						
	Base	Cum	-2	175.7	1.2	1.485	-626.19
	Base	Cum	-2	74.3	1.1	1.02	-166.73
	Node-CO-152 Base	Cum	-2	93.8	1.1	0.995	-205.33
	Node-CO-135 Base	Cum	-2	86.4	1.1	0.72	-136.86
	Node-CO-134 Base	Cum	-2	81.4	1.2	1.13	-220.76
	Node-CO-133						
	Base Node-CO-131	Cum	-2	71.9	1.2	1.33	-229.50
	Base	Cum	-2	94.5	0.8	1.5	-226.80
	Node-CO-160 Base	Cum	-2	36.5	0.8	2.08	-121.47
	Node-CO-128 Base	Cum	-2	121.4	0.8	2.36	-458.41
	Node-CO-178						
	Base	Cum	-2	57.3	0.7	0.8	-64.18
	Base Node-CO-130	Cum	-2	52.8	1.1	2.59	-300.85
	Base	Cum	-2	64	0.9	1.74	-200.45
	Node-CO-126 Base	Cum	-2	81.8	1.1	1.07	-192.56
	Road 12						
	Node-CO-179						
	Base Node-CO-181	Cum	-2	56.7	0.8	1.215	-110.22
	Base Node-CO-180	Cum	-2	301.2	0.6	1.71	-618.06
	Base	Cum	-2	114.7	0.6	1.245	-171.36
	Road 7e						
	Node-CO-61 Base	Cum	-1	15	0.8	0.755	-9.06
	Node-CO-63						
	Base Node-CO-62	Cum	-1	43	0.5	0.795	-17.09
	Base Node-CO-60	Cum	-1	57.8	0.5	0.79	-22.83
	Base	Cum	-1	58.7	0.5	0.72	-21.13
	Node-CO-59 Base	Cum	-1	64.3	0.5	0.71	-22.83
	Node-CO-52 Base	Cum	-1	43.1	0.6	1.31	-33.88
	Node-CO-54						
	Base Node-CO-53	Cum	-1	72.6	0.8	1.5	-87.12
	Base	Cum	-1	50.2	0.5	0.88	-22.09
	Node-CO-58 Base	Cum	-1	132.1	0.5	0.655	-43.26
	Road 7b						
	Node-CO-29 Base	Cum	-2	159.8	0.8	3	-767.04
	Node-CO-87						
	Base	Cum Cum	-2	95.4 Total Qty.	0.8	3	-457.92 15418.94
	KEDDE 200 Composition KEDDE 200 50 Composition of existing the						
13	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						
	7b-Hampankatta to Milagres Cross Road	C		400.0	40.0		1000.00
	Ch.20.0 to Ch.120.0 Road towards Wenlock Hospital	Sqm Sqm	1	100.0 20.0	12.9 12.5		1290.00 250.00
	7e-Milagres Nandigidda Road Ch.0.00 to Ch.330.0	Sqm	1	330.0	5.0		1650.00
	Balmatta Road				0.0		1000.00
	LHS Ch.0.0 to Ch.40.0	Sqm Sqm	1	44.9	3.6		162.84
	LHS Ch.60.0 to ch.320.0	Sqm	1	244.0	2.7		658.80
	LHS						
	Ch.500.0 to ch.531.0	Sqm	1	37.7	0.7		26.77

Sr. No.	Description	Unit	No's	L	в	н	Qty.
	Balmatta Road-LHS						
	Ch.0.0 to Ch.90.0	Sqm	1.00	79.00	2.20		173.80
	Ch. 90.0 to Ch.190.00	Sqm	1.00	100.00	4.44		444.00
	Landscape Deduction	Sqm	-1.00	81.72	1.01		-82.54
	Compound Wall Side-Ch.100 to Ch.185.0	Sqm	1.00	85.00	2.39		202.81
	Ch.190 to Ch.340	Sqm	1.00	150.00	2.63		394.00
	Ch. 360 to Ch.470 Ch.470.0 to Ch.530.0	Sqm Sqm	1.00	151.00 80.00	2.20		332.20 176.00
		Oqm	1.00	00.00	2.20		170.00
	Balmatta Road-RHS		1.00	400.00	0.05		044.50
	Ch.0.0 to Ch.130	Sqm	1.00	130.00	2.65		344.50
	Ch.135.0 to Ch.205.0 Ch.200 to Ch.360.0	Sqm Sqm	1.00	70.00	2.34		163.80 531.20
	Ch.360.0 to Ch.530.0	Sqm	1.00	170.00	3.26		554.20
	Sturrock Road Ch.0.0 to Ch.560.0	Sqm	1	560.0	6.7		0.00
	Intermediate Junctions	Sqm	3	10.0	6.7		201.00
	Anand shetty Junctions	Sqm	1	10.0	20.3		203.00
	RHS	0		400	0.00		4774.00
	Ch.100.0 to Ch.540.0	Sqm	1	480	3.69		1771.20
	Ch.100.0 to Ch.570.0	Sqm	1	470	1.97		925.90
	Road-7b-Hampankatta to Milagres 1st Cross Lane						
	LHS			200.0			E00.00
	Ch.20.00 to Ch.220.0	Sqm	1	200.0	2.5		508.00
	Ch.20.00 to Ch.50.0	Sqm	1	30.0	5.4		161.00
	Ch.50.0 to Ch.90.0						
	Ch.110.0 to Ch.220.0	Sqm	1	110.0	2.6		282.00
	7e-Milagres Nandigidda Road LHS						-
	Ch.25.00 to Ch.45.00	Sqm	1	20.0	4.3		86.96
	Ch.155.00 to Ch.330.00	Sqm	1	175.0	3.8		669.85
	RHS	· · · ·					
	Ch.170.00 to Ch.330.00	Sqm	1	160.0	2.7		428.50
	13a-PVS Circle to Arya Samaj Junction						
	LHS-Paver on Footpath Ch.0.0 to Ch.60.0	Sqm	1	60.0	2.4		142.00
	Ch.62.00 to Ch.128.0	Sqm	1	66.0	2.4		137.00
	Ch.132.0 to Ch.280.0	Sqm	1	148.0	2.3		335.00
	Ch.285.0 to Ch.390.0	Sqm	1	105.0	2.2		232.00
	Ch.395.0 to Ch.455.0	Sqm	1	60.0	1.4		85.00
	Ch.460.0 to ch.545.0 Ch.580.0 to Ch.640.0	Sqm Sqm	1	85.0 60.0	2.4		203.00
	Ch.640.0 to Ch.800.0	Sqm	1	160.0	2.1		330.00
	Ch.805.0 to Ch.860.0	Sqm	1	55.0	2.4		130.00
	Ch.860.0 to Ch.920.0	Sqm	1	60.0	2.7		161.00
	Ch.925.0 to ch.960.0	Sqm	1	35.0	2.9		100.00
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0	Sqm Sqm	1	100.0 50.0	2.6		261.00 201.00
	LHS-Compound Side Paver	Sqiii		50.0	4.0		201.00
	Ch.10.00 to Ch.60.00	Sqm	1	50.0	2.5		123.00
	Ch.60.00 to Ch.130.0	Sqm	1	70.0	1.8		126.00
	Ch.130.0 to Ch.200.0	Sqm	1	70.0	2.7		186.00
	Ch.235.0 to Ch.270.0 Ch.490.0 to Ch.540.0	Sqm Sqm	1	35.0 50.0	1.0		36.00 48.00
	Ch.650.0 to Ch.800.0	Sqm	1	150.0	2.6		386.00
	Ch.925.00 to Ch.950.0	Sqm	1	25.0	1.9		47.00
	Ch.960.0 to Ch.1050.0	Sqm	1	90.0	6.2		561.00
	RHS						
	Ch.0.0 to Ch.320.0	Sqm	1	320.0	2.3		728.00
	Ch.330.0 to Ch.510.0 Ch.510.0 to Ch.538.0	Sqm Sqm	1	180.0 28.0	2.1		370.00 58.00
	Ch.540.0 to Ch.578.0	Sqm	1	28.0	1.7		66.00
	Ch.580.0 to Ch.660.0	Sqm	1	80.0	3.2		257.00
	Ch.680.0 to Ch.750.0	Sqm	1	70.0	3.5		247.00
	Ch.750.0 to Ch.1020.0	Sqm	1	270.0	1.6		433.00
	Ch.1025.0 to Ch.1060.0 Ch.1070.0 to Ch.1110.0	Sqm Sqm	1	<u>35.0</u> 40.0	1.1		38.00 74.00
	RHS-Compound Side Paver	Sqiii	1	40.0	1.9		74.00
	Ch.0.0 to Ch.210.0	Sqm	1	210.0	1.9		404.00
	Ch.230.0 to Ch.290.0	Sqm	1	60.0	0.6		38.00
	Ch.325.0 to Ch.390.0	Sqm	1	65.0	1.6		103.00
	Ch.470.0 to Ch.510.0	Sqm	1	40.0	4.3		170.00
	Ch.515.0 to Ch.535.0 CH.540.0 to Ch.575.0	Sqm Sqm	1	20.0	2.4		48.00
	Ch.830.0 to Ch.970.0	Sqm	1	140.0	7.2		1008.0
	13b-Hampankatta to PVS Circle		<u> </u>				
	LHS						
	Ch.10.0 to Ch.180.0	Sqm	1	170.0	2.1		357.00
	Ch.255.0 to Ch.345.0 Ch.350.0 to Ch.440.0	Sqm Sqm	1	90.0 90.0	2.6		236.00
	Ch.590.0 to Ch.680.0	Sqm	1	90.0	2.3		207.00
	Ch.680.0 to Ch.845.0	Sqm	1	165.0	2.1		351.00
	Ch.840.0 to Ch.880.0	Sqm	1	40.0	4.6		183.00

Sr. No.	Description	Unit	No's	L	в	н	Qty.
	Ch.880.0 to Ch.900.0	Sqm	1	20.0	8.3		165.00
	Ch.900.0 to Ch.965.0	Sqm	1	65.0	2.4		157.00
	Ch.965.0 to Ch.1110.0 Ch.1110.0 to Ch.1120.0	Sqm Sqm	1	145.0 10.0	2.2 8.1		316.00 81.34
	Compound Wallside Paver Block	Sqiii		10.0	0.1		01.34
	Ch.70.0 to Ch.180.0	Sqm	1	110.0	3.0		326.00
	Ch.255.0 to Ch.340.0	Sqm	1	85.0	1.9		161.00
	Ch.355.0 to Ch.410.0	Sqm	1	55.0	2.8		155.00
	Ch.590.0 to Ch.680.0	Sqm	1	90.0	4.1		373.09
	Ch.680.0 to Ch.730.0 Ch.820.0 to Ch.840.0	Sqm	1	50.0	1.3		66.00
	Ch.840.0 to Ch.880.0	Sqm Sqm	1	20.0	3.8 3.8		75.00
	Ch.880.0 to Ch.900.0	Sqm	1	20.0	8.3		165.00
	Ch.900.0 to Ch.935.0	Sqm	1	35.0	2.9		102.00
	Ch.900.0 to Ch.930.0	Sqm	1	30.0	3.4		102.00
	Ch.970.0 to Ch.1040.0	Sqm	1	70.0	7.2		504.00
	Ch.1060 to Ch.1110.0	Sqm	1	50.0	2.9		145.00
	RHS Ch.10.0 to Ch.140.0	Sam	1	130.0	1.4		181.73
	Ch. 10.0 to Ch. 140.0 Ch. 150.0 to Ch.510.0	Sqm Sqm	1	360.0	2.1		758.00
	Ch.515.0 to Ch.630.0	Sqm	1	115.0	2.1		292.00
	Ch.630.0 to Ch.1090.0	Sqm	1	460.0	1.8		842.00
	Compound Wallside Paver Block						
	Ch.160.0 to Ch.270.0	Sqm	1	110.0	0.7		79.00
	Ch.270.0 to Ch.475.0	Sqm	1	205.0	2.3		476.00
	Ch.480.0 to Ch.505.0	Sqm	1	25.0	0.8		21.00
	Ch.515.0 to Ch.525.0 Ch.590.0 to Ch.630.0	Sqm Sqm	1	10.0 40.0	0.8		8.00 128.00
	12-Bunts Hostel Road	Sqm	1	40.0	3.2		120.00
	LHS						
	Ch.10.0 to Ch.118.00	Sqm	1	108.0	3.8		408.24
	Ch.200.0 to Ch.440.0	Sqm	1	240.0	2.4		587.00
	Ch.450.0 to Ch.478.0	Sqm	1	28.0	3.5		99.00
	RHS	0		455.0	0.4		500 55
	Ch.10.0 to Ch.165.0 Ch.300.0 to Ch.470.0	Sqm Sqm	1	155.0 170.0	3.4 3.8		528.55 642.60
	Humpankatta Junction and Balmatta Road	Sqm	1	410.0	6.4		2603.50
		Sqm		Total Qty.	0.1		32923.84
14	KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine 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						
14	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.						
14	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						
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a						
14	M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137						
14	M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-C0-137 Base	Cum	2.00	97.00	1.70	0.10	32.98
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-176						
14	M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-C0-137 Base	Cum	2.00	97.00	1.70	0.10	<u>32.98</u> 21.65
14	M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-C0-137 Base Node-C0-176 Base Node-C0-143 Base						
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-C0-137 Base Node-C0-176 Base Node-C0-143 Base Node-C0-144	Cum Cum	2.00	49.20 69.00	2.20	0.10	21.65 27.60
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-176 Base Node-CO-143 Base Node-CO-144 Base	Cum	2.00	49.20	2.20	0.10	21.65
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-C0-137 Base Node-C0-176 Base Node-C0-143 Base Node-C0-144	Cum Cum	2.00	49.20 69.00	2.20	0.10	21.65 27.60
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-176 Base Node-CO-143 Base Node-CO-144 Base Node-CO-144 Base Node-CO-145 Base Node-CO-145	Cum Cum Cum	2.00 2.00 2.00	49.20 69.00 42.30	2.20 2.00 1.80	0.10	21.65 27.60 15.23
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-176 Base Node-CO-144 Base Node-CO-144 Base Node-CO-145 Base Node-CO-145 Base	Cum Cum Cum	2.00 2.00 2.00	49.20 69.00 42.30	2.20 2.00 1.80	0.10	21.65 27.60 15.23
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-176 Base Node-CO-143 Base Node-CO-144 Base Node-CO-145 Base Node-CO-162 Base Node-CO-162 Base	Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40	2.20 2.00 1.80 1.50 1.40	0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-C0-137 Base Node-C0-176 Base Node-C0-143 Base Node-C0-144 Base Node-C0-145 Base Node-C0-162 Base Node-C0-138 Base	Cum Cum Cum Cum	2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10	2.20 2.00 1.80 1.50	0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-C0-137 Base Node-C0-176 Base Node-C0-143 Base Node-C0-145 Base Node-C0-145 Base Node-C0-162 Base Node-C0-138 Base Node-C0-138 Base Node-C0-141	Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80	2.20 2.00 1.80 1.50 1.40 1.20	0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-C0-137 Base Node-C0-176 Base Node-C0-143 Base Node-C0-144 Base Node-C0-145 Base Node-C0-162 Base Node-C0-138 Base	Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40	2.20 2.00 1.80 1.50 1.40	0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-176 Base Node-CO-143 Base Node-CO-144 Base Node-CO-145 Base Node-CO-145 Base Node-CO-162 Base Node-CO-138 Base Node-CO-138 Base Node-CO-141 Base	Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80	2.20 2.00 1.80 1.50 1.40 1.20	0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-C0-137 Base Node-C0-176 Base Node-C0-143 Base Node-C0-144 Base Node-C0-145 Base Node-C0-162 Base Node-C0-188 Base Node-C0-141 Base Node-C0-141 Base Node-C0-141 Base Node-C0-141 Base Node-C0-141 Base Node-C0-141 Base Node-C0-141 Base Node-C0-141	Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70 46.30	2.20 2.00 1.80 1.50 1.40 1.20 1.20 1.20	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05 11.11
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-176 Base Node-CO-143 Base Node-CO-144 Base Node-CO-144 Base Node-CO-145 Base Node-CO-145 Base Node-CO-138 Base Node-CO-138 Base Node-CO-139 Base Node-CO-139 Base Node-CO-139 Base Node-CO-146 Base	Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70	2.20 2.00 1.80 1.50 1.40 1.20 1.20	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-C0-137 Base Node-C0-176 Base Node-C0-144 Base Node-C0-144 Base Node-C0-145 Base Node-C0-162 Base Node-C0-138 Base Node-C0-138 Base Node-C0-139 Base Node-C0-141 Base Node-C0-146 Base Node-C0-146 Base Node-C0-147	Cum Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70 46.30 105.90	2.20 2.00 1.80 1.50 1.40 1.20 1.20 1.20 1.20	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05 11.11 25.42
14	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-176 Base Node-CO-143 Base Node-CO-144 Base Node-CO-145 Base Node-CO-162 Base Node-CO-162 Base Node-CO-141 Base Node-CO-141 Base Node-CO-141 Base Node-CO-141 Base Node-CO-147 Base	Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70 46.30	2.20 2.00 1.80 1.50 1.40 1.20 1.20 1.20	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05 11.11
	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-C0-137 Base Node-C0-176 Base Node-C0-144 Base Node-C0-144 Base Node-C0-145 Base Node-C0-162 Base Node-C0-138 Base Node-C0-138 Base Node-C0-139 Base Node-C0-141 Base Node-C0-146 Base Node-C0-146 Base Node-C0-147	Cum Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70 46.30 105.90	2.20 2.00 1.80 1.50 1.40 1.20 1.20 1.20 1.20	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05 11.11 25.42
	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-176 Base Node-CO-143 Base Node-CO-144 Base Node-CO-144 Base Node-CO-145 Base Node-CO-162 Base Node-CO-138 Base Node-CO-139 Base Node-CO-141 Base Node-CO-146 Base Node-CO-147 Base Node-CO-148 Base Node-CO-147 Base Node-CO-147 Base Node-CO-148 Base Node-CO-148 Base Node-CO-149	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70 46.30 105.90 69.10 117.70	2.20 2.00 1.80 1.50 1.40 1.20 1.20 1.20 1.20 1.20 1.20 1.20	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05 11.11 25.42 16.58 32.96
	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-C0-137 Base Node-C0-176 Base Node-C0-143 Base Node-C0-144 Base Node-C0-145 Base Node-C0-145 Base Node-C0-162 Base Node-C0-162 Base Node-C0-141 Base Node-C0-141 Base Node-C0-141 Base Node-C0-141 Base Node-C0-142 Base Node-C0-143 Base Node-C0-144 Base Node-C0-145 Base Node-C0-146 Base Node-C0-147 Base Node-C0-147 Base Node-C0-147 Base Node-C0-148 Base Node-C0-149 Base	Cum Cum Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70 46.30 105.90 69.10	2.20 2.00 1.80 1.50 1.40 1.20 1.20 1.20 1.20 1.20	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05 11.11 25.42 16.58
	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-143 Base Node-CO-143 Base Node-CO-144 Base Node-CO-145 Base Node-CO-162 Base Node-CO-162 Base Node-CO-138 Base Node-CO-141 Base Node-CO-141 Base Node-CO-146 Base Node-CO-147 Base Node-CO-146 Base Node-CO-147 Base Node-CO-147 Base Node-CO-147 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70 46.30 105.90 69.10 117.70 83.70	2.20 2.00 1.80 1.50 1.40 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.40	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05 11.11 25.42 16.58 32.96 23.44
	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-143 Base Node-CO-144 Base Node-CO-144 Base Node-CO-145 Base Node-CO-145 Base Node-CO-141 Base Node-CO-141 Base Node-CO-141 Base Node-CO-141 Base Node-CO-141 Base Node-CO-146 Base Node-CO-146 Base Node-CO-147 Base Node-CO-147 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-149 Base	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70 46.30 105.90 69.10 117.70	2.20 2.00 1.80 1.50 1.40 1.20 1.20 1.20 1.20 1.20 1.20 1.20	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05 11.11 25.42 16.58 32.96
	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-143 Base Node-CO-143 Base Node-CO-144 Base Node-CO-145 Base Node-CO-162 Base Node-CO-162 Base Node-CO-138 Base Node-CO-141 Base Node-CO-141 Base Node-CO-146 Base Node-CO-147 Base Node-CO-146 Base Node-CO-147 Base Node-CO-147 Base Node-CO-147 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70 46.30 105.90 69.10 117.70 83.70	2.20 2.00 1.80 1.50 1.40 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.40	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05 11.11 25.42 16.58 32.96 23.44
	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-C0-137 Base Node-C0-176 Base Node-C0-143 Base Node-C0-144 Base Node-C0-144 Base Node-C0-145 Base Node-C0-162 Base Node-C0-162 Base Node-C0-138 Base Node-C0-141 Base Node-C0-141 Base Node-C0-141 Base Node-C0-148 Base Node-C0-147 Base Node-C0-147 Base Node-C0-148 Base Node-C0-148 Base Node-C0-149 Base Node-C0-149 Base Node-C0-140 Base Node-C0-140 Base Node-C0-140 Base Node-C0-140 Base Node-C0-140 Base	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70 46.30 105.90 69.10 117.70 83.70 64.80	2.20 2.00 1.80 1.50 1.40 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.2	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05 11.11 25.42 16.58 32.96 23.44 15.55
	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. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-176 Base Node-CO-144 Base Node-CO-144 Base Node-CO-145 Base Node-CO-162 Base Node-CO-162 Base Node-CO-162 Base Node-CO-1141 Base Node-CO-1141 Base Node-CO-141 Base Node-CO-146 Base Node-CO-146 Base Node-CO-147 Base Node-CO-147 Base Node-CO-148 Base Node-CO-149 Base Node-CO-149 Base Node-CO-140 Base Node-CO-140 Base Node-CO-140 Base Node-CO-140 Base Node-CO-140 Base Node-CO-140 Base Node-CO-140 Base	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70 46.30 105.90 69.10 117.70 83.70 64.80	2.20 2.00 1.80 1.50 1.40 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.2	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05 11.11 25.42 16.58 32.96 23.44 15.55
	M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-176 Base Node-CO-143 Base Node-CO-144 Base Node-CO-145 Base Node-CO-145 Base Node-CO-162 Base Node-CO-138 Base Node-CO-138 Base Node-CO-139 Base Node-CO-146 Base Node-CO-147 Base Node-CO-147 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-149 Base Node-CO-150 Base Node-CO-150 Base	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70 46.30 105.90 69.10 117.70 83.70 64.80 26.10	2.20 2.00 1.80 1.50 1.40 1.20 1.20 1.20 1.20 1.20 1.40 1.40 1.40	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05 11.11 25.42 16.58 32.96 23.44 15.55 7.31
	M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-C0-137 Base Node-C0-176 Base Node-C0-143 Base Node-C0-144 Base Node-C0-145 Base Node-C0-145 Base Node-C0-162 Base Node-C0-162 Base Node-C0-162 Base Node-C0-141 Base Node-C0-141 Base Node-C0-146 Base Node-C0-147 Base Node-C0-148 Base Node-C0-148 Base Node-C0-148 Base Node-C0-148 Base Node-C0-149 Base Node-C0-149 Base Node-C0-150 Base Node-C0-151 Base	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70 46.30 105.90 69.10 117.70 83.70 64.80 26.10	2.20 2.00 1.80 1.50 1.40 1.20 1.20 1.20 1.20 1.20 1.40 1.40 1.40	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05 11.11 25.42 16.58 32.96 23.44 15.55 7.31
	M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (SI.No. 4.6 of KPWD 18-19) SWD Road 13a Node-CO-137 Base Node-CO-176 Base Node-CO-143 Base Node-CO-144 Base Node-CO-145 Base Node-CO-145 Base Node-CO-162 Base Node-CO-138 Base Node-CO-138 Base Node-CO-139 Base Node-CO-146 Base Node-CO-147 Base Node-CO-147 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-148 Base Node-CO-149 Base Node-CO-150 Base Node-CO-150 Base	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	49.20 69.00 42.30 71.10 114.40 54.80 37.70 46.30 105.90 69.10 117.70 83.70 64.80 26.10	2.20 2.00 1.80 1.50 1.40 1.20 1.20 1.20 1.20 1.20 1.40 1.40 1.40	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	21.65 27.60 15.23 21.33 32.03 13.15 9.05 11.11 25.42 16.58 32.96 23.44 15.55 7.31

Sr. No.	Description	Unit	No's	L	в	н	Qty.
	Base	Cum	2.00	74.30	1.90	0.10	28.23
	Node-CO-152 Base	Cum	2.00	93.80	1.90	0.10	35.64
	Node-CO-135						
	Base Node-CO-134	Cum	2.00	86.40	1.90	0.10	32.83
	Base	Cum	2.00	81.40	2.00	0.10	32.56
	Node-CO-133	0	0.00	74.00	0.00	0.40	00.70
	Base Node-CO-131	Cum	2.00	71.90	2.00	0.10	28.76
	Base	Cum	2.00	94.50	1.60	0.10	30.24
	Node-CO-160 Base	Cum	2.00	36.50	1.60	0.10	11.68
	Node-CO-128	Culli	2.00	30.30	1.00	0.10	11.00
	Base	Cum	2.00	121.40	1.60	0.10	38.85
	Node-CO-178 Base	Cum	2.00	57.30	1.50	0.10	17.19
	Node-CO-154						
	Base Node-CO-130	Cum	2.00	52.80	1.90	0.10	20.06
	Base	Cum	2.00	64.00	1.70	0.10	21.76
	Node-CO-126		0.00				04.00
	Base	Cum	2.00	81.80	1.90	0.10	31.08
	Road 12						
	Node-CO-179	Cum	2.00	EG 70	1.60	0.10	10 14
	Base Node-CO-181	Cum	2.00	56.70	1.60	0.10	18.14
	Base	Cum	2.00	301.20	1.40	0.10	84.34
	Node-CO-180 Base	Cum	2.00	114.70	1.40	0.10	32.12
			2.00		1.40	0.10	02.12
	Balmatta Road						
	Foundation RHS-D12	Cum	1.00	381.00	1.20	0.10	45.72
	RHS-D12A	Cum	1.00	100.00	1.60	0.10	16.00
	LHS-D11	Cum	1.00	481.00	1.20	0.10	57.72
	Road 7e						
	Node-CO-61						
	Base Node-CO-63	Cum	1.00	15.00	1.60	0.10	2.40
	Base	Cum	1.00	43.00	1.30	0.10	5.59
	Node-CO-62						
	Base Node-CO-60	Cum	1.00	57.80	1.30	0.10	7.51
	Base	Cum	1.00	58.70	1.30	0.10	7.63
	Wall Slab	Cum	1.00	58.70	1.10	0.10	6.46
	Node-CO-59	Culli	1.00	50.70	1.10	0.10	0.40
	Base	Cum	1.00	64.30	1.30	0.10	8.36
	Node-CO-52 Base	Cum	1.00	43.10	1.40	0.10	6.03
	Node-CO-54	Guin	1.00		1.10	0.10	
	Base	Cum	1.00	72.60	1.60	0.10	11.62
	Node-CO-53 Base	Cum	1.00	50.20	1.30	0.10	6.53
	Node-CO-58						
	Base	Cum	1.00	132.10	1.30	0.10	17.17
	Road 7b						
	Node-CO-29	-	0.00	450.00	1.00	0.10	F4 44
	Base Node-CO-87	Cum	2.00	159.80	1.60	0.10	51.14
	PCC Below Kerb Stone	Cum	1	7875.04	0.47	0.10	366.19
	PCC Below Water Table	Cum	1.00	2126.60	0.50	0.10	106.33
	Box Culvert						
	7b-Hampankatta to Milagres Cross Road						1.65
	Box Culvert-Slab 7e-Attavar Road-Mother theresa Road to Nandiguda Road	Cum	2.0	20.0	1.0	0.1	4.00
	Box Culvert-Slab	Cum	4.0	12.0	1.0	0.1	4.80
	13a-KRR Road-PVS Circle to Arya Samaj Road	Cum	8.0	25.0	1.5	0.1	30.00
	Box Culvert-Slab 13b-KRR Road-PVS Circle to Hampankatta	Cum	0.0	20.0	G. I	0.1	30.00
	Box Culvert-Slab	Cum	8.0	25.0	1.5	0.1	30.00
	12-Bunts Hostel Road Box Culvert-Slab	Cum	4.0	14.0	1.5	0.1	8.40
		Cuiii	4.0	14.0		0.1	0.40
	Base	Cum	2.00	95.40	1.60	0.10	30.53
	Electrical Chamber Electrical Poles	Cum Cum	292.00 160.00	2.90 0.50	2.00	0.10	169.36 4.00
		Cum		Total Qty.	0.50	0.10	4.00 1851.60

Sr. No.	Description	Unit	No's	L	В	н	Qty.
15	KSRRB 400 Granular Sub-Base with Coarse Graded Material (table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI. (SI.No.20.4 of KPWD SR 2018-19)						
	Pavement						
	7b-Hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0	Cum Cum	1	100	12.9	0.15	193.50
	Road towards Wenlock Hospital	Cum	1	20	12.9	0.15	37.50
	7e-Milagres Nandigidda Road						
	Ch.0.00 to Ch.330.0 RHS	Cum	1	330	5	0.15	247.50
	Ch.100.0 to Ch.540.0	Cum	1	480	3.69	0.15	265.68
	LHS						
	Ch.100.0 to Ch.570.0 Balmatta Road	Cum	1	470	1.97	0.15	<u>138.89</u> 0.00
	LHS						0.00
	Ch.0.0 to Ch.40.0	Cum	1	44.86	3.63	0.15	24.43
	LHS			0.1.1		0.45	0.00
	Ch.60.0 to ch.320.0	Cum	1	244	2.7	0.15	98.82 0.00
	Ch.500.0 to ch.531.0	Cum	1	37.7	0.71	0.15	4.02
	Humpankatta Junction and Balmatta Road	Cum	1	410	6.35	0.15	390.53
		Cum		Total Qty.			1400.85
16	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-7b-Hampankatta to Milagres 1st Cross Lane						
	LHS Ch.20.00 to Ch.220.0	Cum	1.00	200.00	2.54	0.15	76.20
	RHS	Oum	1.00	200.00	2.04	0.10	10.20
	Ch.20.00 to Ch.50.0	Cum	1.00	30.00	5.37	0.15	24.15
	Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0	Cum Cum	1.00 1.00	40.00	2.20	0.15	13.20 42.30
	7e-Milagres Nandigidda Road	Cum	1.00	110.00	2.50	0.15	42.00
	LHS						
	Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.330.00	Cum Cum	1.00 1.00	20.00 175.00	4.35	0.15	<u>13.04</u> 100.48
	RHS	Cum	1.00	175.00	5.05	0.15	100.40
	Ch.170.00 to Ch.330.00	Cum	1.00	160.00	2.68	0.15	64.28
	13a-PVS Circle to Arya Samaj Junction						
	LHS-Paver on Footpath Ch.0.0 to Ch.60.0	Cum	1.00	60.00	2.37	0.15	21.30
	Ch.62.00 to Ch.128.0	Cum	1.00	66.00	2.08	0.15	20.55
	Ch.132.0 to Ch.280.0	Cum	1.00	148.00	2.26	0.15	50.25
	Ch.285.0 to Ch.390.0	Cum	1.00	105.00	2.21	0.15	34.80
	Ch.395.0 to Ch.455.0 Ch.460.0 to ch.545.0	Cum Cum	1.00	60.00 85.00	1.42 2.39	0.15	<u>12.75</u> 30.45
	Ch.580.0 to Ch.640.0	Cum	1.00	60.00	3.20	0.15	28.80
	Ch.640.0 to Ch.800.0	Cum	1.00	160.00	2.06	0.15	49.50
	Ch.805.0 to Ch.860.0	Cum	1.00	55.00	2.36	0.15	19.50
	Ch.860.0 to Ch.920.0	Cum Cum	1.00 1.00	60.00 35.00	2.68	0.15	24.15 15.00
	Ch 925 0 to ch 960 0		1.00	100.00	2.61	0.15	39.15
	Ch.925.0 to ch.960.0 Ch.960.0 to Ch.1060.0	Cum		50.00	4.02	0.15	30.15
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0	Cum Cum	1.00	50.00	1.02		
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver	Cum				0.45	10 / Г
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver Ch.10.00 to Ch.60.00	Cum Cum	1.00	50.00	2.46	0.15	18.45 18.90
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver Ch.10.00 to Ch.60.00 Ch.60.00 to Ch.130.0 Ch.130.0 to Ch.200.0	Cum Cum Cum Cum	1.00 1.00 1.00	50.00 70.00 70.00	2.46 1.80 2.66	0.15 0.15	18.90 27.90
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver Ch.10.00 to Ch.60.00 Ch.60.00 to Ch.130.0 Ch.130.0 to Ch.200.0 Ch.235.0 to Ch.270.0	Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00	50.00 70.00 70.00 35.00	2.46 1.80 2.66 1.03	0.15 0.15 0.15	18.90 27.90 5.40
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver Ch.10.00 to Ch.60.00 Ch.60.00 to Ch.130.0 Ch.130.0 to Ch.200.0 Ch.235.0 to Ch.270.0 Ch.490.0 to Ch.540.0	Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00	50.00 70.00 70.00 35.00 50.00	2.46 1.80 2.66 1.03 0.96	0.15 0.15 0.15 0.15	18.90 27.90 5.40 7.20
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver Ch.10.00 to Ch.60.00 Ch.60.00 to Ch.130.0 Ch.130.0 to Ch.200.0 Ch.235.0 to Ch.270.0 Ch.490.0 to Ch.540.0 Ch.650.0 to Ch.800.0	Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00 1.00	50.00 70.00 35.00 50.00 150.00	2.46 1.80 2.66 1.03 0.96 2.57	0.15 0.15 0.15 0.15 0.15 0.15	18.90 27.90 5.40 7.20 57.90
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver Ch.10.00 to Ch.60.00 Ch.60.00 to Ch.130.0 Ch.130.0 to Ch.200.0 Ch.235.0 to Ch.270.0 Ch.490.0 to Ch.540.0	Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00	50.00 70.00 70.00 35.00 50.00	2.46 1.80 2.66 1.03 0.96	0.15 0.15 0.15 0.15	18.90 27.90 5.40 7.20
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver Ch.10.00 to Ch.60.00 Ch.60.00 to Ch.130.0 Ch.130.0 to Ch.200.0 Ch.235.0 to Ch.270.0 Ch.490.0 to Ch.540.0 Ch.490.0 to Ch.540.0 Ch.925.00 to Ch.950.0 Ch.960.0 to Ch.1050.0 RHS	Cum Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.00	50.00 70.00 35.00 50.00 150.00 25.00 90.00	2.46 1.80 2.66 1.03 0.96 2.57 1.88 6.23	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	18.90 27.90 5.40 7.20 57.90 7.05 84.15
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver Ch.10.00 to Ch.60.00 Ch.60.00 to Ch.130.0 Ch.130.0 to Ch.200.0 Ch.235.0 to Ch.270.0 Ch.490.0 to Ch.540.0 Ch.650.0 to Ch.950.0 Ch.960.0 to Ch.1050.0 RHS Ch.0.0 to Ch.320.0	Cum Cum Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	50.00 70.00 35.00 150.00 25.00 90.00 320.00	2.46 1.80 2.66 1.03 0.96 2.57 1.88 6.23 2.28	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	18.90 27.90 5.40 7.20 57.90 7.05 84.15 109.20
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver Ch.10.00 to Ch.60.00 Ch.60.00 to Ch.200.0 Ch.130.0 to Ch.200.0 Ch.235.0 to Ch.270.0 Ch.490.0 to Ch.540.0 Ch.650.0 to Ch.950.0 Ch.925.00 to Ch.950.0 Ch.960.0 to Ch.1050.0 RHS Ch.0.0 to Ch.320.0 Ch.330.0 to Ch.510.0	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	50.00 70.00 35.00 50.00 150.00 25.00 90.00 320.00 180.00	2.46 1.80 2.66 1.03 0.96 2.57 1.88 6.23 2.28 2.06	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	18.90 27.90 5.40 7.20 57.90 7.05 84.15 109.20 55.50
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver Ch.10.00 to Ch.60.00 Ch.60.00 to Ch.130.0 Ch.130.0 to Ch.200.0 Ch.235.0 to Ch.270.0 Ch.490.0 to Ch.540.0 Ch.650.0 to Ch.950.0 Ch.960.0 to Ch.1050.0 RHS Ch.0.0 to Ch.320.0	Cum Cum Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	50.00 70.00 35.00 150.00 25.00 90.00 320.00	2.46 1.80 2.66 1.03 0.96 2.57 1.88 6.23 2.28	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	18.90 27.90 5.40 7.20 57.90 7.05 84.15
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver Ch.10.00 to Ch.60.00 Ch.60.00 to Ch.30.0 Ch.130.0 to Ch.200.0 Ch.235.0 to Ch.270.0 Ch.490.0 to Ch.540.0 Ch.650.0 to Ch.540.0 Ch.950.0 to Ch.950.0 Ch.960.0 to Ch.1050.0 RHS Ch.0.0 to Ch.320.0 Ch.330.0 to Ch.510.0 Ch.510.0 to Ch.538.0	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	50.00 70.00 35.00 50.00 150.00 25.00 90.00 320.00 180.00 28.00	2.46 1.80 2.66 1.03 0.96 2.57 1.88 6.23 	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	18.90 27.90 5.40 7.20 57.90 7.05 84.15 109.20 55.50 8.70 9.90
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver Ch.10.00 to Ch.60.00 Ch.60.00 to Ch.200.0 Ch.130.0 to Ch.200.0 Ch.235.0 to Ch.270.0 Ch.490.0 to Ch.540.0 Ch.650.0 to Ch.950.0 Ch.925.00 to Ch.950.0 Ch.960.0 to Ch.1050.0 RHS Ch.0.0 to Ch.520.0 Ch.330.0 to Ch.510.0 Ch.530.0 to Ch.538.0 Ch.540.0 to Ch.578.0 Ch.580.0 to Ch.578.0 Ch.680.0 to Ch.750.0	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	50.00 70.00 35.00 50.00 25.00 90.00 320.00 180.00 28.00 38.00 38.00 80.00 70.00	2.46 1.80 2.66 1.03 0.96 2.57 1.88 6.23 2.28 2.06 2.07 1.74 3.21 3.53	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	18.90 27.90 5.40 7.20 57.90 7.05 84.15 109.20 55.50 8.70 9.90 38.55 37.05
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver Ch.10.00 to Ch.60.00 Ch.60.00 to Ch.30.0 Ch.130.0 to Ch.200.0 Ch.235.0 to Ch.270.0 Ch.490.0 to Ch.540.0 Ch.650.0 to Ch.960.0 Ch.960.0 to Ch.950.0 Ch.960.0 to Ch.1050.0 RHS Ch.0.0 to Ch.520.0 Ch.530.0 to Ch.510.0 Ch.510.0 to Ch.578.0 Ch.580.0 to Ch.578.0 Ch.580.0 to Ch.575.0 Ch.680.0 to Ch.750.0 Ch.750.0 to Ch.1020.0	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	50.00 70.00 35.00 50.00 25.00 90.00 320.00 180.00 28.00 38.00 80.00 70.00	2.46 1.80 2.66 1.03 0.96 2.57 1.88 6.23 2.28 2.06 2.07 1.74 3.21 3.53 1.60	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	18.90 27.90 5.40 7.20 57.90 7.05 84.15 109.20 55.50 8.70 9.90 38.55 37.05 64.95
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0 LHS-Compound Side Paver Ch.10.00 to Ch.60.00 Ch.60.00 to Ch.200.0 Ch.130.0 to Ch.200.0 Ch.235.0 to Ch.270.0 Ch.490.0 to Ch.540.0 Ch.650.0 to Ch.950.0 Ch.925.00 to Ch.950.0 Ch.960.0 to Ch.1050.0 RHS Ch.0.0 to Ch.520.0 Ch.330.0 to Ch.510.0 Ch.530.0 to Ch.538.0 Ch.540.0 to Ch.578.0 Ch.580.0 to Ch.578.0 Ch.680.0 to Ch.750.0	Cum Cum Cum Cum Cum Cum Cum Cum Cum Cum	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	50.00 70.00 35.00 50.00 25.00 90.00 320.00 180.00 28.00 38.00 38.00 80.00 70.00	2.46 1.80 2.66 1.03 0.96 2.57 1.88 6.23 2.28 2.06 2.07 1.74 3.21 3.53	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	18.90 27.90 5.40 7.20 57.90 7.05 84.15 109.20 55.50 8.70 9.90 38.55 37.05

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.0.0 to Ch.210.0	Cum	1.00	210.00	1.92	0.15	60.60
	Ch.230.0 to Ch.290.0 Ch.325.0 to Ch.390.0	Cum Cum	1.00 1.00	60.00 65.00	0.63	0.15	5.70 15.45
	Ch.470.0 to Ch.510.0	Cum	1.00	40.00	4.25	0.15	25.50
	Ch.515.0 to Ch.535.0	Cum	1.00	20.00	2.40	0.15	7.20
	CH.540.0 to Ch.575.0	Cum	1.00	35.00	3.23	0.15	16.95
	Ch.830.0 to Ch.970.0	Cum	1.00	140.00	7.20	0.15	151.20
	13b-Hampankatta to PVS Circle						
	LHS Ch.10.0 to Ch.180.0	Cum	1.00	170.00	2.10	0.15	53.55
	Ch.255.0 to Ch.345.0	Cum	1.00	90.00	2.62	0.15	35.40
	Ch.350.0 to Ch.440.0	Cum	1.00	90.00	2.30	0.15	31.05
	Ch.590.0 to Ch.680.0	Cum	1.00	90.00	2.24	0.15	30.30
	Ch.680.0 to Ch.845.0	Cum	1.00	165.00	2.13	0.15	52.65
<u> </u>	Ch.840.0 to Ch.880.0	Cum	1.00	40.00	4.58	0.15	27.45
	Ch.880.0 to Ch.900.0 Ch.900.0 to Ch.965.0	Cum Cum	1.00 1.00	20.00 65.00	8.25 2.42	0.15	24.75 23.55
	Ch.965.0 to Ch.1110.0	Cum	1.00	145.00	2.42	0.15	47.40
	Ch.1110.0 to Ch.1120.0	Cum	1.00	10.00	8.13	0.15	12.20
	Compound Wallside Paver Block						
	Ch.70.0 to Ch.180.0	Cum	1.00	110.00	2.96	0.15	48.90
L	Ch.255.0 to Ch.340.0	Cum	1.00	85.00	1.89	0.15	24.15
	Ch.355.0 to Ch.410.0	Cum	1.00	55.00	2.82	0.15	23.25
<u> </u>	Ch.590.0 to Ch.680.0 Ch.680.0 to Ch.730.0	Cum Cum	1.00 1.00	90.00 50.00	4.15	0.15	55.96 9.90
	Ch.820.0 to Ch.840.0	Cum	1.00	20.00	3.75	0.15	11.25
	Ch.840.0 to Ch.880.0	Cum	1.00	40.00	3.83	0.15	22.95
	Ch.880.0 to Ch.900.0	Cum	1.00	20.00	8.25	0.15	24.75
	Ch.900.0 to Ch.935.0	Cum	1.00	35.00	2.91	0.15	15.30
	Ch.900.0 to Ch.930.0	Cum	1.00	30.00	3.40	0.15	15.30
<u> </u>	Ch.970.0 to Ch.1040.0	Cum	1.00	70.00	7.20	0.15	75.60
	Ch.1060 to Ch.1110.0 RHS	Cum	1.00	50.00	2.90	0.15	21.75
	Ch.10.0 to Ch.140.0	Cum	1.00	130.00	1.40	0.15	27.26
	Ch.150.0 to Ch.510.0	Cum	1.00	360.00	2.11	0.15	113.70
	Ch.515.0 to Ch.630.0	Cum	1.00	115.00	2.54	0.15	43.80
	Ch.630.0 to Ch.1090.0	Cum	1.00	460.00	1.83	0.15	126.30
	Compound Wall side Paver Block	Cum	0.00	0.00	0.00	0.15	0.00
	Ch.160.0 to Ch.270.0	Cum	1.00	110.00	0.72	0.15	11.85
L	Ch.270.0 to Ch.475.0	Cum	1.00	205.00	2.32	0.15	71.40
	Ch.480.0 to Ch.505.0	Cum	1.00	25.00	0.84	0.15	3.15
	Ch.515.0 to Ch.525.0 Ch.590.0 to Ch.630.0	Cum Cum	1.00 1.00	10.00 40.00	0.80	0.15	1.20 19.20
	12-Bunts Hostel Road	Cum	1.00	40.00	3.20	0.15	19.20
	LHS						
	Ch.10.0 to Ch.118.00	Cum	1.00	108.00	3.78	0.15	61.24
	Ch.200.0 to Ch.440.0	Cum	1.00	240.00	2.45	0.15	88.05
	Ch.450.0 to Ch.478.0	Cum	1.00	28.00	3.54	0.15	14.85
	RHS Ch.10.0 to Ch.165.0	C	1.00	155.00	2.44	0.45	70.00
	Ch.300.0 to Ch.470.0	Cum Cum	1.00	155.00 170.00	3.41 3.78	0.15	79.28 96.39
	Balmatta Road-LHS	Oum	1.00	170.00	0.70	0.10	50.00
	Ch.0.0 to Ch.90.0	Cum	1	79	2.2	0.15	26.07
	Ch. 90.0 to Ch.190.00	Cum	1	100	4.44	0.15	66.60
	Landscape Deduction	Cum	-1	81.72	1.01	0.15	-12.38
<u> </u>	Compound Wall Side-Ch.100 to Ch.185.0	Cum	1	85	2.386	0.15	30.42
	Ch.190 to Ch.340	Cum	1		2.6266667	0.15	59.10
	Ch. 360 to Ch.470 Ch.470.0 to Ch.530.0	Cum Cum	1	151 80	2.2	0.15	49.83 26.40
		Guill	'	00	2.2	0.13	20.40
	Balmatta Road-RHS	Cum					
	Ch.0.0 to Ch.130	Cum	1	130	2.65	0.15	51.68
	Ch.135.0 to Ch.205.0	Cum	1	70	2.34	0.15	24.57
<u> </u>	Ch.200 to Ch.360.0	Cum	1	160		0.15	79.68
	Ch.360.0 to Ch.530.0	Cum	1	170	3.26	0.15	83.13
<u> </u>	1	1					
		Cum		Total Otr			1711 F1
ļ		Cum		Total Qty.			4714.54
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)			Total Qty.			4714.54
17	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)			Total Qty.			4714.54
17	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.			Total Qty.	2.00		4714.54
17	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 13a Node-CO-137			Sides	2.00		
17	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 13a Node-C0-137 Base	Cum	2	Sides 97	1.5	0.10	58.20
17	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 13a Node-C0-137 Base Wall	Cum	 	Sides 97 97	1.5 0.2	1.32	<u>58.20</u> 204.86
17	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 13a Node-C0-137 Base	Cum	2	Sides 97	1.5		58.20

Sr. No.	Description	Unit	No's	L	в	н	Qty.
	Wall Slab	Cum Cum	4		0.3	2.38 0.15	281.03 53.14
	Node-CO-143	Culli	2	49.2	1.0	0.15	55.14
	Base	Cum	2		1.8	0.10	49.68
	Wall Slab	Cum Cum	4	69 69	0.2	1.66 0.15	183.26 66.24
	Node-CO-144	Oum	2	00	1.0	0.10	00.24
	Base	Cum	2		1.6	0.10	27.07
	Wall Slab	Cum Cum	4		0.1	0.72	24.36 35.53
	Node-CO-145	Oum		72.0	1.4	0.10	00.00
	Base	Cum	2		1.3	0.10	36.97
	Wall Slab	Cum Cum	4	71.1	0.1	0.61	34.70 46.93
	Node-CO-162						
	Base Wall	Cum Cum	2		1.2	0.10	54.91 223.31
	Slab	Cum	2		1	0.15	68.64
	Node-CO-138						
	Base Wall	Cum Cum	2	54.8 54.8	0.1	0.10	21.92 35.51
	Slab	Cum	2	54.8	0.1	0.81	26.30
	Node-CO-141						
	Base	Cum	2		1	0.10	15.08
	Wall Slab	Cum Cum	4	37.7 37.7	0.1	0.74	22.32 18.10
	Node-CO-139						
	Base	Cum	2		1	0.10	18.52
	Wall Slab	Cum Cum	4	46.3	0.1	0.83	30.74 22.22
	Node-CO-146	Cum			0.0	0.10	
	Base	Cum	2		1	0.10	42.36
	Wall Slab	Cum Cum	4	105.9 105.9	0.1	0.67	56.76 50.83
	Node-CO-147	Cum	2	100.9	0.0	0.15	50.05
	Base	Cum	2		1	0.10	27.64
	Wall Slab	Cum Cum	4	69.1 69.1	0.1	0.82	45.33 33.17
	Node-CO-148	Culli	2	09.1	0.0	0.15	55.17
	Base	Cum	2		1.2	0.10	56.50
	Wall Slab	Cum Cum	4	117.7 117.7	0.2	1.10 0.15	207.15 70.62
	Node-CO-149	Culli	2	117.7		0.15	10.02
	Base	Cum	2		1.2	0.10	40.18
	Wall Slab	Cum Cum	4	83.7 83.7	0.2	1.45 0.15	194.18 50.22
	Node-CO-140	Oum		00.7		0.10	00.22
	Base	Cum	2		1	0.10	25.92
	Wall Slab	Cum Cum	4	64.8 64.8	0.1	0.78	40.44 31.10
	Node-CO-150	Culli	2	04.0	0.0	0.15	51.10
	Base	Cum	2		1.2	0.10	12.53
	Wall Slab	Cum Cum	4		0.2	1.69 0.15	70.57 15.66
	Node-CO-151	Oum				0.10	10.00
	Base	Cum	2		1.2	0.10	15.36
	Wall Slab	Cum Cum	4		0.2	1.84 0.15	94.21 19.20
		Cum		02		0.10	10.20
	Road 13b			Sides	2.00		
	Node-CO-132 Base	Cum	2	175.7	1.8	0.10	63.25
	Wall	Cum	4		0.2	1.49	208.73
	Slab	Cum	2	175.7	1.6	0.15	84.34
	Node-CO-125 Base	Cum	2	74.3	1.7	0.10	25.26
	Wall	Cum	4		0.15	1.02	45.47
	Slab	Cum	2	74.3	1.5	0.15	33.44
	Node-CO-152 Base	Cum	2	93.8	1.7	0.10	31.89
	Wall	Cum	4		0.15	1.00	56.00
	Slab	Cum	2	93.8	1.5	0.15	42.21
	Node-CO-135	Cum	2	96.4	17	0.10	20.20
	Base Wall	Cum Cum	2		<u>1.7</u> 0.15	0.10	29.38 37.32
	Slab	Cum	2	86.4	1.5	0.15	38.88
	Node-CO-134 Base	Cum	2	81.4	1.8	0.10	29.30
	Wall	Cum	4		0.2	1.13	29.30 73.59
	Slab	Cum	2		1.6	0.15	39.07
	Node-CO-133	0		74.0		0.40	05.00
	Base Wall	Cum Cum	2		1.8	0.10	25.88 76.50
	Slab	Cum	2		1.6	0.15	34.51
	Node-CO-131 Base						
		Cum	2	94.5	1.4	0.10	26.46

Sr. No.	Description	Unit	No's	L	в	н	Qty.
	Slab	Cum	2	94.5	1.2	0.15	34.02
	Node-CO-160 Base	Cum	2	36.5	1.4	0.10	10.22
	Wall	Cum	4	36.5	0.3	2.08	91.10
	Slab Node-CO-128	Cum	2	36.5	1.2	0.15	13.14
	Base	Cum	2	121.4	1.4	0.10	33.99
	Wall	Cum	4	121.4	0.3	2.36	343.80
	Slab Node-CO-178	Cum	2	121.4	1.2	0.15	43.70
	Base	Cum	2	57.3	1.3	0.10	14.90
	Wall	Cum	4	57.3	0.1	0.80	18.34
	Slab Node-CO-154	Cum	2	57.3	1.1	0.15	18.91
	Base	Cum	2	52.8	1.7	0.10	17.95
	Wall	Cum	4	52.8	0.3	2.59	164.10
	Slab Node-CO-130	Cum	2	52.8	1.5	0.15	23.76
	Base	Cum	2	64	1.5	0.10	19.20
	Wall	Cum	4	64	0.2	1.74	89.09
	Slab Node-CO-126	Cum	2	64	1.3	0.15	24.96
	Base	Cum	2	81.8	1.7	0.10	27.81
	Wall	Cum	4	81.8	0.15	1.07	52.52
	Slab	Cum	2	81.8	1.5	0.15	36.81
	Road 12			Sides	2.00		
	Node-CO-179			50.7		0.40	45.00
	Base Wall	Cum Cum	2	<u>56.7</u> 56.7	<u> </u>	0.10	15.88 41.33
	Slab	Cum	2	56.7	1.2	0.20	27.22
	Node-CO-181	0		201.0	10	0.40	70.00
	Base Wall	Cum Cum	2	301.2 301.2	1.2	0.10	72.29 412.04
	Slab	Cum	2	301.2	1	0.20	120.48
	Node-CO-180	0	0	4447	1.0	0.40	07.50
	Base Wall	Cum Cum	2	<u>114.7</u> 114.7	1.2	0.10	27.53 114.24
	Slab	Cum	2	114.7	1	0.20	45.88
	Road 7e			Sides	1.00		
	Node-CO-61			0.000			
	Base	Cum	1	15	1.4	0.10	2.10
	Wall Slab	Cum Cum	2	15 15	0.15	0.76	3.40 3.60
	Node-CO-63	Cum		10	1.2	0.20	0.00
	Base	Cum	1	43	1.1	0.10	4.73
	Wall Slab	Cum Cum	2	43	0.15	0.80	10.26 7.74
	Node-CO-62						
	Base Wall	Cum Cum	1	57.8 57.8	1.1 0.15	0.10	6.36 13.70
	Slab	Cum	1	57.8	0.13	0.79	10.40
	Node-CO-60						
	Base Wall	Cum Cum	1	58.7 58.7	<u> </u>	0.10	6.46 12.68
	Slab	Cum	<u> </u>	58.7	0.15	0.72	12.68
	Node-CO-59						
	Base Wall	Cum Cum	1	64.3 64.3	1.1 0.15	0.10	7.07 13.70
	Slab	Cum	<u> </u>	64.3	0.15	0.71	11.57
	Node-CO-52						
	Base Wall	Cum Cum	1	43.1	1.2	0.10	5.17 22.58
	Slab	Cum	<u> </u>	43.1	0.2	0.20	8.62
	Node-CO-54						
	Base Wall	Cum	1	72.6	1.4	0.10	10.16
	Slab	Cum Cum	2	72.6 72.6	0.15	1.50 0.20	32.67 17.42
	Node-CO-53						
	Base Wall	Cum Cum	1	50.2 50.2	<u> </u>	0.10	5.52 13.25
	Slab	Cum	2	50.2	0.15	0.88	9.04
	Node-CO-58						
	Base Wall	Cum Cum	1	132.1 132.1	1.1 0.15	0.10	14.53 25.96
	Slab	Cum	2	132.1	0.15	0.66	25.96
	Balmatta Road-6						
	RHS-D12 Base	Cum	1	381	1.1	0.15	62.87
	Wall	Cum	2	381	0.15	0.41	46.86
	Slab	Cum	1	381	0.9	0.20	68.58
	RHS-D12A Base	Cum	1	100	1.4	0.15	21.00
	12400	1 Outri		100	1.4	0.10	21.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Slab LHS-D11	Cum	1	100	1.2	0.20	24.00
	Base	Cum	1	481	1.2	0.15	86.58
	Wall	Cum	2	481	0.2	1.38	265.51
	Slab	Cum	1	481	1	0.20	96.20
	Road 7b			Sides	2.00		
	Node-CO-29			0.000	2.00		
	Base	Cum	2	159.8	1.4	0.15	67.12
	Wall	Cum	4	159.8	0.3	3.00	575.28
	Slab Node-CO-87	Cum	2	159.8	1.2	0.20	76.70
	Base	Cum	2	95.4	1.4	0.15	40.07
	Wall	Cum	4	95.4	0.3	3.00	343.44
	Slab	Cum	2	95.4	1.2	0.20	45.79
	Ded. Of Covers-0.6m x 0.45m	Cum	-766.00	0.6	0.45	0.15	-31.02
	Ded. Gully Chambers Box Culvert	Cum	-66.00	0.6	0.5	0.20	-3.96
	7b-Hampankatta to Milagres Cross Road						
	Box Culvert-Slab	Cum	2	20	1.00	0.20	8.00
	Box Culvert-Wall	Cum	2	20	1.00	0.20	8.00
	7e-Attavar Road-Mother theresa Road to Nandiguda Road						
	Box Culvert-Slab	Cum	4	12 12	1.00	0.20	9.60
	Box Culvert-Wall 13a-KRR Road-PVS Circle to Arya Samaj Road	Cum	4	12	1.00	0.20	9.60
	Box Culvert-Slab	Cum	8	25	1.50	0.20	60.00
	Box Culvert-Wall	Cum	8	25	1.50	0.20	60.00
	13b-KRR Road-PVS Circle to Hampankatta						
	Box Culvert-Slab	Cum	8	25	1.50	0.20	60.00
	Box Culvert-Wall	Cum	8	25	1.50	0.20	60.00
	12-Bunts Hostel Road Box Culvert-Slab	Cum	4	14	1.50	0.20	16.80
	Box Culvert-Wall	Cum	4	14	1.50	0.20	16.80
	Footpath Beam						
	7b-Hampankatta to Milagres Cross Road	Cum	2	220	0.15	0.15	9.90
	7e-Attavar Road-Mother theresa Road to Nandiguda Road	Cum	2	330	0.15	0.15	14.85
	13a-KRR Road-PVS Circle to Arya Samaj Road	Cum	2	1110	0.15	0.15	49.95
	13b-KRR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road	Cum Cum	2	1120 478	0.15	0.15	50.40 21.51
	Electrical Chamber	Cum	2	470	0.15	0.15	21.01
	Foundation	Cum	292	2.70	1.80	0.15	212.87
	Long Wall	Cum	584	2.40	0.15	2.10	441.50
	Short Wall	Cum	584	1.10	0.15	2.10	202.36
	Electrical Poles		400	0.5		0.05	0.00
	Foundation Pedstal	Cum Cum	160 160	0.5	0.5	0.25	10.00
		Cum	100	Total Qty.	0.50	1.00	9467.65
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)						
	Electrical Pole						
	Electrical Pole Foundation	Sqm	640	0.5		0.25	80.00
	Electrical Pole Foundation Column	Sqm Sqm	640 640	0.5		0.25	80.00 192.00
	Electrical Pole Foundation Column SWD						
	Electrical Pole Foundation Column SWD Road 13a						
	Electrical Pole Foundation Column SWD						
	Electrical Pole Foundation Column SWD Road 13a Node-CO-137 Base Wall	Sqm	640 4 8	0.3 97 97		1.00	192.00 38.80 1024.32
	Electrical Pole Foundation Column SWD Road 13a Node-CO-137 Base Wall Slab	Sqm Sqm	640	0.3	1.3	0.1	192.00 38.80
	Electrical Pole Foundation Column SWD Road 13a Node-C0-137 Base Wall Slab Node-C0-176	Sqm Sqm Sqm Sqm	640 4 8 2	0.3 97 97 97	1.3	1.00 0.1 1.32	192.00 38.80 1024.32 252.20
	Electrical Pole Foundation Column SWD Road 13a Node-C0-137 Base Wall Slab Node-C0-176 Base	Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4	0.3 97 97 97 97 49.2	1.3	1.00 0.1 1.32 0.1	192.00 38.80 1024.32 252.20 19.68
	Electrical Pole Foundation Column SWD Road 13a Node-CO-137 Base Wall Slab Node-CO-176 Base Wall Base Wall	Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 8	0.3 97 97 97 97 97 49.2 49.2		1.00 0.1 1.32	192.00 38.80 1024.32 252.20 19.68 936.77
	Electrical Pole Foundation Column SWD Road 13a Node-C0-137 Base Wall Slab Node-C0-176 Base	Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4	0.3 97 97 97 97 49.2	1.3	1.00 0.1 1.32 0.1	192.00 38.80 1024.32 252.20 19.68
	Electrical Pole Foundation Column SwD Road 13a Node-CO-137 Base Wall Slab Node-CO-176 Base Wall Slab Node-CO-143 Base	Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 8	0.3 97 97 97 97 49.2 49.2 49.2 49.2 69		1.00 0.1 1.32 0.1	192.00 38.80 1024.32 252.20 19.68 936.77
	Electrical Pole Foundation Column SWD Road 13a Node-C0-137 Base Wall Slab Node-C0-176 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-143 Base Wall Slab	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 8 2 4 8	0.3 97 97 97 49.2 49.2 49.2 69 69	1.8	0.1 1.32 0.1 2.38	192.00 38.80 1024.32 252.20 19.68 936.77 177.12 27.60 916.32
	Electrical Pole Foundation Column SWD Road 13a Node-CO-137 Base Wall Slab Node-CO-176 Base Wall Slab Node-CO-143 Base Wall Slab Node-CO-143 Base Wall Slab	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 8 2 4 4 4	0.3 97 97 97 97 49.2 49.2 49.2 49.2 69		1.00 0.1 1.32 0.1 2.38 0.1	192.00 38.80 1024.32 252.20 19.68 936.77 177.12 27.60
	Electrical Pole Foundation Column SWD Road 13a Node-C0-137 Base Wall Slab Node-C0-176 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-143 Base Wall	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 4 8 2 2 4 4 8 2 2	0.3 97 97 97 97 49.2 49.2 49.2 69 69 69	1.8	1.00 0.1 1.32 0.1 2.38 0.1 1.66	192.00 38.80 1024.32 252.20 19.68 936.77 177.12 27.60 916.32 220.80
	Electrical Pole Foundation Column SWD Road 13a Node-CO-137 Base Wall Slab Node-CO-176 Base Wall Slab Node-CO-143 Base Wall Slab Node-CO-143 Base Wall Slab	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 8 2 4 8	0.3 97 97 97 97 49.2 49.2 49.2 69 69 69 69 69	1.8	1.00 0.1 1.32 0.1 2.38 0.1 1.66 0.1	192.00 38.80 1024.32 252.20 19.68 936.77 177.12 27.60 916.32 220.80 16.92
	Electrical Pole Foundation Column SwD Road 13a Node-C0-137 Base Wall Slab Node-C0-176 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-143 Base Wall Slab	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 8 2 4 8 2 2 4 4 4 4 4	0.3 97 97 97 97 49.2 49.2 49.2 69 69 69	1.8	1.00 0.1 1.32 0.1 2.38 0.1 1.66	192.00 38.80 1024.32 252.20 19.68 936.77 177.12 27.60 916.32 220.80
	Electrical Pole Foundation Column SWD Road 13a Node-C0-137 Base Wall Slab Node-C0-176 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-144 Base Wall Slab Node-C0-144 Base Wall Slab Node-C0-145	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 4 8 2 2 4 4 8 2 2 4 4 8 8 2 2	0.3 97 97 97 97 49.2 49.2 49.2 49.2 69 69 69 69 69 42.3 42.3 42.3	1.8	1.00 0.1 1.32 0.1 2.38 0.1 1.66 0.1	192.00 38.80 1024.32 252.20 19.68 936.77 177.12 27.60 916.32 220.80 16.92 243.65 118.44
	Electrical Pole Foundation Column SwD Road 13a Node-C0-137 Base Wall Slab Node-C0-176 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-144 Base Wall Slab Node-C0-144 Base Wall Slab Node-C0-144 Base Wall Slab	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 8 8 2 2 4 4 8 8 2 2 4 4 4 8 8 2 2 4	0.3 97 97 97 49.2 49.2 49.2 49.2 69 69 69 69 69 69 42.3 42.3 42.3 42.3	1.8	1.00 0.1 1.32 0.1 2.38 0.1 1.66 0.1 0.72 0.1	192.00 38.80 1024.32 252.20 19.68 936.77 177.12 27.60 916.32 220.80 16.92 243.65 118.44 28.44
	Electrical Pole Foundation Column SWD Road 13a Node-CO-137 Base Wall Slab Node-CO-176 Base Wall Slab Node-CO-143 Base Wall Slab Node-CO-143 Base Wall Slab Node-CO-143 Base Wall Slab Node-CO-143 Base Wall Slab Node-CO-144 Base Wall Slab Node-CO-145 Base Wall Slab Node-CO-145 Base Wall	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 4 8 2 2 4 4 8 2 2 4 4 8 8 2 2 4 4 8 8 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.3 97 97 97 49.2 49.2 49.2 49.2 69 69 69 69 69 42.3 42.3 42.3 42.3 71.1 71.1	1.8	1.00 0.1 1.32 0.1 2.38 0.1 1.66 0.1 0.72	192.00 38.80 1024.32 252.20 19.68 936.77 177.12 27.60 916.32 220.80 16.92 243.65 118.44 28.44 346.97
	Electrical Pole Foundation Column SWD Road 13a Node-C0-137 Base Wall Slab Node-C0-176 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-144 Base Wall Slab Node-C0-144 Base Wall Slab Node-C0-145 Base Wall Slab Node-C0-145 Base Wall Slab	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 8 8 2 2 4 4 8 8 2 2 4 4 4 8 8 2 2 4	0.3 97 97 97 49.2 49.2 49.2 49.2 69 69 69 69 69 69 42.3 42.3 42.3 42.3	1.8	1.00 0.1 1.32 0.1 2.38 0.1 1.66 0.1 0.72 0.1	192.00 38.80 1024.32 252.20 19.68 936.77 177.12 27.60 916.32 220.80 16.92 243.65 118.44 28.44
	Electrical Pole Foundation Column SWD Road 13a Node-C0-137 Base Wall Slab Node-C0-176 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-144 Base Wall Slab Node-C0-144 Base Wall Slab Node-C0-145 Base Wall Slab Node-C0-145 Base Wall Slab Node-C0-162	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 4 8 2 2 4 4 8 2 2 4 8 8 2 2 4 8 8 2 2	0.3 97 97 97 49.2 49.2 49.2 49.2 69 69 69 69 69 7 42.3 42.3 42.3 42.3 71.1 71.1	1.8	1.00 0.1 1.32 0.1 2.38 0.1 1.66 0.1 0.72 0.1 0.61	192.00 38.80 1024.32 252.20 19.68 936.77 177.12 27.60 916.32 220.80 16.92 243.65 118.44 28.44 346.97 156.42
	Electrical Pole Foundation Column SWD Road 13a Node-C0-137 Base Wall Slab Node-C0-176 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-144 Base Wall Slab Node-C0-144 Base Wall Slab Node-C0-145 Base Wall Slab Node-C0-145 Base Wall Slab	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 4 8 2 2 4 4 8 2 2 4 4 8 8 2 2 4 4 8 8 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.3 97 97 97 49.2 49.2 49.2 49.2 49.2 49.2 49.2 49.2	1.8	1.00 0.1 1.32 0.1 2.38 0.1 1.66 0.1 0.72 0.1 0.61 0.1	192.00 38.80 1024.32 252.20 19.68 936.77 177.12 27.60 916.32 220.80 16.92 243.65 118.44 28.44 346.97 156.42 45.76
	Electrical Pole Foundation Column SWD Road 13a Node-C0-137 Base Wall Slab Node-C0-176 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-144 Base Wall Slab Node-C0-145 Base Wall Slab Node-C0-162 Base	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 4 8 2 2 4 8 8 2 2 4 4 8 8 2 2 4 4 4 8 8 2 2 4 4	0.3 97 97 97 49.2 49.2 49.2 49.2 69 69 69 69 69 7 42.3 42.3 42.3 42.3 71.1 71.1	1.8	1.00 0.1 1.32 0.1 2.38 0.1 1.66 0.1 0.72 0.1 0.61	192.00 38.80 1024.32 252.20 19.68 936.77 177.12 27.60 916.32 220.80 16.92 243.65 118.44 28.44 346.97 156.42
	Electrical Pole Foundation Column SWD Road 13a Node-C0-137 Base Wall Slab Node-C0-176 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-143 Base Wall Slab Node-C0-144 Base Wall Slab Node-C0-145 Base Wall Slab Node-C0-145 Base Wall Slab Node-C0-162 Base Wall	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	640 4 8 2 4 4 8 2 2 4 4 8 2 2 4 4 8 8 2 2 4 4 8 8 2 2 4 4 8 8 2 2 4 8 8 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.3 97 97 97 49.2 49.2 49.2 49.2 49.2 69 69 69 69 69 69 22.3 42.3 42.3 42.3 71.1 71.1 71.1 71.1 114.4	1.8 1.6 1.4	1.00 0.1 1.32 0.1 2.38 0.1 1.66 0.1 0.72 0.1 0.61 0.1	192.00 38.80 1024.32 252.20 19.68 936.77 177.12 27.60 916.32 220.80 16.92 243.65 118.44 28.44 346.97 156.42 45.76 1116.54

Sr. No.	Description	Unit	No's	L	в	н	Qty.
	Slab Node-CO-141	Sqm	2	54.8	0.8		87.68
	Base	Sqm	4	37.7		0.1	15.08
	Wall	Sqm	8	37.7		0.74	223.18
	Slab	Sqm	2	37.7	0.8		60.32
	Node-CO-139 Base	Sqm	4	46.3		0.1	18.52
	Wall	Sqm	8	46.3		0.83	307.43
	Slab	Sqm	2	46.3	0.8		74.08
	Node-CO-146 Base	Sqm	4	105.9		0.1	42.36
	Wall	Sqm	8	105.9		0.67	567.62
	Slab	Sqm	2	105.9	0.8		169.44
	Node-CO-147 Base	Sqm	4	69.1		0.1	27.64
	Wall	Sqm	8	69.1		0.82	453.30
	Slab	Sqm	2	69.1	0.8		110.56
	Node-CO-148 Base	Sqm	4	117.7		0.1	47.08
	Wall	Sqm	8	117.7		1.1	1035.76
	Slab	Sqm	2	117.7	1		235.40
	Node-CO-149 Base	Sqm	4	83.7		0.1	33.48
	Wall	Sqm	8	83.7		1.45	970.92
	Slab	Sqm	2	83.7	1	-	167.40
	Node-CO-140	Sqm		64.8		0.4	25.92
	Base Wall	Sqm Sqm	4	64.8		0.1	404.35
	Slab	Sqm	2	64.8	0.8	5 5	103.68
	Node-CO-150			00.4			10.11
	Base Wall	Sqm Sqm	4	26.1 26.1		0.1	10.44 352.87
	Slab	Sqm	2	26.1	1	1.03	52.20
	Node-CO-151						
	Base Wall	Sqm Sqm	4	32 32		0.1	12.80 471.04
	Slab	Sqm	2	32	1	1.04	64.00
	Road 13b Node-CO-132						
	Base	Sqm	4	175.7		0.1	70.28
	Wall	Sqm	8	175.7		1.485	2087.32
	Slab	Sqm	2	175.7	1.6		562.24
	Node-CO-125 Base	Sqm	4	74.3		0.1	29.72
	Wall	Sqm	8	74.3		1.02	606.29
	Slab	Sqm	2	74.3	1.5		222.90
	Node-CO-152 Base	Sqm	4	93.8		0.1	37.52
	Wall	Sqm	8	93.8		0.995	746.65
	Slab	Sqm	2	93.8	1.5		281.40
	Node-CO-135 Base	Sqm	4	86.4		0.1	34.56
	Wall	Sqm	8	86.4		0.72	497.66
	Slab	Sqm	2	86.4	1.5		259.20
	Node-CO-134 Base	Sqm	4	81.4		0.1	32.56
	Wall	Sqm	8	81.4		1.13	735.86
	Slab	Sqm	2	81.4	1.6		260.48
	Node-CO-133 Base	Corre	4	71.9		0.1	28.76
	Wall	Sqm Sqm	8	71.9		1.33	765.02
	Slab	Sqm	2	71.9	1.6		230.08
	Node-CO-131	0		04.5		0.4	07.00
	Base Wall	Sqm Sqm	4	94.5 94.5		0.1	37.80 1134.00
	Slab	Sqm	2	94.5	1.2	1.0	226.80
	Node-CO-160						
	Base Wall	Sqm Sqm	4	36.5 36.5		0.1	14.60 607.36
	Slab	Sqm	2	36.5	1.2	2.00	87.60
	Node-CO-128						
	Base Wall	Sqm Sqm	4	121.4 121.4		0.1	48.56 2292.03
	Slab	Sqm	2	121.4	1.2	2.30	2292.03
	Node-CO-178						
	Base	Sqm	4	57.3		0.1	22.92
	Wall Slab	Sqm Sqm	8	57.3 57.3	1.1	0.8	366.72 126.06
		Juli	<u> </u>	51.5	1.1		120.00
	Node-CO-154						
	Node-CO-154 Base	Sqm	4	52.8		0.1	21.12
	Node-CO-154 Base Wall	Sqm	8	52.8	4 5	0.1 2.59	1094.02
	Node-CO-154 Base Wall Slab				1.5		21.12 1094.02 158.40
	Node-CO-154 Base Wall	Sqm	8	52.8	1.5		1094.02

No.	Description	Unit	No's	L	В	н	Qty.
	Node-CO-126 Base	Sqm	4	81.8		0.1	32.72
	Wall	Sqm	8	81.8		1.07	700.21
	Slab	Sqm	2	81.8	1.5		245.40
	Road 12						
	Node-CO-179						
	Base	Sqm	4	56.7		0.1	22.68
	Wall	Sqm	8	56.7	1.0	1.215	551.12
	Slab Node-CO-181	Sqm	2	56.7	1.2		136.08
	Base	Sqm	4	301.2		0.1	120.48
	Wall	Sqm	8	301.2		1.71	4120.42
	Slab	Sqm	2	301.2	1		602.40
	Node-CO-180 Base	Sqm	4	114.7		0.1	45.88
	Wall	Sqm	8	114.7		1.245	1142.4
	Slab	Sqm	2	114.7	1		229.40
	Road 7e						
	Node-CO-61	Carra	-	45		0.1	2.00
	Base	Sqm Sqm	2	15 15		0.1	<u>3.00</u> 45.30
	Slab	Sqm	1	15	1.2	0.100	18.00
	Node-CO-63					_	
	Base	Sqm	2	43		0.1	8.60
	Wall Slab	Sqm Sqm	4	43 43	0.9	0.795	136.74 38.70
	Node-CO-62		<u> </u>		5.5		30.10
	Base	Sqm	2	57.8		0.1	11.56
	Wall State	Sqm	4	57.8		0.79	182.65
	Slab Node-CO-60	Sqm	1	57.8	0.9		52.02
	Base	Sqm	2	58.7		0.1	11.74
	Wall	Sqm	4	58.7		0.72	169.06
	Slab	Sqm	1	58.7	0.9		52.83
	Node-CO-59 Base	Sqm	2	64.3		0.1	12.86
	Wall	Sqm	4	64.3		0.71	182.61
	Slab	Sqm	1	64.3	0.9		57.87
	Node-CO-52						
	Base	Sqm Sqm	2	43.1 43.1		0.1	<u>8.62</u> 225.84
	Slab	Sqm	4	43.1	1	1.31	43.10
	Node-CO-54						
	Base	Sqm	2	72.6		0.1	14.52
	Wall Slab	Sqm Sqm	4	72.6	1.2	1.5	435.60
	Node-CO-53	John	· · · ·	12.0	1.2		07.12
	Base	Sqm	2	50.2		0.1	10.04
	Wall	Sqm	4	50.2		0.88	176.70
	Slab Node-CO-58	Sqm	1	50.2	0.9		45.18
	Base	Sqm	2	132.1		0.1	26.42
	Wall	Sqm	4	132.1		0.655	346.10
	Slab	Sqm	1	132.1	0.9		118.89
	Road 7b						
	Node-CO-29 Base	Sqm	4	159.8		0.15	95.88
	Wall	Sqm	8	159.8		0.15	3835.2
	Slab	Sqm	2	159.8	1.2		383.52
	Node-CO-87	0.5	<u> </u>				
	Base	Sqm Sqm	4	95.4 95.4		0.15	57.24 2289.6
	Slab	Sqm	2	95.4	1.2	5	2289.0
	Balmatta Road						
	Foundation						
	RHS-D12 RHS-D12A	Sqm Sqm	2	381 100	0.2		152.40 40.00
	LHS-D12A	Sqm	2	481	0.2		192.40
	Wall						
	RHS-D12	Sqm	4	381		0.41	624.84
	RHS-D12A LHS-D11	Sqm Sqm	4	100 481		0.56	224.00
	Top Slab-Bottom	Sym	4	401		1.38	2005.1
	RHS-D12	Sqm	1	381	1		381.00
	RHS-D12A	Sqm	1	100	1.4		140.00
	LHS-D11 Tap Slab Sides	Sqm	1	481	1		481.00
	Top Slab-Sides RHS-D12	Sqm	2	381		0.2	152.40
	RHS-D12A	Sqm	2	100		0.2	40.00
	LHS-D11	Sqm	2	481		0.2	192.40
	Box Culvert						
	7b-Hampankatta to Milagres Cross Road						
	Box Culvert-Slab	Sqm	2	20	1		40.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Box Culvert-Wall	Sqm	4		1		80.00
	Sides	Sqm	4	4	0.20		3.20
	7e-Attavar Road-Mother theresa Road to Nandiguda Road Box Culvert-Slab	Sqm	4	12	1		48.00
	Box Culvert-Wall	Sqm	8		1		96.00
		Sqm	8		0.20		6.40
	13a-KRR Road-PVS Circle to Arya Samaj Road						
	Box Culvert-Slab	Sqm	8		1.5		300.00
	Box Culvert-Wall	Sqm	16		1.5		600.00
		Sqm	16	6	0.20		19.20
	13b-KRR Road-PVS Circle to Hampankatta						
	Box Culvert-Slab	Sqm	8	25	1.5		300.00
	Box Culvert-Wall	Sqm	8	25	1.5		300.00
		Sqm	8	6	0.20		9.60
	12-Bunts Hostel Road Box Culvert-Slab	Sqm	4	14	1.5		84.00
	Box Culvert-Slab	Sqm	4		1.5		84.00
		Sqm	4		0.20		4.80
		Sqm		Total Qty.			52421.88
19	KSRB 4.9.2 :Providing T.M.T steel reinforcement for RCC work including straighting,cutting,bending,hooking,placing in position,lapping and/or welding wherever required,tying with binding wire and anchoring to thr adjoing members wherever necessary complete as per design (laps,hooks and wastage shall not be measured and paid) cost of materials,labour,HOM of machinary complete as per specifications.Specification No. KBS4.6.3. do with TMT bars Fe500 (SI No : 4.46.2 of KPWD 18-19)			Cum	Kg/Cum	Кg	MT
	Electrical Pole-Pedstal-Footing Electrical Pole-Pedstal-Column	MT MT	1		50.00		0.50
	SWD	MT	1		50.00	650489.09	0.72
	Electrical Chamber	MT	1	-	80.00		68.54
	Footpath Beam	MT	1				5.86
	Box Culvert	MT	1		70.00		21.62
		MT		9467.65		Total	747.73
	Concrete Pavement Layer						
20	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)						
	Pavement 7b-Hampankatta to Milagres Cross Road						
	Ch.20.0 to Ch.120.0	Cum	1	100	12.9	0.15	193.50
	Road towards Wenlock Hospital	Cum	1	20	12.5	0.15	37.50
	7e-Milagres Nandigidda Road						
	Ch.0.00 to Ch.330.0 Balmatta Road	Cum	1	330	5	0.15	247.50
	LHS						
	Ch.0.0 to Ch.40.0	Cum	1	44.86	3.63	0.5	81.42
	LHS						
	Ch.60.0 to ch.320.0	Cum	1	244	2.7	0.5	329.40
	LHS						40.00
	Ch.500.0 to ch.531.0	Cum	1	37.7	0.71	0.5	13.38
	13a-PVS Circle to Arya Samaj Road RHS						
	Ch.100.0 to Ch.540.0	Cum	1	480	3.69	0.15	265.68
	LHS						
	Ch.100.0 to Ch.570.0	Cum	1	470	1.97		138.89
		Cum				Total	1307.27
	KODDD M000 4 Construction of dry loss sectors to sector with M45 - 11						
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)						
	7b-Hampankatta to Milagres Cross Road	0		400	40.0	0.10	100.00
	7b-Hampankatta to Milagres Cross Road Ch.20.0 to Ch.120.0 Road towards Wenlock Hospital	Cum Cum	1		12.9 12.5		129.00 25.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.0.00 to Ch.330.0	Cum	1	330	5	0.10	165.00
	Balmatta Road LHS						
	Ch.0.0 to Ch.40.0	Cum	1	44.86	3.63	0.10	16.28
	LHS Ch.60.0 to ch.320.0	Cum	1	244	2.7	0.10	65.88
	LHS	Oum		277	2.1	0.10	00.00
	Ch.500.0 to ch.531.0	Cum	1		0.71		2.68
	Humpankatta Junction and Balmatta Road 13a-PVS Circle to Arya Samaj Road	Cum	1	410	6.35	0.10	260.35
	RHS						
	Ch.100.0 to Ch.540.0	Cum	1	480	3.69	0.10	177.12
	LHS Ch.100.0 to Ch.570.0	Cum	1	470	1.97	0.10	92.59
		Cum		Total Qty.	1.07	0.10	1349.50
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						
	7e-Milagres Nandigudda Road						
	RHS Ch.20.00 to Ch.70.00	Cum	1.00	50.00	0.57	0.10	2.85
	Ch.70.00 to Ch.142.00	Cum	1.00	72.00	0.79	0.10	5.70
	Ch.147.00 to Ch.172.00	Cum	1.00	25.00	0.75	0.10	1.87
	Ch.40.00 to Ch.150.00	Cum	1.00	110.00	0.74	0.10	8.10
	Bunts Hostel Road	-					
	LHS Ch.120.0 to Ch.200.0	Cum	1.00	80.00	1.08	0.10	8.60
	RHS	Cum	1.00	80.00	1.08	0.10	8.60
	Ch.168.0 to Ch. 290.0	Cum	1.00	122.00	2.49	0.10	30.38
	13b-Hampankatta to PVS Circle LHS						
	Ch.185.0 to Ch.250.0	Cum	1.00	65.00	1.88	0.10	12.22
	Ch.450.0 to Ch.590.0	Cum	1.00	140.00	1.79	0.10	25.06
	Box Culvert 7b-Hampankatta to Milagres Cross Road						
	Box Culvert-Slab	Cum	2	20	1	0.10	4.00
	7e-Attavar Road-Mother theresa Road to Nandiguda Road Box Culvert-Slab	Cum	4	12	1	0.10	4.80
	13a-KRR Road-PVS Circle to Arya Samaj Road	Cum	4	12	1	0.10	4.00
	Box Culvert-Slab	Cum	8	25	1.5	0.10	30.00
	13b-KRR Road-PVS Circle to Hampankatta Box Culvert-Slab	Cum	8	25	1.5	0.10	30.00
	12-Bunts Hostel Road	Cum	0	20	1.5	0.10	50.00
	Box Culvert-Slab	Cum	4	14	1.5	0.10	8.40
						Total	171.98
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)						
	Road-7b-Hampankatta to Milagres 1st Cross Lane LHS	0	4.00	200.00	0.54	0.40	F0.00
	Road-7b-Hampankatta to Milagres 1st Cross Lane	Cum	1.00	200.00	2.54	0.10	50.80
	Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0	Cum	1.00		2.54		50.80
	Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0	Cum	1.00	30.00	5.37	0.10	16.10
	Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0					0.10	
	Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS	Cum	1.00	30.00 110.00	5.37	0.10	16.10 28.20
	Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS LHS Ch.25.00 to Ch.45.00	Cum Cum Cum	1.00	30.00 110.00 20.00	5.37 2.56 4.35	0.10	16.10 28.20 8.70
	Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS	Cum	1.00	30.00 110.00 20.00	5.37	0.10	16.10 28.20
	Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.25.00 to Ch.30.00 RHS Ch.25.00 to Ch.330.00	Cum Cum Cum	1.00	30.00 110.00 20.00 175.00	5.37 2.56 4.35	0.10 0.10 0.10 0.10 0.10	16.10 28.20 8.70
	Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.90.0 Ch.10.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.90.0 Ch.155.00 to Ch.30.00 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 13a-PVS Circle to Arya Samaj Junction	Cum Cum Cum Cum	1.00 1.00 1.00 1.00	30.00 110.00 20.00 175.00	5.37 2.56 4.35 3.83	0.10 0.10 0.10 0.10 0.10	16.10 28.20 8.70 66.99
	Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.25.00 to Ch.30.00 RHS Ch.25.00 to Ch.330.00	Cum Cum Cum Cum	1.00 1.00 1.00 1.00	30.00 110.00 20.00 175.00 160.00	5.37 2.56 4.35 3.83	0.10 0.10 0.10 0.10 0.10 0.10	16.10 28.20 8.70 66.99

Sr. No.	Description	Unit	No's	L	в	н	Qty.
	Ch.285.0 to Ch.390.0	Cum	1.00	105.00	2.21	0.10	23.20
	Ch.395.0 to Ch.455.0 Ch.460.0 to ch.545.0	Cum Cum	1.00	60.00 85.00	1.42 2.39	0.10	8.50 20.30
	Ch.580.0 to Ch.640.0	Cum	1.00	60.00	3.20	0.10	19.20
	Ch.640.0 to Ch.800.0	Cum	1.00	160.00	2.06	0.10	33.00
	Ch.805.0 to Ch.860.0	Cum	1.00	55.00	2.36	0.10	13.00
	Ch.860.0 to Ch.920.0	Cum	1.00	60.00	2.68	0.10	16.10
	Ch.925.0 to ch.960.0	Cum	1.00	35.00	2.86	0.10	10.00
	Ch.960.0 to Ch.1060.0 Ch.1060 to Ch.1110.0	Cum Cum	1.00	100.00 50.00	2.61	0.10	26.10 20.10
	LHS-Compound Side Paver	Cum	1.00	50.00	4.02	0.10	20.10
	Ch.10.00 to Ch.60.00	Cum	1.00	50.00	2.46	0.10	12.30
	Ch.60.00 to Ch.130.0	Cum	1.00	70.00	1.80	0.10	12.60
	Ch.130.0 to Ch.200.0	Cum	1.00	70.00	2.66	0.10	18.60
	Ch.235.0 to Ch.270.0	Cum	1.00	35.00	1.03	0.10	3.60
	Ch.490.0 to Ch.540.0	Cum	1.00	50.00	0.96	0.10	4.80
	Ch.650.0 to Ch.800.0 Ch.925.00 to Ch.950.0	Cum Cum	1.00	150.00 25.00	2.57	0.10	38.60 4.70
	Ch.925.00 to Ch.950.0	Cum	1.00	90.00	6.23	0.10	<u>4.70</u> 56.10
	RHS	Odin	1.00	50.00	0.20	0.10	50.10
	Ch.0.0 to Ch.320.0	Cum	1.00	320.00	2.28	0.10	72.80
	Ch.330.0 to Ch.510.0	Cum	1.00	180.00	2.06	0.10	37.00
	Ch.510.0 to Ch.538.0	Cum	1.00	28.00	2.07	0.10	5.80
	Ch.540.0 to Ch.578.0	Cum	1.00	38.00	1.74	0.10	6.60
	Ch.580.0 to Ch.660.0	Cum	1.00	80.00	3.21	0.10	25.70
	Ch.680.0 to Ch.750.0	Cum	1.00	70.00	3.53	0.10	24.70
	Ch.750.0 to Ch.1020.0 Ch.1025.0 to Ch.1060.0	Cum Cum	1.00	270.00 35.00	1.60	0.10	43.30 3.80
	Ch.1025.0 to Ch.1060.0	Cum	1.00	40.00	1.09	0.10	3.80
	RHS-Compound Side Paver		1.00	-0.00	1.00	0.10	1.40
	Ch.0.0 to Ch.210.0	Cum	1.00	210.00	1.92	0.10	40.40
	Ch.230.0 to Ch.290.0	Cum	1.00	60.00	0.63	0.10	3.80
	Ch.325.0 to Ch.390.0	Cum	1.00	65.00	1.58	0.10	10.30
	Ch.470.0 to Ch.510.0	Cum	1.00	40.00	4.25	0.10	17.00
	Ch.515.0 to Ch.535.0	Cum	1.00	20.00	2.40	0.10	4.80
	CH.540.0 to Ch.575.0	Cum	1.00	35.00	3.23	0.10	11.30
	Ch.830.0 to Ch.970.0 13b-Hampankatta to PVS Circle	Cum	1.00	140.00	7.20	0.10	100.80
	LHS						
	Ch.10.0 to Ch.180.0	Cum	1.00	170.00	2.10	0.10	35.70
	Ch.255.0 to Ch.345.0	Cum	1.00	90.00	2.62	0.10	23.60
	Ch.350.0 to Ch.440.0	Cum	1.00	90.00	2.30	0.10	20.70
	Ch.590.0 to Ch.680.0	Cum	1.00	90.00	2.24	0.10	20.20
	Ch.680.0 to Ch.845.0	Cum	1.00	165.00	2.13	0.10	35.10
	Ch.840.0 to Ch.880.0	Cum	1.00	40.00	4.58	0.10	18.30
	Ch.880.0 to Ch.900.0 Ch.900.0 to Ch.965.0	Cum Cum	1.00	20.00	8.25	0.10	16.50 15.70
	Ch.965.0 to Ch.1110.0	Cum	1.00	145.00	2.42	0.10	31.60
	Ch.1110.0 to Ch.1120.0	Cum	1.00	10.00	8.13	0.10	8.13
	Compound Wallside Paver Block						
	Ch.70.0 to Ch.180.0	Cum	1.00	110.00	2.96	0.10	32.60
	Ch.255.0 to Ch.340.0	Cum	1.00	85.00	1.89	0.10	16.10
	Ch.355.0 to Ch.410.0	Cum	1.00	55.00	2.82	0.10	15.50
	Ch.590.0 to Ch.680.0	Cum	1.00	90.00	4.15	0.10	37.31
	Ch.680.0 to Ch.730.0 Ch.820.0 to Ch.840.0	Cum Cum	1.00	50.00 20.00	1.32 3.75	0.10	6.60 7.50
	Ch.840.0 to Ch.880.0	Cum	1.00	40.00	3.83	0.10	15.30
	Ch.880.0 to Ch.900.0	Cum	1.00	20.00	8.25	0.10	16.50
	Ch.900.0 to Ch.935.0	Cum	1.00	35.00	2.91	0.10	10.20
	Ch.900.0 to Ch.930.0	Cum	1.00	30.00	3.40	0.10	10.20
	Ch.970.0 to Ch.1040.0	Cum	1.00	70.00	7.20	0.10	50.40
	Ch.1060 to Ch.1110.0	Cum	1.00	50.00	2.90	0.10	14.50
	RHS			400.00	4 40	0.10	40.47
	Ch.10.0 to Ch.140.0	Cum Cum	1.00	130.00 360.00	<u>1.40</u> 2.11	0.10	18.17 75.80
	Ch.150.0 to Ch.510.0 Ch.515.0 to Ch.630.0	Cum	1.00	115.00	2.11	0.10	29.20
	Ch.630.0 to Ch.1090.0	Cum	1.00	460.00	1.83	0.10	84.20
	Compound Wallside Paver Block		1.00		1.00	0.10	51.20
	Ch.160.0 to Ch.270.0	Cum	1.00	110.00	0.72	0.10	7.90
	Ch.270.0 to Ch.475.0	Cum	1.00	205.00	2.32	0.10	47.60
	Ch.480.0 to Ch.505.0	Cum	1.00	25.00	0.84	0.10	2.10
	Ch.515.0 to Ch.525.0	Cum	1.00	10.00	0.80	0.10	0.80
	Ch.590.0 to Ch.630.0	Cum	1.00	40.00	3.20	0.10	12.80
	12-Bunts Hostel Road LHS						
	Ch.10.0 to Ch.118.00	Cum	1.00	108.00	3.78	0.10	40.82
	Ch.200.0 to Ch.440.0	Cum	1.00	240.00	2.45	0.10	58.70
	Ch.450.0 to Ch.478.0	Cum	1.00	240.00	3.54	0.10	9.90
	RHS						
	Ch.10.0 to Ch.165.0	Cum	1.00	155.00	3.41	0.10	52.86
	Ch.300.0 to Ch.470.0	Cum	1.00	170.00	3.78	0.10	64.26
	Balmatta Road-LHS						
	Ch.0.0 to Ch.90.0	Sqm	1.00	79.00	2.20	0.10	17.38
		Sqm	1.00	100.00	4.44	0.10	44.40
	Ch. 90.0 to Ch.190.00				4.04		0.07
	Landscape Deduction Compound Wall Side-Ch.100 to Ch.185.0	Sqm Sqm Sqm	-1.00	81.72 85.00	1.01 2.39	0.10	-8.25 20.28

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch. 360 to Ch.470 Ch.470.0 to Ch.530.0	Sqm	1.00		2.20	0.10	33.22
	Cn.470.0 to Cn.530.0	Sqm	1.00	80.00	2.20	0.10	17.60
	Balmatta Road-RHS						
	Ch.0.0 to Ch.130	Sqm	1.00	130.00	2.65	0.10	34.45
	Ch.135.0 to Ch.205.0 Ch.200 to Ch.360.0	Sqm Sqm	1.00	70.00	2.34	0.10	16.38 53.12
	Ch.360.0 to Ch.530.0	Sqm	1.00		3.26		
	Deduction of Manhole Cover	Sqm	-640.00	0.60	0.45		-17.28
						Total	2300.80
24	KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per MORTH specifications Clause 602.with M40 @420Kg per cum Cement,C.A,0.67 cum F.A.044Cum (SI No : 22.2.2 of KPWD 18-19)						
	7b-Hampankatta to Milagres Cross Road			100	10.0	0.07	
	Ch.20.0 to Ch.120.0 Road towards Wenlock Hospital	Cum Cum	1		12.9 12.5	0.27	348.30 67.50
	7e-Milagres Nandigidda Road Ch.0.00 to Ch.330.0	Cum	1	330	5	0.26	429.00
	13a-PVS Circle to Arya Samaj Road						
	Ch.0.0 to Ch.680.0 (Consider 5% Pavement Repaire Work) 13a-Pvs Circle to Arya Samaj Road	Cum	0.05	680	14	0.27	128.52
	RHS Ch.100.0 to Ch.540.0	Cum	1	480	3.69	0.27	478.22
	LHS						
	Ch.100.0 to Ch.570.0 13b-Hamapankatta to PVS Circle	Cum	1	470	1.97	0.27	249.99
	Ch.0.0 to Ch.1120.0 (Consider 5% Pavement Repaire Work)	Cum	0.05	1120	11.6	0.27	175.39
	12-Bunts Hostel Road Ch.0.0 to Ch.478.0 (Consider 5% Pavement Repaire Work)	Cum	0.05	478	10.4	0.27	67.11
	Humpankatta Junction and Balmatta Road	Cum	1	410	6.35	0.30	781.05
	Balmatta Road						
	LHS Ch.0.0 to Ch.40.0	Cum	1	44.86	3.63	0.30	48.85
	LHS						
	Ch.60.0 to ch.320.0 LHS	Cum	1	244	2.7	0.30	197.64
	Ch.500.0 to ch.531.0	Cum Cum	1	37.7	0.71	0.30 Total	8.03 2979.61
	Providing and placing joint sealant compound of cold polysulphide in the						
25	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)						
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0						
25	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) 13a-PVS Circle to Arya Samaj Road Ch .0.0 to Ch.680.0 Along the Road	Rmt	4				
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0 Along the Road Across the Road	Rmt Rmt	4 136	680 14			2720.00 1904.00
25	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) 13a-PVS Circle to Arya Samaj Road Ch .0.0 to Ch.680.0 Along the Road						
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road	Rmt Rmt	136	14			1904.00 4480.00
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road Across the Road	Rmt	136	14			1904.00 4480.00
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road	Rmt Rmt	136	14			1904.00 4480.00
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road Across the Road Balmatta Road	Rmt Rmt Rmt Rmt	136 4 280 10	14 1120 11.6 3.63			1904.00 4480.00 3248.00 36.30
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road Across the Road Balmatta Road LHS Ch.0.0 to Ch.40.0	Rmt Rmt Rmt	136 4 280	14 1120 11.6 3.63			1904.00 4480.00 3248.00
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road Across the Road Balmatta Road LHS	Rmt Rmt Rmt Rmt	136 4 280 10	14 1120 11.6 3.63			1904.00 4480.00 3248.00 36.30
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road Across the Road Balmatta Road LHS Ch.0.0 to Ch.40.0 LHS	Rmt Rmt Rmt Rmt Rmt	136 4 280 10 1	14 1120 11.6 3.63 44.86 2.7			1904.00 4480.00 3248.00 36.30 44.86
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road Across the Road Balmatta Road LHS Ch.0.0 to ch.320.0	Rmt Rmt Rmt Rmt Rmt Rmt Rmt	136 4 280 10 1 55 1	14 1120 11.6 3.63 44.86 2.7 244			1904.00 4480.00 3248.00 36.30 44.86 148.50 244.00
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road Across the Road Balmatta Road LHS Ch.0.0 to Ch.40.0 LHS	Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt	136 4 280 10 1 1 55 1 9	14 1120 11.6 3.63 44.86 2.7 244 0.71			1904.00 4480.00 3248.00 36.30 44.86 148.50 244.00 6.39
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road Across the Road Balmatta Road LHS Ch.0.0 to ch.320.0	Rmt Rmt Rmt Rmt Rmt Rmt Rmt	136 4 280 10 1 55 1	14 1120 11.6 3.63 44.86 2.7 244 0.71			1904.00 4480.00 3248.00 36.30 44.86 148.50 244.00
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road Across the Road HS Ch.60.0 to ch.320.0 LHS Ch.60.0 to ch.531.0 12-Bunts Hostel Road Ch.0.0 to Ch.478.0	Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt	136 4 280 10 1 55 1 9 1	14 1120 11.6 3.63 44.86 2.7 244 0.71 37.7			1904.00 4480.00 3248.00 36.30 44.86 148.50 244.00 6.39 37.70
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road Across the Road Balmatta Road LHS Ch.60.0 to ch.320.0 LHS Ch.60.0 to ch.320.0 LHS Ch.500.0 to ch.531.0 12-Bunts Hostel Road Ch.0.0 to Ch.478.0 Along the Road	Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt	136 4 280 10 10 55 55 1 1 9 9 1 1	14 1120 11.6 3.63 44.86 2.7 244 0.71 37.7 478			1904.00 4480.00 3248.00 36.30 44.86 148.50 244.00 6.39 37.70 1912.00
25	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) 13a-PVS Circle to Arya Samaj Road Ch.0.0 to Ch.680.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road Across the Road 13b-Hamapankatta to PVS Circle Ch.0.0 to Ch.1120.0 Along the Road Across the Road HS Ch.60.0 to ch.320.0 LHS Ch.60.0 to ch.531.0 12-Bunts Hostel Road Ch.0.0 to Ch.478.0	Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt	136 4 280 10 1 55 1 9 1	14 1120 11.6 3.63 44.86 2.7 244 0.71 37.7 478			1904.00 4480.00 3248.00 36.30 44.86 148.50 244.00 6.39

Sr. No.	Description	Unit	No's	L	В	н	Qty.
26	KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints longitudinal joints and expansion joints in concrete pavement using epoxy mortar concrete complete as per specifications.Morth specification No.3005.1						
	(SI No : 35.8 of KPWD 18-19)						
	Consider Same Qty of Joint Filling@5% of Joint Filler	Rmt		Total Qty.			78.90
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)						
	Balmatta Road Ch.30.0 to Ch.136	Rmt	2	106			212.00
	Ch.140.0 to 220.00	Rmt	2				160.00
	Ch.230.0 to 340.00	Rmt	2				220.00
	Ch.380.0 to Ch.528.0	Rmt	2	148			296.00
	Consider Provisional Qty.	Rmt	20				20.00
		Rmt No's		Total Qty.		Sub Total	908.00 2270
	Vol of one kerb stone=0.102cum,Total vol of kerb=	Cum		rotar oty.			232
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)						
	Road-7b-Hampankatta to Milagres 1st Cross Lane LHS						
	Ch.20.00 to Ch.220.0	Rm	1	200			200.00
	RHS						
	Ch.20.00 to Ch.50.0	Rm	1				30.00
	Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0	Rm Rm	1				40.00
	7e-Milagres Nandigidda Road	NIII		110			110.00
	LHS						
	Ch.25.00 to Ch.45.00	Rm	1				20.00
	Ch.155.00 to Ch.330.00	Rm	1	175			175.00
	RHS Ch.170.00 to Ch.330.00	Rm	1	160			160.00
	13a-PVS Circle to Arya Samaj Junction						
	LHS-Paver on Footpath Ch.0.0 to Ch.60.0	Rm	1	60			60.00
	Ch.62.00 to Ch.128.0	Rm	1				66.00
	Ch.132.0 to Ch.280.0	Rm	1				148.00
	Ch.285.0 to Ch.390.0	Rm	1				105.00
	Ch.395.0 to Ch.455.0	Rm	1				60.00
	Ch.460.0 to ch.545.0 Ch.580.0 to Ch.640.0	Rm Rm	1				<u> </u>
	Ch.640.0 to Ch.800.0	Rm	1				160.00
	Ch.805.0 to Ch.860.0	Rm	1				55.00
	Ch.860.0 to Ch.920.0	Rm	1				60.00
	Ch.925.0 to ch.960.0	Rm	1				35.00
	Ch.960.0 to Ch.1060.0	Rm Rm	1				100.00
	Ch.1060 to Ch.1110.0 RHS	Rm		50			50.00
	Ch.0.0 to Ch.320.0	Rm	1				320.00
_	Ch.330.0 to Ch.510.0	Rm	1				180.00
	Ch.510.0 to Ch.538.0	Rm	1				28.00
	Ch.540.0 to Ch.578.0 Ch.580.0 to Ch.660.0	Rm Rm	1				38.00 80.00
	Ch.680.0 to Ch.750.0	Rm	1				70.00
	Ch.750.0 to Ch.1020.0	Rm	1				270.00
	Ch.1025.0 to Ch.1060.0	Rm	1				35.00
	Ch.1070.0 to Ch.1110.0	Rm	1	40			40.00
	13b-Hampankatta to PVS Circle LHS					-	
	Ch.10.0 to Ch.180.0	Rm	1	170			170.00
	Ch.255.0 to Ch.345.0	Rm	1	90			90.00
	Ch.350.0 to Ch.440.0	Rm	1			_	90.00
	Ch.590.0 to Ch.680.0	Rm	1				90.00
	Ch.680.0 to Ch.845.0 Ch.840.0 to Ch.880.0	Rm Rm	1				<u>165.00</u> 40.00
	Ch.880.0 to Ch.900.0	Rm	1				20.00
	Ch.900.0 to Ch.965.0	Rm	1				65.00
	Ch.965.0 to Ch.1110.0	Rm	1	145			145.00
	Ch.1110.0 to Ch.1120.0	Rm	1	10			10.00
	RHS	P~	-	400			120.00
	Ch.10.0 to Ch.140.0 Ch.150.0 to Ch.510.0	Rm Rm	1			-	<u>130.00</u> 360.00
	Ch.515.0 to Ch.630.0	Rm	1				115.00
	Ch.630.0 to Ch.1090.0	Rm	1			1	460.00

	Description	Unit	No's	L	В	н	Qty.
	12-Bunts Hostel Road						
	LHS Ch.10.0 to Ch.118.00	Rm	1	108			108.00
	Ch.200.0 to Ch.440.0	Rm	1	240			240.00
	Ch.450.0 to Ch.478.0	Rm	1	210			28.00
	RHS			-			
	Ch.10.0 to Ch.165.0	Rm	1	155			155.00
	Ch.300.0 to Ch.470.0	Rm	1	170			170.00
	Flush Footpath with Carriageway						
	7e-Milagres Nandigudda Road						
	RHS						
	Ch.20.00 to Ch.70.00	Rm	1	50.00			50.00
	Ch.70.00 to Ch.142.00 Ch.147.00 to Ch.172.00	Rm Rm	1	72.00			72.00
	LHS	Rm	0	25.00			25.00
	Ch.40.00 to Ch.150.00	Rm	1	110.00			110.00
	Bunts Hostel Road	T MIT	1	110.00			110.00
	LHS						
	Ch.120.0 to Ch.200.0	Rm	1	80.00			80.00
	RHS						
	Ch.168.0 to Ch. 290.0	Rm	1	122.00			122.00
	13b-Hampankatta to PVS Circle						
	LHS						
	Ch.185.0 to Ch.250.0	Rm	1	65.00			65.00
	Ch.450.0 to Ch.590.0	Rm	1	140.00			140.00
	Balmatta Road-LHS			70.00			70.00
	Ch.0.0 to Ch.90.0	Rm	1	79.00			79.00
	Ch. 90.0 to Ch.190.00 Landscape	Rm Rm	1	100.00 81.72			100.00
	Compound Wall Side-Ch.100 to Ch.185.0	Rm	2	81.72			85.00
	Compound Wall Side-Ch. 100 to Ch. 185.0 Ch.190 to Ch.340	Rm	1	150.00		-	150.00
	Ch. 360 to Ch.470	Rm	1	150.00			151.00
	Ch.470.0 to Ch.530.0	Rm	1	80.00		1	80.00
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	Balmatta Road-RHS						
	Ch.0.0 to Ch.130	Rm	1	130.00			130.00
	Ch.135.0 to Ch.205.0	Rm	1	70.00			70.00
	Ch.200 to Ch.360.0	Rm	1	160.00			160.00
	Ch.360.0 to Ch.530.0	Rm	1	170.00			170.00
	Table Top paver Block						
	7b-Hampankatta to Milagres Cross Road	Rm	2	13.40			26.80
	7e-Attavar Road-Mother theresa Road to Nandiguda Road						
	9-Sturrock Road	Dee	0	14.00			00.00
	13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta	Rm Rm	6 5	14.80 14.80			88.80 74.00
_	12-Bunts Hostel Road	Rm	2	14.80			29.00
		NIII	2	14.50			29.00
	Traffic Island opp. Ocean Pearl Hotel	Rm	1	42.00			42.00
	PVS Circle -Traffic Island	Rm	1	12.00			12.00
	Bunts Hostel-Traffic Island	Rm	1	26.00			26.00
	Bunts Hostel-Traffic Island	Rm	1	26.00			26.00
	13a-PVS Circle to Arya Samaj Road-Traffic Island @Ch.1060.0	Rm	1	57.00			57.00
						Total=	7875.0
	C= A+B/0.45m(length of one Kerb Stone)	Nos				Total(C)	17500.0
	Vol of 1 Kerb=0.028 cum, Total Vol.=	Cum					490.00
	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						
9	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						
	finishing cutting, including cost of all materials, labour, hire charges of						
	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)						
	finishing cutting, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete						
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane	Rm	1	200			200.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS	Rm	1	0			200.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0	Rm	0	0 30			0.00 30.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0	Rm Rm	0 1 1	0 30 40			0.00 30.00 40.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0	Rm	0 1 1 1	0 30 40 110			0.00 30.00 40.00 110.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 12-Bunts Hostel Road	Rm Rm	0 1 1 1 0	0 30 40 110 0			0.00 30.00 40.00 110.00 0.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 12-Bunts Hostel Road LHS	Rm Rm Rm	0 1 1 1 0 0	0 30 40 110 0 0			0.00 30.00 40.00 110.00 0.00 0.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 12-Bunts Hostel Road LHS Ch.10.0 to Ch.118.00	Rm Rm Rm Rm	0 1 1 0 0 0	0 30 40 110 0 0 108			0.00 30.00 40.00 110.00 0.00 0.00 108.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.50.0 Ch.110.0 to Ch.220.0 12-Bunts Hostel Road LHS Ch.10.0 to Ch.118.00 Ch.20.0 to Ch.440.0	Rm Rm Rm Rm Rm	0 1 1 0 0 0 1 1	0 30 40 110 0 0 108 240			0.00 30.00 40.00 110.00 0.00 0.00 108.00 240.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.50.0 Ch.10.0 to Ch.20.0 12-Bunts Hostel Road LHS Ch.10.0 to Ch.118.00 Ch.10.0 to Ch.118.00 Ch.20.0 to Ch.440.0 Ch.450.0 to Ch.478.0	Rm Rm Rm Rm	0 1 1 0 0 0 1 1 1	0 30 40 110 0 0 108 240 28			0.00 30.00 40.00 110.00 0.00 108.00 240.00 28.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 12-Bunts Hostel Road LHS Ch.10.0 to Ch.118.00 Ch.20.0 to Ch.440.0 Ch.450.0 to Ch.478.0 RHS	Rm Rm Rm Rm Rm Rm	0 1 1 1 0 0 0 1 1 1 1 0	0 30 40 110 0 0 108 240 28 0			0.00 30.00 40.00 110.00 0.00 108.00 240.00 28.00 0.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.90.0 Ch.110.0 to Ch.220.0 12-Bunts Hostel Road LHS Ch.10.0 to Ch.118.00 Ch.20.0 to Ch.440.0 Ch.450.0 to Ch.478.0 RHS Ch.10.0 to Ch.165.0	Rm Rm Rm Rm Rm Rm Rm	0 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1	0 30 40 110 0 0 108 240 28 0 155			0.00 30.00 40.00 110.00 0.00 108.00 240.00 28.00 0.00 155.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 12-Bunts Hostel Road LHS Ch.10.0 to Ch.118.00 Ch.200.0 to Ch.440.0 Ch.450.0 to Ch.478.0 RHS Ch.10.0 to Ch.165.0 Ch.300.0 to Ch.470.0	Rm Rm Rm Rm Rm Rm	0 1 1 1 0 0 1 1 1 1 1 0 1 1	0 30 40 110 0 0 108 240 28 240 28 0 0 155 170			0.00 30.00 40.00 110.00 0.00 108.00 240.00 28.00 0.00 155.00 170.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 12-Bunts Hostel Road LHS Ch.10.0 to Ch.118.00 Ch.20.0 to Ch.440.0 Ch.450.0 to Ch.478.0 RHS Ch.10.0 to Ch.165.0 Ch.10.0 to Ch.165.0 Ch.300.0 to Ch.470.0 Flush Footpath with Carriageway	Rm Rm Rm Rm Rm Rm Rm	0 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1	0 30 40 110 0 0 108 240 28 0 155 170 0			0.00 30.00 40.00 0.00 0.00 108.00 28.00 0.00 155.00 170.00 0.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 12-Bunts Hostel Road LHS Ch.10.0 to Ch.118.00 Ch.200.0 to Ch.440.0 Ch.450.0 to Ch.478.0 RHS Ch.10.0 to Ch.165.0 Ch.300.0 to Ch.470.0	Rm Rm Rm Rm Rm Rm Rm	0 1 1 0 0 0 1 1 1 1 1 1 1 0	0 30 40 110 0 0 108 240 28 240 28 0 0 155 170			0.00 30.00 40.00 110.00 0.00 108.00 240.00 28.00 0.00 155.00 170.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.90.0 Ch.110.0 to Ch.20.0 12-Bunts Hostel Road LHS Ch.10.0 to Ch.118.00 Ch.10.0 to Ch.440.0 Ch.450.0 to Ch.478.0 RHS Ch.10.0 to Ch.165.0 Ch.300.0 to Ch.470.0 Flush Footpath with Carriageway 7e-Milagres Nandigudda Road	Rm Rm Rm Rm Rm Rm Rm	0 1 1 1 0 0 1 1 1 1 1 1 0 0 0 0	0 30 40 110 0 0 108 240 28 0 155 170 0 0 0 0			0.00 30.00 40.00 0.00 108.00 28.00 0.00 155.00 170.00 0.00 0.00 0.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 12-Bunts Hostel Road LHS Ch.10.0 to Ch.118.00 Ch.200.0 to Ch.440.0 Ch.450.0 to Ch.478.0 RHS Ch.10.0 to Ch.165.0 Ch.10.0 to Ch.165.0 Ch.300.0 to Ch.470.0 Flush Footpath with Carriageway 7e-Milagres Nandigudda Road RHS	Rm Rm Rm Rm Rm Rm Rm Rm	0 1 1 1 0 0 1 1 1 1 1 0 1 1 1 1 0 0 0 0	0 30 40 110 0 0 108 240 28 0 155 170 0 0 0 0 0			0.00 30.00 40.00 0.00 108.00 28.00 0.00 155.00 170.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.90.0 Ch.110.0 to Ch.20.0 12-Bunts Hostel Road LHS Ch.10.0 to Ch.118.00 Ch.20.0 to Ch.440.0 Ch.450.0 to Ch.478.0 RHS Ch.10.0 to Ch.165.0 Ch.300.0 to Ch.470.0 Flush Footpath with Carriageway 7e-Milagres Nandiguda Road RHS Ch.20.00 to Ch.70.00	Rm Rm Rm Rm Rm Rm Rm Rm Rm	0 1 1 0 0 0 1 1 1 1 0 0 1 1 1 0 0 0 0 1	0 30 40 110 0 108 240 28 0 155 170 0 0 0 50			0.00 30.00 40.00 0.00 0.00 108.00 240.00 28.00 0.00 155.00 170.00 0
	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) Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.10.0 to Ch.20.0 Ch.10.0 to Ch.20.0 Ch.10.0 to Ch.20.0 Ch.10.0 to Ch.40.0 Ch.10.0 to Ch.418.00 Ch.450.0 to Ch.478.0 RHS Ch.10.0 to Ch.478.0 RHS Ch.30.0 to Ch.478.0 RHS Ch.30.0 to Ch.478.0 RHS Ch.10.0 to Ch.148.0 Ch.30.0 to Ch.470.0 Flush Footpath with Carriageway 7e-Milagres Nandigudda Road RHS Ch.20.00 to Ch.70.00 Ch.70.00 to Ch.142.00	Rm Rm Rm Rm Rm Rm Rm Rm Rm Rm Rm	0 1 1 1 0 0 0 1 1 1 1 0 0 1 1 1 0 0 0 0	0 30 40 110 0 0 108 240 28 0 155 170 0 0 0 50 72			30.00 40.00 110.00 0.00 108.00 240.00 28.00 0.00 155.00 170.00 0.00 0.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	LHS Ch.120.0 to Ch.200.0	Rm	0	0 80			0.00 80.00
	RHS		0	0			0.00
	Ch.168.0 to Ch. 290.0	Rm	1	122			122.00
	13b-Hampankatta to PVS Circle		0	0			0.00
	LHS Ch.185.0 to Ch.250.0	Rm	0	0 65			0.00 65.00
	Ch.450.0 to Ch.590.0	Rm	1	140			140.00
	Table Top paver Block	T KITI	0	0			0.00
	7b-Hampankatta to Milagres Cross Road	Rm	2	13.4			26.80
	7e-Attavar Road-Mother theresa Road to Nandiguda Road						
	9-Sturrock Road						
	13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta	Rm Rm	6 5	14.8			88.80
	12-Bunts Hostel Road	Rm	2	14.0			29.00
		T NIT	0	0			0.00
	Traffic Island opp. Ocean Pearl Hotel	Rm	1	42			42.00
	PVS Circle -Traffic Island	Rm	1	12			12.00
	Bunts Hostel-Traffic Island	Rm	1	26			26.00
	Bunts Hostel-Traffic Island	Rm	1	26			26.00
	13a-PVS Circle to Arya Samaj Road-Traffic Island @Ch.1060.0	Rm	1	57			57.00 2127
	Total Qty.	Rm					2127
	C= A+B/0.45m(length of one Kerb Stone)	Nos.	-				4726
	Total Vol.= 0.0118	Cum					56
30	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-7b-Hampankatta to Milagres 1st Cross Lane LHS						
	Ch.20.00 to Ch.220.0	Sqm	1	200		0.27	53.00
	RHS					0.07	7.05
	Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0	Sqm Sqm	1	30 40		0.27	7.95
	Ch.110.0 to Ch.220.0	Sqm	1	110		0.27	29.15
	7e-Milagres Nandigidda Road	Sqiii		110		0.27	23.15
	LHS						
	Ch.25.00 to Ch.45.00	Sqm	1	20		0.27	5.30
	Ch.155.00 to Ch.330.00	Sqm	1	175		0.27	46.38
	RHS						
	Ch.170.00 to Ch.330.00	Sqm	1	160		0.27	42.40
	13a-PVS Circle to Arya Samaj Junction						
	LHS-Paver on Footpath Ch.0.0 to Ch.60.0	Sqm	1	60		0.27	15.90
	Ch.62.00 to Ch.128.0	Sqm	1	66		0.27	17.49
	Ch.132.0 to Ch.280.0	Sqm	1	148		0.27	39.22
	Ch.285.0 to Ch.390.0	Sqm	1	105		0.27	27.83
	Ch.395.0 to Ch.455.0	Sqm	1	60		0.27	15.90
	Ch.460.0 to ch.545.0	Sqm	1	85		0.27	22.53
	Ch.580.0 to Ch.640.0	Sqm	1	60		0.27	15.90
	Ch.640.0 to Ch.800.0	Sqm	1	160		0.27	42.40
	Ch.805.0 to Ch.860.0 Ch.860.0 to Ch.920.0	Sqm Sqm	1	55 60		0.27	14.58 15.90
	Ch.925.0 to ch.960.0	Sqm	1	35		0.27	9.28
	Ch.960.0 to Ch.1060.0	Sqm	1	100		0.27	26.50
	Ch.1060 to Ch.1110.0	Sqm	1	50		0.27	13.25
	RHS						
	Ch.0.0 to Ch.320.0	Sqm	1	320		0.27	84.80
	Ch.330.0 to Ch.510.0	Sqm	1	180		0.27	47.70
	Ch.510.0 to Ch.538.0	Sqm	1	28		0.27	7.42
	Ch.540.0 to Ch.578.0 Ch.580.0 to Ch.660.0	Sqm	1	38 80		0.27	10.07 21.20
	Ch.680.0 to Ch.660.0 Ch.680.0 to Ch.750.0	Sqm Sqm	1	70		0.27	18.55
	Ch.750.0 to Ch.1020.0	Sqm	1	270		0.27	71.55
	Ch.1025.0 to Ch.1060.0	Sqm	1	35		0.27	9.28
	Ch.1070.0 to Ch.1110.0	Sqm	1	40		0.27	10.60
	13b-Hampankatta to PVS Circle						
	LHS						
	Ch.10.0 to Ch.180.0	Sqm	1	170		0.27	45.05
	Ch.255.0 to Ch.345.0	Sqm	1	90		0.27	23.85
	Ch.350.0 to Ch.440.0 Ch.590.0 to Ch.680.0	Sqm Sqm	1	90 90		0.27	23.85 23.85
	Ch.680.0 to Ch.845.0	Sqm Sqm	1	165		0.27	43.73
	Ch.840.0 to Ch.880.0	Sqm	1	40		0.27	10.60
	Ch.880.0 to Ch.900.0	Sqm	1	20		0.27	5.30
	Ch.900.0 to Ch.965.0	Sqm	1	65		0.27	17.23
	Ch.965.0 to Ch.1110.0	Sqm	1	145		0.27	38.43
	Ch.1110.0 to Ch.1120.0	Sqm	1	10		0.27	2.65
	RHS						
	Ch.10.0 to Ch.140.0	Sqm	1	130		0.27	34.45
	Ch.150.0 to Ch.510.0	Sqm	1	360		0.27	95.40
	Ch.515.0 to Ch.630.0	Sqm	1	115		0.27	30.48

Sr. No.	Description	Unit	No's	L	в	н	Qty.
	12-Bunts Hostel Road						
	LHS	0		100		0.07	
	Ch.10.0 to Ch.118.00 Ch.200.0 to Ch.440.0	Sqm Sqm	1			0.27	28.62 63.60
	Ch.450.0 to Ch.478.0	Sqm	1			0.27	7.42
	RHS	Sqiii		20		0.27	1.42
	Ch.10.0 to Ch.165.0	Sqm	1	155		0.27	41.08
	Ch.300.0 to Ch.470.0	Sqm	1			0.27	45.05
	Balmatta Road-LHS						
	Ch.0.0 to Ch.90.0	Sqm	1	79		0.26	20.86
	Ch. 90.0 to Ch.190.00	Sqm	1			0.26	26.40
	Landscape	Sqm	2			0.26	43.15
	Compound Wall Side-Ch.100 to Ch.185.0	Sqm	1			0.26	22.44
	Ch.190 to Ch.340	Sqm	1			0.26	39.60
	Ch. 360 to Ch.470	Sqm	1			0.26	39.86
	Ch.470.0 to Ch.530.0	Sqm	1	80		0.26	21.12
	Balmatta Road-RHS						
	Ch.0.0 to Ch.130	Sqm	1	130		0.26	34.32
	Ch.135.0 to Ch.205.0	Sqm	1			0.20	18.48
	Ch.200 to Ch.360.0	Sqm	1			0.20	42.24
	Ch.360.0 to Ch.530.0	Sqm	1			0.26	44.88
		oqiii				0.20	11.00
	Flush Footpath with Carriageway						
	7e-Milagres Nandigudda Road						
	RHS						
	Ch.20.00 to Ch.70.00	Sqm	1			0.27	13.25
	Ch.70.00 to Ch.142.00	Sqm	1			0.27	19.08
	Ch.147.00 to Ch.172.00	Sqm	1	25		0.27	6.63
	LHS	_					02 · -
	Ch.40.00 to Ch.150.00	Sqm	1	110		0.27	29.15
	Bunts Hostel Road	1					
	LHS	0	-			0.07	04.00
	Ch.120.0 to Ch.200.0 RHS	Sqm	1	80		0.27	21.20
	Ch.168.0 to Ch. 290.0	Sqm	1	122		0.27	32.33
	13b-Hampankatta to PVS Circle	Sym	1	122		0.27	32.33
	LHS						
	Ch.185.0 to Ch.250.0	Sqm	1	65		0.27	17.23
	Ch.450.0 to Ch.590.0	Sqm	1			0.27	37.10
		oqiii				0.21	01110
	Traffic Island opp. Ocean Pearl Hotel	Sqm	1	42		0.27	11.13
	PVS Circle -Traffic Island	Sqm	1			0.27	3.18
	Bunts Hostel-Traffic Island	Sqm	1			0.27	6.89
	Bunts Hostel-Traffic Island	Sqm	1	26		0.27	6.89
	13a-PVS Circle to Arya Samaj Road-Traffic Island @Ch.1060.0	Sqm	1	57		0.27	15.11
	Bunts Hostel-Road Median Kerb	Sqm	2	450		0.27	238.50
	13b-Hampankatta to PVS Circle						
	Existing Median Kerb Stone(500mm wide x 400mm high)		1.00	000.00		1.00	
	Ch.15.00 to Ch.245.00	Sqm	1.00			1.30	299.00
	Ch.260.0 to Ch.500.0	Sqm	1.00			1.30	312.00
	Ch.515.0 to Ch.665.0	Sqm	1.00			1.30	195.00
	Ch.690.0 to Ch.833.0	Sqm	1.00			1.30	185.90
	Ch.915.0 to Ch.1085.0	Sqm Sqm	1.00	Total Qty.		1.30	221.00 3479.02
		Sqm		Total Qty.			3479.02
	P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole						
31	for electrical ducting.						
	Power Duct Chambers	Nos.	2	292			584.00
	Balmatta Road	Nos.	2	37			74.00
		Nos.		Total Qty.			658.00
32	P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD.						
	(Rate analysis attached)						
	SWD						
	Road 13a						
	Node-CO-137						
	Base	Rm	2.00	97.00			194.00
	Node-CO-176		0.00	10.00			
	Base	Rm	2.00	49.20			98.40
	Node-CO-143 Base	Dm	2.00	00.00			120.00
		Rm	2.00	69.00		+	138.00
				42.30			84.60
	Node-CO-144	Pm	1 2 00	+Z.3U			04.00
	Node-CO-144 Base	Rm	2.00				
	Node-CO-144 Base Node-CO-145						142 20
	Node-CO-144 Base Node-CO-145 Base	Rm Rm	2.00	71.10			142.20
	Node-CO-144 Base Node-CO-145			71.10			
	Node-CO-144 Base Node-CO-145 Base Node-CO-162 Base	Rm	2.00	71.10			142.20 228.80
	Node-CO-144 Base Node-CO-145 Base Node-CO-162	Rm	2.00	71.10			
	Node-CO-144 Base Node-CO-145 Base Node-CO-162 Base Node-CO-138	Rm Rm	2.00	71.10			228.80
	Node-CO-144 Base Node-CO-145 Base Node-CO-162 Base Node-CO-138 Base	Rm Rm	2.00	71.10 114.40 54.80			228.80
	Node-CO-144 Base Node-CO-145 Base Node-CO-162 Base Node-CO-138 Base Node-CO-141	Rm Rm Rm	2.00 2.00 2.00	71.10 114.40 54.80			228.80 109.60 75.40
	Node-CO-144 Base Node-CO-145 Base Node-CO-162 Base Node-CO-138 Base Node-CO-141 Base	Rm Rm Rm	2.00 2.00 2.00	71.10 114.40 54.80 37.70			228.80 109.60

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Base Node-CO-147	Rm	2.00	105.90			211.80
	Base Node-CO-148	Rm	2.00	69.10			138.20
	Base	Rm	2.00	117.70			235.40
	Node-CO-149 Base	Rm	2.00	83.70			167.40
	Node-CO-140 Base	Rm	2.00	64.80			129.60
	Node-CO-150						
	Base Node-CO-151	Rm	2.00	26.10			52.20
	Base Road 13b	Rm	2.00	32.00			64.00
	Node-CO-132 Base	Rm	2.00	175.70			351.40
	Node-CO-125						
	Base Node-CO-152	Rm	2.00	74.30			148.60
	Base	Rm	2.00	93.80			187.60
	Base	Rm	2.00	86.40			172.80
	Node-CO-134 Base	Rm	2.00	81.40			162.80
	Node-CO-133 Base	Rm	2.00	71.90			143.80
	Node-CO-131 Base	Rm	2.00	94.50			189.00
	Node-CO-160						
	Base	Rm	2.00	36.50			73.00
	Base Node-CO-178	Rm	2.00	121.40			242.80
	Base Node-CO-154	Rm	2.00	57.30			114.60
	Base	Rm	2.00	52.80			105.60
	Node-CO-130 Base	Rm	2.00	64.00			128.00
	Node-CO-126 Base	Rm	2.00	81.80			163.60
			2.00				
	Road 12 Node-CO-179						
	Base Node-CO-181	Rm	2.00	56.70			113.40
	Base Node-CO-180	Rm	2.00	301.20			602.40
	Base	Rm	2.00	114.70			229.40
	Road 7e						
	Node-CO-61 Base	Rm	1.00	15.00			15.00
	Node-CO-63 Base	Rm	1.00				43.00
	Node-CO-62						
	Base Node-CO-60	Rm	1.00				57.80
	Base Wall	Rm	1.00	58.70			58.70
	Node-CO-59	Rm	1.00	58.70			58.70
	Base	Rm	1.00	64.30			64.30
	Node-CO-52 Base	Rm	1.00	43.10			43.10
	Node-CO-54 Base	Rm	1.00	72.60			72.60
	Node-CO-53						
	Base Node-CO-58	Rm	1.00	50.20			50.20
	Base	Rm	1.00	132.10			132.10
	Road 7b Node-CO-29						
	Base	Rm	2.00	159.80			319.60
	Node-CO-87 Base	Rm	2.00	95.40			190.80
	Consider Chamber @10m C/C distance	Nos. Nos.					6396.90 640.00
	Balmatta Road						
	Foundation RHS-D12	Nos.	76.00				76.00
	RHS-D12A LHS-D11	Nos.	20.00 96.00				20.00 96.00
	Ded. No. Of Manhole covers on Level footpath	Nos.					-66.00
	Total no. Of covers	Nos.		Total Qty.			766.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
34	KSRRB M300- Wrought iron and mild steel welded work KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, gratings with grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications.(KPWD,18-19,SI.No.19.97)						
	Flush Footpath with Carriageway						
	7e-Milagres Nandigudda Road RHS						
	Ch.20.00 to Ch.70.00	Rm	1	50			50.00
	Ch.70.00 to Ch.142.00	Rm	1				72.00
	Ch.147.00 to Ch.172.00	Rm	1	25			25.00
	Ch.40.00 to Ch.150.00	Rm	1	110			110.00
	Bunts Hostel Road LHS						
	Ch.120.0 to Ch.200.0	Rm	1	80			80.00
	RHS			100			100.00
	Ch.168.0 to Ch. 290.0 13b-Hampankatta to PVS Circle LHS	Rm	1	122			122.00
	Ch.185.0 to Ch.250.0	Rm	1				65.00
	Ch.450.0 to Ch.590.0	Rm	1	140			140.00 664.00
	Total No. Of Gratings	Nos.					133.00
		Nos.	Nu	Total Qty.	K.		Quintal
	Consider 5% of Qty		Nos. 7.00	Kg/No. 150	Kg 1050		10.5
			1.00	100	1000		10.0
33	P/F FRP Water gully cover with frame (25T) 600mmx500 mm at level footpath. (Rate analysis attached)						
	Flush Footpath with Carriageway 7e-Milagres Nandigudda Road						
	RHS						
	Ch.20.00 to Ch.70.00	Rm	1				50.00
	Ch.70.00 to Ch.142.00 Ch.147.00 to Ch.172.00	Rm Rm	1				72.00 25.00
	LHS						20.00
	Ch.40.00 to Ch.150.00 Bunts Hostel Road	Rm	1	110			110.00
	LHS						
	Ch.120.0 to Ch.200.0	Rm	1	80			80.00
	RHS Ch.168.0 to Ch. 290.0	Rm	1	122			122.00
	13b-Hampankatta to PVS Circle						122.00
	LHS Ch.185.0 to Ch.250.0	Rm	1	65			65.00
	Ch.450.0 to Ch.590.0	Rm	1				140.00
							664.00
	Consider @10m C/C distance of M.H.Cover	Nos.					66.00
35	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 (P.No. 74/ I.No.11.52 of PWD SR 2015-16)						
	Water Pipe and OFC Pipe	N1-	-				0.00
	7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road	Nos. Nos.	6				6.00 8.00
	13a-KRR Road-PVS Circle to Arya Samaj Road	Nos.	24				24.00
	Balmatta Road 13b-KRR Road-PVS Circle to Hampankatta	Nos. Nos.	75 24				75.00
	13D-KKR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road	Nos.	24				11.00
							148.00
	Consider 25% qty of Total	Nos.					37.00
36	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						

. No.	Description	Unit	No's	L	В	н	Qty.
	Road-7b-Hampankatta to Milagres 1st Cross Lane						
	LHS Ch.20.00 to Ch.220.0	Rmt	1	200			200.00
	RHS						
	Ch.20.00 to Ch.50.0	Rmt	1	30			30.00
	Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0	Rmt Rmt	1	40			40.00
	7e-Milagres Nandigidda Road			110			110.00
	LHS						
	Ch.25.00 to Ch.45.00	Rmt	1	20			20.00
	Ch.155.00 to Ch.330.00	Rmt	1	175			175.00
	RHS	Dret	1	100			400.00
	Ch.170.00 to Ch.330.00 13a-PVS Circle to Arya Samaj Junction	Rmt	1	160			160.00
	LHS-Paver on Footpath						
	Ch.0.0 to Ch.60.0	Rmt	1	60			60.00
	Ch.62.00 to Ch.128.0	Rmt	1	66			66.00
	Ch.132.0 to Ch.280.0	Rmt	1	148			148.00
	Ch.285.0 to Ch.390.0 Ch.395.0 to Ch.455.0	Rmt Rmt	1	105 60			105.00
	Ch.460.0 to ch.545.0	Rmt	1	85			85.00
	Ch.580.0 to Ch.640.0	Rmt	1	60			60.00
	Ch.640.0 to Ch.800.0	Rmt	1	160			160.00
-	Ch.805.0 to Ch.860.0	Rmt	1	55			55.00
	Ch.860.0 to Ch.920.0	Rmt	1	60			60.00
	Ch.925.0 to ch.960.0 Ch.960.0 to Ch.1060.0	Rmt Rmt	1	35 100			35.00
	Ch.1060 to Ch.1110.0	Rmt	1	50			50.00
	LHS-Compound Side Paver		' -				0.00
	Ch.10.00 to Ch.60.00	Rmt	1	50			50.00
	Ch.60.00 to Ch.130.0	Rmt	1	70			70.00
	Ch.130.0 to Ch.200.0	Rmt	1	70			70.00
	Ch.235.0 to Ch.270.0 Ch.490.0 to Ch.540.0	Rmt Rmt	1	35 50			35.00
	Ch.650.0 to Ch.800.0	Rmt	1	150			150.00
	Ch.925.00 to Ch.950.0	Rmt	1	25			25.00
	Ch.960.0 to Ch.1050.0	Rmt	1	90			90.00
	RHS						
	Ch.0.0 to Ch.320.0	Rmt	1	320			320.00
	Ch.330.0 to Ch.510.0 Ch.510.0 to Ch.538.0	Rmt Rmt	1	180 28			180.00
	Ch.540.0 to Ch.578.0	Rmt	1	38			38.00
	Ch.580.0 to Ch.660.0	Rmt	1	80			80.00
	Ch.680.0 to Ch.750.0	Rmt	1	70			70.00
	Ch.750.0 to Ch.1020.0	Rmt	1	270			270.0
	Ch.1025.0 to Ch.1060.0	Rmt	1	35			35.00
	Ch.1070.0 to Ch.1110.0	Rmt	1	40			40.00
	RHS-Compound Side Paver Ch.0.0 to Ch.210.0	Rmt	1	210			210.00
	Ch.230.0 to Ch.290.0	Rmt	1	60			60.00
	Ch.325.0 to Ch.390.0	Rmt	1	65			65.00
	Ch.470.0 to Ch.510.0	Rmt	1	40			40.00
	Ch.515.0 to Ch.535.0	Rmt	1	20			20.00
	CH.540.0 to Ch.575.0	Rmt	1	35			35.00
	Ch.830.0 to Ch.970.0 Balmatta Road	Rmt		140			140.00
	Foundation						
	RHS-D12	Rmt	76	1			76.00
	RHS-D12A	Rmt	20	1			20.00
	LHS-D11	Rmt	96	1			96.00
	13b-Hampankatta to PVS Circle						
	LHS Ch.10.0 to Ch.180.0	Rmt	1	170		-	170.00
	Ch.255.0 to Ch.345.0	Rmt	1	90		1	90.00
	Ch.350.0 to Ch.440.0	Rmt	1	90		1	90.00
	Ch.590.0 to Ch.680.0	Rmt	1	90			90.00
	Ch.680.0 to Ch.845.0	Rmt	1	165			165.0
	Ch.840.0 to Ch.880.0	Rmt	1	40			40.00
	Ch.880.0 to Ch.900.0 Ch.900.0 to Ch.965.0	Rmt Rmt	1	20 65			20.00
	Ch.965.0 to Ch.1110.0	Rmt	1	145			145.0
	Ch.1110.0 to Ch.1120.0	Rmt	1	10			10.00
	Compound Wallside Paver Block						
	Ch.70.0 to Ch.180.0	Rmt	1	110			110.00
	Ch.255.0 to Ch.340.0	Rmt	1	85			85.00
	Ch.355.0 to Ch.410.0 Ch.590.0 to Ch.680.0	Rmt Rmt	1	55 90		-	55.00 90.00
	Ch.680.0 to Ch.730.0	Rmt	1	50		+	50.00
	Ch.820.0 to Ch.840.0	Rmt	1	20			20.00
	Ch.840.0 to Ch.880.0	Rmt	1	40			40.00
	Ch.880.0 to Ch.900.0	Rmt	1	20			20.00
	Ch.900.0 to Ch.935.0	Rmt	1	35			35.00
	Ch.900.0 to Ch.930.0 Ch.970.0 to Ch.1040.0	Rmt Rmt	1	30 70		-	30.00
	Ch.1060 to Ch.1110.0		1	50		+	50.00
	1Ch.1060 to Ch.1110.0	Rmt	1 17				

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.150.0 to Ch.510.0	Rmt	1				360.00
	Ch.515.0 to Ch.630.0	Rmt	1				115.00
	Ch.630.0 to Ch.1090.0	Rmt	1	460			460.00
	Compound Wallside Paver Block Ch.160.0 to Ch.270.0	Rmt	1	110			110.00
	Ch.270.0 to Ch.475.0	Rmt	1				205.00
	Ch.480.0 to Ch.505.0	Rmt	1				25.00
	Ch.515.0 to Ch.525.0	Rmt	1				10.00
	Ch.590.0 to Ch.630.0	Rmt	1				40.00
	12-Bunts Hostel Road						
	LHS						
	Ch.10.0 to Ch.118.00	Rmt	1				108.00
	Ch.200.0 to Ch.440.0	Rmt	1				240.00
	Ch.450.0 to Ch.478.0	Rmt	1	28			28.00
	RHS	Durt		455			455.00
	Ch.10.0 to Ch.165.0 Ch.300.0 to Ch.470.0	Rmt Rmt	1				<u>155.00</u> 170.00
		NIII	- ·	170			7838.00
			Nos.	Rm			7030.00
	Nos. Of Pipes		784	0.6			470.40
	Total length of pipe=	Rmt		Total Qty.			470.40
				l'otal dij.			
37	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		704.00				
	Same qty as pipe	Nos. Nos.	784.00	Total Qty.			784.00 784.00
38	KSRRB M2200- Providing Weep Holes KSRRB M2200-8. Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per specifications MORTH Specification No.2706 & 2200 (PWD SR 2018-19, SI.No.28.10)						
	Total Length of SWD Weep Holes at 1m c/c	Rm Nos/Rm	1	6780.90			6780.90 6781.00
39	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)						
	7b-Hampankatta to Milagres Cross Road-At Hampankatta Side (Existing						
	BT)	Rmt	3	19			5
	7b-Hampankatta to Milagres Cross Road-At Milagres church Side (Existing						
	CC)	Rmt	2				3
	7e-Attavar Road-Mother theresa Road to Nandiguda Road	Rmt	7				7
	9-Sturrock Road	Rmt	11				
	13a-KRR Road-PVS Circle to Arya Samaj Road	Rmt	12				24
	Balmatta Road	Rmt Rmt	6				<u>17</u> 24
	13b-KRR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road	Rmt	5				10
	T2 Danis Hostor Hoad	Rmt	1 3	Total Qty.		1	919.0
				rotar uty.			010.0
40							
40	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)		Not	PHC	Nos	1.116	
40	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)	Dert	Nos.	RHS	Nos.	LHS	100
40	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) 7b-Hampankatta to Milagres Cross Road	Rmt	4	220	2	220	132
40	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) 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road	Rmt	4	220 330	2	220 330	264
40	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) 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road	Rmt Rmt	4 4 4	220 330 1110	2 4 10	220 330 1110	264 1554
40	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) 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road Balmatta Road	Rmt	4	220 330 1110 525	2	220 330 1110 593	
40	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) 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road	Rmt Rmt Rmt	4 4 4 2	220 330 1110 525 1120	2 4 10 2	220 330 1110 593 1120	264 1554 223
40	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) 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road Balmatta Road 13b-KRR Road-PVS Circle to Hampankatta	Rmt Rmt Rmt Rmt	4 4 4 2 1	220 330 1110 525 1120	2 4 10 2 4	220 330 1110 593 1120	264 1554 223 560

	Description	Unit	No's	L	В	н	Qty.
							E=(A*B+C*D)
							*2m chamber
			A	В	С	D	length
	7b-Hampankatta to Milagres Cross Road	Rmt	4	-	2		-96
	7e-Attavar Road-Mother theresa Road to Nandiguda Road	Rmt	4		4		-176
	13a-KRR Road-PVS Circle to Arya Samaj Road	Rmt	4		10		-1036 -152
	Balmatta Road 13b-KRR Road-PVS Circle to Hampankatta	Rmt Rmt	1		2		-152
	12-Bunts Hostel Road	Rmt	2				-360
		Rmt	2	Total Qty.		10	26840.00
41	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		Nos.	RHS	Nos.	LHS	
	7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road	Rmt Rmt	2		2		880
	13a-KRR Road-PVS Circle to Arya Samaj Road	Rmt	2		4		6660
		Rmt	2				4480
	13b-KRR Road-PVS Circle to Hampankatta	Rmt	2				1440
	12-Bunts Hostel Road	Rmt	2		0	400	1440
	Balmatta Road	RIII		No. Of	No. Of	No. Of	
	Deduction of Chambers length		No. Of Pipes	Chambers	-	Chambers	
			·				
							E=(A*B+C*D *2m chambe
			A	в	с	D	length
	7b-Hampankatta to Milagres Cross Road	Rmt	2		2		-64
	7e-Attavar Road-Mother theresa Road to Nandiguda Road	Rmt	2		2		-8
	13a-KRR Road-PVS Circle to Arya Samaj Road	Rmt	2		4		-44
	13b-KRR Road-PVS Circle to Hampankatta	Rmt	2		2		-304
	12-Bunts Hostel Road	Rmt	2		1		-96
	Balmatta Road	Rmt	0		0		(
	Damata Nodu	Rmt	Ĭ	Total Qty.		20	13784.00
42	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) 7b-Hampankatta to Milagres Cross Road	Rmt	1	RHS 220	LHS 220		440
		Rmt	1		330		660
	7e-Attavar Road-Mother theresa Road to Nandiguda Road	Rmt	1				2220
	13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta	Rmt	1				2220
	Balmatta Road	Rmt	1		593		1118
	12-Bunts Hostel Road	Rmt	1		480		960
		TAIL	· ·	400	400		7638.00
	No. of Spacer=Total Length of Pipe / 1.5m	Nos.		Total Qty.			5092.0
43	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.	Nos.		RHS	LHS		5092.00
43	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	Nos.	1	RHS	LHS 220		
43	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.		1	RHS 220			44
43	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. 7b-Hampankatta to Milagres Cross Road	Rmt		RHS 220 330	220 330		44
43	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road	Rmt Rmt	1	RHS 220 330 1110	220 330		44(660 222(
43	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road	Rmt Rmt Rmt	1	RHS 220 330 1110 1120	220 330 1110 1120		44 66 222 224
43	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta	Rmt Rmt Rmt Rmt	1 1 1	RHS 220 330 1110 1120 0	220 330 1110 1120		44 66 222 224 96
43	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road	Rmt Rmt Rmt Rmt Rmt Rmt	1 1 1 1	RHS 220 330 1110 1120 0 480	220 330 1110 1120 0		44(66(222(224(0) 96(6520.0 (
43	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road No. of Spacer=Total Length of Pipe / 1.5m	Rmt Rmt Rmt Rmt Rmt	1 1 1 1	RHS 220 330 1110 1120 0	220 330 1110 1120 0		44(66(222(224() 96(6520.0 (
43	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road	Rmt Rmt Rmt Rmt Rmt Rmt	1 1 1 1	RHS 220 330 1110 1120 0 480	220 330 1110 1120 0		44(66(222(224(6520.0(4347.0(
	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road No. of Spacer=Total Length of Pipe / 1.5m 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 Rmt Rmt Rmt Rmt Rmt	1 1 1 1	RHS 220 330 1110 1120 0 480 Total Qty. RHS	220 330 1110 0 480		44 66 222 224 96 6520.0 4347.0
	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road No. of Spacer=Total Length of Pipe / 1.5m 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 Rmt Rmt Rmt Rmt Nos.		RHS 220 330 1110 1120 0 480 Total Qty. RHS 220	220 330 1110 1120 0 480		44 66 222 224 96 6520.0 4347.0
	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road No. of Spacer=Total Length of Pipe / 1.5m 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) 7b-Hampankatta to Milagres Cross Road	Rmt Rmt Rmt Rmt Rmt Nos.		RHS 220 330 1110 1120 0 480 Total Qty. RHS 220 330	220 330 1110 1120 0 480 		44 66 222 224 96 6520.0 4347.0 4347.0
	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road No. of Spacer=Total Length of Pipe / 1.5m 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) 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road	Rmt Rmt Rmt Rmt Nos.		RHS 220 330 1110 1120 0 480 Total Qty. RHS 220 330 1110	220 330 1110 1120 0 480 		44(66(222(224(6520.0) 4347.0) 4347.0) 4347.0)
	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road No. of Spacer=Total Length of Pipe / 1.5m 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) 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road Balmatta Road	Rmt Rmt Rmt Rmt Rmt Nos.		RHS 220 330 1110 1120 0 480 Total Qty. RHS 220 330 1110 525	220 330 1110 0 480 LHS 220 330 1110 593		44 66 222 224 96 6520.0 4347.0 4347.0 4347.1 44 66 222 111
	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road No. of Spacer=Total Length of Pipe / 1.5m 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) 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road	Rmt Rmt Rmt Rmt Nos.		RHS 220 330 1110 1120 0 480 Total Qty. RHS 220 330 1110 525 1120	220 330 1110 0 480 LHS 220 330 1110 593		44 66 222 224 96 6520.0 4347.0 4347.0 4347.0 4347.1 4347.0
	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road No. of Spacer=Total Length of Pipe / 1.5m 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) 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road Balmatta Road 13b-KRR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road	Rmt Rmt Rmt Rmt Mos. Nos.		RHS 220 330 1110 1120 0 480 Total Qty. RHS 220 330 1110 525 1120 480	220 330 1110 0 480 		44 66 222 224 96 6520.0 4347.0 4347.0 4347.0 4347.0
	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road No. of Spacer=Total Length of Pipe / 1.5m 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) 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-PVS Circle to Arya Samaj Road Balmatta Road 13a-KRR Road-PVS Circle to Arya Samaj Road Balmatta Road	Rmt Rmt Rmt Rmt Mos. Nos.		RHS 220 330 1110 1120 0 480 Total Qty. RHS 220 330 1110 525 1120 480 No. Of	220 330 1110 0 480 LHS 220 330 1110 593 1120		44 66 222 224 96 6520.0 4347.0 4347.0 4347.0 4347.0 4347.0 222 111 224 96
	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road No. of Spacer=Total Length of Pipe / 1.5m 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) 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road Balmatta Road 13b-KRR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road	Rmt Rmt Rmt Rmt Mos. Nos.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RHS 220 330 1110 1120 0 480 Total Qty. Total Qty. 8 220 330 1110 525 1120 480 No. Of Chambers	220 330 1110 0 480 220 330 1110 593 1120 480 No. Of Pipes	No. Of Chambers	444 666 222 2244 6 6520.0 4347.0 4347.0 4347.0 4347.0 4347.0 5 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 5 5 2 0.0 4 3 4 7 5 6 6 5 5 2 0.0 4 3 4 7 5 6 6 5 5 2 0.0 4 3 4 7 5 6 6 6 5 5 2 0.0 4 4 4 4 6 6 6 5 5 2 0.0 4 4 4 4 6 6 6 5 5 2 0.0 4 4 4 4 7 6 6 6 5 5 2 0.0 4 4 3 4 7 .0 1 5 5 5 0 .0 4 4 3 4 7 .0 1 5 5 5 0 .0 4 4 3 4 7 .0 1 5 5 5 2 .0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road No. of Spacer=Total Length of Pipe / 1.5m 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) 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-PVS Circle to Arya Samaj Road Balmatta Road 13b-KRR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road	Rmt Rmt Rmt Rmt Mos. Nos.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RHS 220 330 1110 1120 0 480 Total Qty. RHS 220 330 1110 525 1120 480 No. Of Chambers B	220 330 1110 0 480 220 330 1110 593 1120 480 No. Of Pipes	No. Of Chambers	444 666 2224 966 6520.00 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4444444444444
	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road No. of Spacer=Total Length of Pipe / 1.5m 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) 7b-Hampankatta to Milagres Cross Road 13a-KRR Road-PVS Circle to Arya Samaj Road Balmatta Road 13b-KRR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road	Rmt Rmt Rmt Rmt Mos. Nos.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RHS 220 330 1110 1120 0 480 Total Qty. Total Qty. RHS 220 330 1110 1120 480 No. Of Chambers B 8	220 330 1110 1120 0 480 220 330 1110 593 1120 480 No. Of Pipes C 1	No. Of Chambers D	444 666 2224 966 6520.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 4347.0 5520.0 4347.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 5520.0 552
	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road No. of Spacer=Total Length of Pipe / 1.5m 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) 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-PVS Circle to Arya Samaj Road Balmatta Road 13a-KRR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road Deduction of Chambers length	Rmt Rmt Rmt Rmt Nos. Nos.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RHS 220 330 1110 1120 0 480 Total Qty. RHS 220 330 1110 525 1120 480 No. Of Chambers B 8 111	220 330 1110 1120 0 480 220 330 1110 593 1120 480 No. Of Pipes C 1 1	No. Of Chambers D 220 330	444 666 2224 966 6520.0 4347.00 4347.00 4347.00 4347.00 4347.00 5229 1111 2244 966 2229 1111 2244 966 2229 1111 2244 966 2229 1111 2244 966 2229 1111 2244 966 2229 1111 224 1112 244 1112 244 244
	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. 7b-Hampankatta to Milagres Cross Road 7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road 13b-KRR Road-PVS Circle to Hampankatta Balmatta Road 12-Bunts Hostel Road No. of Spacer=Total Length of Pipe / 1.5m 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) 7b-Hampankatta to Milagres Cross Road 13a-KRR Road-PVS Circle to Arya Samaj Road Balmatta Road 13b-KRR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road	Rmt Rmt Rmt Rmt Mos. Nos.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RHS 220 330 1110 1120 0 480 Total Qty.	220 330 1110 0 480 220 330 1110 593 1120 480 No. Of Pipes C 1 1 1 1	No. Of Chambers D 220 330 1110	44(66(222(224((96(6520.0) 4347.0) 4347.0 (4347.0) 4

ir. No.	Description	Unit	No's	L	В	H	Qty.
	12-Bunts Hostel Road	Rmt Rmt	1	16 Total Qty.	1	480	-297 5249 .4
	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						
45	size using approved colour shade and staping it using approved stamp						
45	pattern and antiquitting it on top with approved colour.Sealing entire area						
	with concrete sealer.						
	Road-7b-Hampankatta to Milagres 1st Cross Lane						
	LHS				0.54		500.00
	Ch.20.00 to Ch.220.0	Sqm	1	200.00	2.54		508.00
	Ch.20.00 to Ch.50.0	Sqm	1	30.00	5.37		161.00
	Ch.50.0 to Ch.90.0	Sqm	1	40.00	2.80		112.00
	Ch.110.0 to Ch.220.0	Sqm	1	110.00	2.56		282.00
	7e-Milagres Nandigidda Road						
	LHS Ch.25.00 to Ch.45.00	Sam	1	20.00	4.25		96.06
	Ch.155.00 to Ch.330.00	Sqm Sqm	1	20.00	4.35		86.96 669.85
	RHS	Sym	1	175.00	3.03		009.00
	Ch.170.00 to Ch.330.00	Sqm	1	160.00	2.68		428.50
	13a-PVS Circle to Arya Samaj Junction						
	LHS-Paver on Footpath						
	Ch.0.0 to Ch.60.0	Sqm	1	60.00	2.37		142.00
	Ch.62.00 to Ch.128.0	Sqm	1	66.00	2.08		137.00
	Ch.132.0 to Ch.280.0	Sqm	1	148.00	2.26		335.00
	Ch.285.0 to Ch.390.0	Sqm	1	105.00	2.21		232.00
	Ch.395.0 to Ch.455.0	Sqm	1	60.00	1.42		85.00
	Ch.460.0 to ch.545.0	Sqm	1	85.00	2.39		203.00
	Ch.580.0 to Ch.640.0	Sqm	1	60	3.20		192.00
	Ch.640.0 to Ch.800.0	Sqm	1	160.00	2.06		330.00
	Ch.805.0 to Ch.860.0	Sqm	1	55	2.36		130.00
	Ch.860.0 to Ch.920.0	Sqm	1	60.00	2.68		161.00
	Ch.925.0 to ch.960.0	Sqm	1	35	2.86		100.00
	Ch.960.0 to Ch.1060.0	Sqm	1	100.00	2.61		261.00
	Ch.1060 to Ch.1110.0	Sqm	1	50.00	4.02		201.00
	LHS-Compound Side Paver	-					
	Ch.10.00 to Ch.60.00	Sqm	1	50	2.46		123.00
	Ch.60.00 to Ch.130.0	Sqm	1	70	1.80		126.00
	Ch.130.0 to Ch.200.0	Sqm	1	70.00	2.66		186.00
	Ch.235.0 to Ch.270.0	Sqm	1	35.00	1.03		36.00
	Ch.490.0 to Ch.540.0	Sqm	1	50.00	0.96		48.00
	Ch.650.0 to Ch.800.0	Sqm	1	150.00	2.57		386.00
	Ch.925.00 to Ch.950.0	Sqm	1	25.00	1.88		47.00
	Ch.960.0 to Ch.1050.0 RHS	Sqm	1	90.00	6.23		561.00
	Ch.0.0 to Ch.320.0	Sqm	1	320.00	2.28		728.00
	Ch.330.0 to Ch.510.0	Sqm	1	180.00	2.06		370.00
	Ch.510.0 to Ch.538.0	Sqm	1	28.00	2.07		58.00
	Ch.540.0 to Ch.578.0	Sqm	1	38.00	1.74		66.00
	Ch.580.0 to Ch.660.0	Sqm	1	80.00	3.21		257.00
	Ch.680.0 to Ch.750.0	Sqm	1	70	3.53		247.00
	Ch.750.0 to Ch.1020.0	Sqm	1	270	1.60		433.00
	Ch.1025.0 to Ch.1060.0	Sqm	1	35	1.09		38.00
	Ch.1070.0 to Ch.1110.0	Sqm	1	40	1.85		74.00
	RHS-Compound Side Paver						
	Ch.0.0 to Ch.210.0	Sqm	1	210	1.92		404.00
	Ch.230.0 to Ch.290.0	Sqm	1	60	0.63		38.00
	Ch.325.0 to Ch.390.0	Sqm	1	65	1.58		103.00
	Ch.470.0 to Ch.510.0	Sqm	1	40	4.25		170.00
	Ch.515.0 to Ch.535.0	Sqm	1	20	2.40		48.00
	CH.540.0 to Ch.575.0	Sqm	1	35	3.23		113.00
	Ch.830.0 to Ch.970.0	Sqm	1	140	7.20		1008.00
	13b-Hampankatta to PVS Circle						
	LHS Ch.10.0 to Ch.180.0	Sqm	1	170	2.10		357.00
	Ch.255.0 to Ch.345.0	Sqm	1	90	2.10		236.00
	Ch.350.0 to Ch.440.0	Sqm	1	90	2.02		236.00
	Ch.590.0 to Ch.680.0	Sqm	1	90	2.30		207.00
	Ch.680.0 to Ch.845.0	Sqm	1	165	2.24		351.00
	Ch.840.0 to Ch.880.0	Sqm	1	40	4.58		183.00
	Ch.880.0 to Ch.900.0	Sqm	1	20	8.25		165.00
	Ch.900.0 to Ch.965.0	Sqm	1	65	2.42		157.00
	Ch.965.0 to Ch.1110.0	Sqm	1	145	2.18		316.00
	Ch.1110.0 to Ch.1120.0	Sqm	1	10	8.13		81.34
	Compound Wallside Paver Block		<u> </u>		0.10		001
	Ch.70.0 to Ch.180.0	Sqm	1	110	2.96		326.00
	Ch.255.0 to Ch.340.0	Sqm	1	85	1.89		161.00
	Ch.355.0 to Ch.410.0	Sqm	1	55	2.82		155.00
	Ch.590.0 to Ch.680.0	Sqm	1	90	4.15	+	373.09
	Ch.680.0 to Ch.730.0	Sqm	1	50	1.32		66.00
	Ch.820.0 to Ch.840.0	Sqm	1	20	3.75		75.00
	Ch.840.0 to Ch.880.0	Sqm	1	40	3.83		153.00

Br. No.	Description	Unit	No's	L	В	н	Qty.
-	Ch.880.0 to Ch.900.0	Sqm	1	20	8.25		165.00
	Ch.900.0 to Ch.935.0 Ch.900.0 to Ch.930.0	Sqm Sqm	1	35 30	2.91		102.00 102.00
	Ch.970.0 to Ch.1040.0	Sqm	1	70	7.20		504.00
	Ch.1060 to Ch.1110.0	Sqm	1	50	2.90		145.00
	RHS						
	Ch.10.0 to Ch.140.0 Ch.150.0 to Ch.510.0	Sqm	1	130 360	1.40		181.73 758.00
	Ch.515.0 to Ch.630.0	Sqm Sqm	1	115	2.11		292.00
	Ch.630.0 to Ch.1090.0	Sqm	1	460	1.83		842.00
	Compound Wallside Paver Block	0q		100			0.2.00
	Ch.160.0 to Ch.270.0	Sqm	1	110	0.72		79.00
	Ch.270.0 to Ch.475.0	Sqm	1	205	2.32		476.00
	Ch.480.0 to Ch.505.0 Ch.515.0 to Ch.525.0	Sqm Sqm	1	25 10	0.84		21.00 8.00
	Ch.590.0 to Ch.630.0	Sqm	1	40	3.20		128.00
	12-Bunts Hostel Road	Sqm		10	0.20		0.00
	LHS	Sqm					0.00
	Ch.10.0 to Ch.118.00	Sqm	1	108	3.78		408.24
	Ch.200.0 to Ch.440.0	Sqm	1	240	2.4		587.00
	Ch.450.0 to Ch.478.0 RHS	Sqm Sqm	1	28	3.54		99.00 0.00
	Ch.10.0 to Ch.165.0	Sqm	1	155	3.41		528.55
	Ch.300.0 to Ch.470.0	Sqm	1	170	3.78		642.60
	Deduct Kerb Stone Area	Sqm	-1	7875.04	0.115		-905.63
	Recess Cover	Sqm	-640.00	0.6	0.45		-172.80
	Balmatta Road-LHS	0		70			0.00
	Ch.0.0 to Ch.90.0 Ch. 90.0 to Ch.190.00	Sqm Sqm	1	79 100	2.2		173.80
	Landscape Deduction	Sqm Sqm	-1	81.72	4.44		-82.54
	Compound Wall Side-Ch.100 to Ch.185.0	Sqm	-1	85	2.4		202.81
	Ch.190 to Ch.340	Sqm	1	150	2.6		394.00
	Ch. 360 to Ch.470	Sqm	1	151	2.2		332.20
	Ch.470.0 to Ch.530.0	Sqm	1	80	2.2		176.00
	Balmatta Road-RHS						0.00
	Ch.0.0 to Ch.130	Sqm	1	130	2.65		344.50
	Ch.135.0 to Ch.205.0	Sqm	1	70	2.34		163.80
	Ch.200 to Ch.360.0	Sqm	1	160	3.32		531.20
	Ch.360.0 to Ch.530.0	Sqm	1	170	3.26		554.20
·6.00	Tactile Tile area Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles.	Sqm Sqm	-1	0.00 Total Qty.			0.00 22214.4
6.00	Cutting of Control joints panels(in Footpath) at suitable required locations		-1				
6.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS	Sqm		Total Qty.			22214.4
6.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0		-1		2.54		22214.4 147.32
6.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS	Sqm Rmt	1	Total Qty.			22214.4 147.32 0.00
6.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0	Sqm		Total Qty.	2.54 5.37 2.80		22214.4 147.32
6.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0	Sqm Rmt Rmt	1	Total Qty. 58	5.37		22214.4 147.32 0.00 48.30
6.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road	Sqm Rmt Rmt Rmt	1	Total Qty. 58 9 12	5.37 2.80		22214.4 147.32 0.00 48.30 33.60
6.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS	Sqm Rmt Rmt Rmt Rmt	1	Total Qty. 58 9 12 32	5.37 2.80 2.56		22214.4 147.32 0.00 48.30 33.60 82.04
6.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00	Sqm Rmt Rmt Rmt Rmt Rmt	1 1 1 1 1 1	Total Qty. 58 9 12 32 6	5.37 2.80 2.56 4.35		22214.4 147.32 0.00 48.30 33.60 82.04 26.09
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.330.00	Sqm Rmt Rmt Rmt Rmt	1	Total Qty. 58 9 12 32	5.37 2.80 2.56		22214.4 147.32 0.00 48.30 33.60 82.04 26.09
6.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00	Sqm Rmt Rmt Rmt Rmt Rmt	1 1 1 1 1 1	Total Qty. 58 9 12 32 6	5.37 2.80 2.56 4.35		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.39
6.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 13a-PVS Circle to Arya Samaj Junction	Sqm Rmt Rmt Rmt Rmt Rmt Rmt	1 1 1 1 1 1	Total Qty. 58 9 12 32 6 6 50	5.37 2.80 2.56 4.35 3.83		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.39
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.50.0 to Ch.90.0 Ch.10.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 13a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath	Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt	1 1 1 1 1 1 1 1	Total Qty. 58 9 12 32 6 6 50 46	5.37 2.80 2.56 4.35 3.83 2.68		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.39 123.19
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 13a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.0.0 to Ch.60.0	Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt		Total Qty. 58 9 9 12 32 6 6 50 46 18	5.37 2.80 2.56 4.35 3.83 2.68 2.37		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.33 123.19 123.19 42.60
6.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.10.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 13a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.0.0 to Ch.60.0 Ch.62.00 to Ch.128.0	Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt	1 1 1 1 1 1 1 1 1 1 1 1	Total Qty. 58 9 12 32 6 50 46 18 19	5.37 2.80 2.56 4.35 3.83 2.68 2.37 2.08		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.39 123.19 123.19 42.60 39.44
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 13a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.0.0 to Ch.60.0	Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt		Total Qty. 58 9 9 12 32 32 6 6 50 46 46 18	5.37 2.80 2.56 4.35 3.83 2.68 2.37		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.39 123.19 42.60 39.44 97.33
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.90.0 Ch.10.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 Taa-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.0.0 to Ch.128.0 Ch.132.0 to Ch.128.0 Ch.132.0 to Ch.280.0 Ch.132.0 to Ch.280.0 Ch.132.0 to Ch.280.0 Ch.395.0 to Ch.455.0	Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm		Total Qty. 58 9 9 12 32 32 6 6 50 50 46 46 46 18 19 43 300 18	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.37 2.08 2.26 2.21 1.42		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.39 123.19 123.19 42.60 39.44 97.33 66.29 25.50
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.25.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 Ch.25.00 to Ch.45.00 Ch.170.00 to Ch.30.00 Ch.170.00 to Ch.30.00 Ch.170.00 to Ch.30.00 Ch.25.00 to Ch.30.00 Ch.175.00 to Ch.30.00 Ch.175.00 to Ch.60.0 Ch.132.0 to Ch.28.0 Ch.62.00 to Ch.128.0 Ch.325.0 to Ch.455.0 Ch.395.0 to Ch.455.0 Ch.460.0 to ch.545.0	Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Qty. 58 9 12 32 6 6 50 46 18 19 43 30 18 25	5.37 2.80 2.56 4.35 3.83 2.68 2.37 2.08 2.26 2.21 1.42 2.39		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.39 123.19 123.19 42.60 39.44 97.33 66.29 25.50 59.71
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.30.00 RHS Ch.25.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 Ch.132.0 to Ch.30.00 Ch.132.0 to Ch.30.00 Ch.25.00 to Ch.30.00 Ch.25.00 to Ch.30.00 Ch.20.00 to Ch.30.00 Ch.20.00 to Ch.45.00 Ch.132.0 to Ch.450.0 Ch.132.0 to Ch.455.0 Ch.460.0 to ch.455.0 Ch.460.0 to ch.455.0 Ch.450.0 to Ch.640.0	Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm		Total Qty. 58 9 9 12 32 32 6 6 50 50 4 6 4 6 50 4 8 19 43 300 18 8 25 18	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.37 2.08 2.26 2.21 1.42 2.39 3.20		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.35 123.15 42.60 39.44 97.33 66.29 25.50 59.71 57.60
3.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.10.0 to Ch.20.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.30.00 RHS Ch.20.00 to Ch.30.00 RHS Ch.20.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 Ch.170.00 to Ch.30.00 Ch.170.00 to Ch.30.00 Ch.170.00 to Ch.30.00 Ch.132.0 to Ch.45.00 Ch.62.00 to Ch.128.0 Ch.132.0 to Ch.450.0 Ch.285.0 to Ch.455.0 Ch.460.0 to ch.545.0 Ch.460.0 to ch.545.0 Ch.460.0 to Ch.640.0 Ch.640.0 to Ch.640.0	Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm		Total Qty. 58 9 12 32 6 6 50 4 6 50 4 6 50 4 6 50 4 8 4 8 18 19 43 30 18 25 5 8 8 46	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.26 2.21 1.42 2.39 3.20 2.06		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.39 123.19 42.60 39.44 97.33 66.29 25.50 59.71 57.60 94.88
3.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.30.00 RHS Ch.25.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 Ch.132.0 to Ch.30.00 Ch.132.0 to Ch.30.00 Ch.25.00 to Ch.30.00 Ch.25.00 to Ch.30.00 Ch.20.00 to Ch.30.00 Ch.20.00 to Ch.45.00 Ch.132.0 to Ch.450.0 Ch.132.0 to Ch.455.0 Ch.460.0 to ch.455.0 Ch.460.0 to ch.455.0 Ch.450.0 to Ch.640.0	Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm		Total Qty. 58 9 12 32 6 6 50 46 50 46 46 46 18 19 43 30 18 25 18 8 46 16	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.26 2.21 1.42 2.39 3.20 2.06 2.36		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.33 123.15 123.15 42.60 39.44 97.33 66.29 25.50 59.71 57.60 94.88 37.82
\$.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.45.00 Ch.155.00 to Ch.30.00 RHS Ch.27.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 RHS Ch.170.00 to Ch.30.00 Ch.172.00 to Ch.30.00 Ch.172.00 to Ch.30.00 Ch.172.00 to Ch.30.00 Ch.128.0 Ch.172.00 to Ch.30.00 Ch.25.00 to Ch.45.00 Ch.128.0 Ch.128.0 Ch.128.0 Ch.128.0 Ch.395.0 to Ch.455.0 Ch.455.0 Ch.450.0 Ch.395.0 to Ch.450.0 Ch.450.0 Ch.580.0 to Ch.640.0 Ch.640.0 to Ch.860.0 Ch.800.0 Ch.800.0	Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Qty. 58 9 12 32 32 46 50 46 46 18 19 43 30 18 25 18 46 16 18 19 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 18 19 43 30 18 19 43 30 18 18 19 43 30 18 18 19 43 30 18 18 19 43 30 18 18 19 43 30 18 18 19 43 30 18 18 19 18 19 18 19 18 19 18 18	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.26 2.21 1.42 2.39 3.20 2.06		22214.4 147.32 0.00 48.30 33.60 26.09 191.33 123.19 123.19 42.60 39.44 97.33 66.29 25.50 59.71 57.60 94.88 37.82 48.30
\$.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.10.0 to Ch.20.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.110.0 to Ch.30.00 RHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 Ch.185.00 to Ch.30.00 Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 Ch.20.00 to Ch.45.00 Ch.132.0 to Ch.45.0.0 Ch.64.0.0 Ch.285.0 to Ch.390.0 Ch.285.0 to Ch.455.0 Ch.460.0 to ch.545.0 Ch.460.0 to Ch.800.0 Ch.800.0 to Ch.800.0 Ch.925.0 to ch.920.0 Ch.925.0 to ch.920.0 Ch.925.0 to ch.920.0 Ch.925.0 to ch.900.0	Sqm Rmt		Total Qty. 58 9 9 12 32 6 6 50 46 46 18 18 46 18 18 46 18 18 25 18 46 18 10 29 29 20 20 20 20 20 2	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.36 2.68 2.86 2.61		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.33 123.15 123.15 123.15 42.60 39.44 97.33 66.29 25.50 94.88 37.82 48.30 28.57 75.69
\$.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.10.0 to Ch.20.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.25.00 to Ch.45.00 Ch.10.0 to Ch.30.00 RHS Ch.25.00 to Ch.45.00 Ch.170.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 RHS Ch.120.0 to Ch.45.00 Ch.170.00 to Ch.330.00 RHS Ch.170.00 to Ch.30.00 Ch.132.00 Ch.132.00 Ch.128.0 Ch.132.00 Ch.385.00 to Ch.455.0 Ch.485.0 Ch.580.0 to Ch.455.0 Ch.640.0 Ch.640.0 Ch.640.0 Ch.640.0 Ch.640.0 Ch.640.0 to Ch.920.0 Ch.860.0 to Ch.920.0 Ch.860.0 to Ch.900.0 Ch.960.0 to Ch.900.0	Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt R		Total Qty. 58 9 12 32 32 46 50 46 46 18 19 43 30 18 25 18 46 16 18 19 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 18 19 43 30 18 19 43 30 18 18 19 43 30 18 18 19 43 30 18 18 19 43 30 18 18 19 43 30 18 18 19 43 30 18 18 19 18 19 18 19 18 19 18 18	5.37 2.80 2.56 4.35 3.83 2.68 2.37 2.08 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.36 2.68 2.86		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.39 123.19 123.19 42.60 39.44 97.33 66.29 25.50 39.44 97.33 66.29 25.50 94.88 37.82 48.30 28.57 75.69
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 ILHS-Paver on Footpath Ch.0.0 Ch.62.00 to Ch.128.0 Ch.132.0 to Ch.280.0 Ch.325.0 to Ch.390.0 Ch.325.0 to Ch.390.0 Ch.395.0 to Ch.455.0 Ch.460.0 to ch.545.0 Ch.460.0 to ch.545.0 Ch.460.0 to ch.545.0 Ch.460.0 to ch.640.0 Ch.800.0 Ch.800.	Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Qty. 58 9 9 12 32 6 6 50 46 50 46 18 19 43 300 18 255 18 46 18 19 43 300 18 255 18 18 19 43 30 18 25 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 18 19 43 30 18 18 19 43 30 18 18 19 43 30 18 18 19 43 30 18 18 18 19 43 30 18 18 18 18 19 43 30 18 18 18 19 43 30 18 18 18 19 45 18 18 18 19 45 18 18 18 19 45 18 18 18 18 18 18 18 1	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.68 2.68 2.68 2.68 2.61 2.61		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.32 123.19 123.19 42.60 39.44 97.33 66.29 25.50 59.71 57.60 94.88 37.82 48.30 28.57 75.69 60.30
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.10.0 to Ch.20.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.150.0 to Ch.30.00 RHS Ch.150.0 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 Ch.132.0 to Ch.45.00 Ch.132.0 to Ch.45.00 Ch.132.0 to Ch.45.00 Ch.132.0 to Ch.45.0 Ch.132.0 to Ch.45.0 Ch.395.0 to Ch.455.0 Ch.395.0 to Ch.455.0 Ch.460.0 to ch.545.0 Ch.860.0 to Ch.640.0 Ch.860.0 to Ch.860.0 Ch.860.0 to Ch.860.0 Ch.860.0 to Ch.960.0 Ch.995.0 to Ch.1960.0 Ch.995.0 to Ch.1060.0 Ch.990.0 to Ch.1060.0	Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm		Total Qty. 58 9 12 32 32 6 6 50 4 6 50 4 6 50 50 4 6 50 50 8 8 4 6 18 8 25 18 8 46 16 18 10 29 15	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.37 2.08 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.68 2.68 2.68 2.61 4.02		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.35 123.15 123.15 42.60 39.44 97.33 66.29 25.50 59.71 57.60 94.88 37.82 48.30 28.57 75.69 60.30 36.90
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 ILHS-Paver on Footpath Ch.0.0 Ch.62.00 to Ch.128.0 Ch.132.0 to Ch.280.0 Ch.325.0 to Ch.390.0 Ch.325.0 to Ch.390.0 Ch.395.0 to Ch.455.0 Ch.460.0 to ch.545.0 Ch.460.0 to ch.545.0 Ch.460.0 to ch.545.0 Ch.460.0 to ch.640.0 Ch.800.0 Ch.800.	Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Qty. 58 9 9 12 32 6 6 50 46 50 46 18 19 43 300 18 255 18 46 18 19 43 300 18 255 18 18 19 43 30 18 25 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 19 43 30 18 18 19 43 30 18 18 19 43 30 18 18 19 43 30 18 18 19 43 30 18 18 18 19 43 30 18 18 18 18 19 43 30 18 18 18 19 43 30 18 18 18 19 45 18 18 18 19 45 18 18 18 19 45 18 18 18 18 18 18 18 1	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.68 2.68 2.68 2.68 2.61 2.61		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.32 123.19 123.19 42.60 39.44 97.33 66.29 25.50 59.71 57.60 94.88 37.82 48.30 28.57 75.69 60.30
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.150.0 to Ch.30.00 RHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 I3a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.02.00 to Ch.128.0 Ch.132.0 to Ch.280.0 Ch.285.0 to Ch.390.0 Ch.395.0 to Ch.455.0 Ch.395.0 to Ch.455.0 Ch.460.0 to ch.545.0 Ch.460.0 to ch.640.0 Ch.880.0 to Ch.640.0 Ch.880.0 to Ch.640.0 Ch.880.0 to Ch.920.0 Ch.880.0 to Ch.920.0 Ch.880.0 to Ch.920.0 Ch.860.0 to Ch.1060.0 Ch.960.0 to Ch.1060.0 Ch.1060.0 to Ch.100.0 Ch.1060.0 to Ch.100.0	Sqm Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Qty. Total Qty. 58 9 9 12 32 6 6 50 	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.68 2.68 2.68 2.68 2.68 2.66 2.61 4.02 2.46 1.80 2.66 1.03		22214.4 147.32 0.00 48.30 33.60 33.60 26.09 191.32 123.19 123.19 42.60 39.44 97.33 66.29 25.50 59.71 57.60 94.88 37.82 48.30 28.57 75.69 60.30 36.90 30.9
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.10.0 to Ch.20.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.110.0 to Ch.20.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 Ch.25.00 to Ch.45.0 Ch.132.0 to Ch.280.0 Ch.32.0 to Ch.450.0 Ch.325.0 to Ch.455.0 Ch.460.0 to ch.545.0 Ch.460.0 to ch.545.0 Ch.880.0 to Ch.680.0 Ch.880.0 to Ch.680.0 Ch.800.0 Ch.800.0 to Ch.60.0 Ch.800.0 to Ch.1060.0 Ch.10	Sqm Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Qty. 58 9 12 32 32 6 6 50 4 6 18 19 43 30 19 43 30 18 25 18 46 18 10 29 15 20 20 10 15	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.37 2.08 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.68 2.68 2.68 2.66 2.61 4.02 2.46 1.80 2.66 1.03 0.96		22214.4 147.32 0.00 48.30 33.60 26.09 191.39 123.19 123.19 42.60 39.44 97.33 66.29 25.50 59.71 57.60 94.88 37.82 48.30 28.57 75.69 60.30 28.57 75.69 60.30 36.90 36.90 36.90 36.90 14.40
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.10.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 Ch.20.0 to Ch.630.0 Ch.132.0 to Ch.280.0 Ch.132.0 to Ch.640.0 Ch.132.0 to Ch.280.0 Ch.395.0 to Ch.455.0 Ch.460.0 to ch.545.0 Ch.460.0 to ch.545.0 Ch.860.0 to Ch.860.0 Ch.860.0 to Ch.860.0 Ch.860.0 to Ch.900.0 Ch.960.0 to Ch.1060.0 Ch.960.0 to Ch.1060.0 Ch.960.0 to Ch.100.0 Ch.960.0 to Ch.100.0 Ch.960.0 to Ch.100.0 Ch.100.0 to Ch.60.00 <	Sqm Sqm Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Qty. 58 9 12 32 32 46 50 46 46 18 19 43 300 18 48 19 43 300 18 46 16 18 19 43 300 15 200 200 15 43 30 15 200 200 15 43 43 43 43 43 43 43 4	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.68 2.66 2.61 4.02 2.46 1.80 2.66 1.03 0.96 2.57		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.35 123.15 42.60 39.44 97.33 66.29 25.50 59.71 57.60 94.88 37.82 48.30 28.57 75.69 60.30 28.57 75.69 60.30 36.90 36.90 36.90 36.90 14.40 110.65 10.2
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.150.0 to Ch.30.00 RHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.120.0 to Ch.45.00 Ch.62.00 to Ch.128.0 Ch.64.00 to Ch.60.0 Ch.28.0 to Ch.28.0 Ch.450.0 to Ch.455.0 Ch.460.0 to ch.455.0 Ch.460.0 to ch.455.0 Ch.925.0 to ch.920.0 Ch.925.0 to ch.920.0 Ch.925.0 to ch.960.0 Ch.925.0 to ch.960.0 Ch.925.0 to ch.920.0 Ch.1060 to Ch.1110.0 LH	Sqm Sqm Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm		Total Qty. 58 9 9 12 32 6 6 50 4 6 50 4 6 50 4 18 18 46 18 18 18 46 18 18 18 19 43 300 18 18 18 18 19 43 300 18 18 19 43 300 18 18 19 43 300 18 18 18 18 19 43 300 18 18 18 18 18 18 18 19 19 43 300 18 18 18 18 18 18 18 18 18 18	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.36 2.68 2.86 2.61 4.02 2.46 1.80 2.66 1.03 0.96 2.57 1.88		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.35 123.15 42.60 39.44 97.33 66.29 25.50 59.71 57.60 94.88 37.82 48.30 28.57 75.69 60.30 28.57 75.69 60.30 36.00 36.00 53.14 10.29 14.40 10.55 14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50 15.50 14.50 14.50 15.50 14.50 15.50 14.50 14.50 15.50 14.50 14.50 15.50 14.50 15.50 14.50 15.50 14.50 14.50 15.50 14.50 15.50 14.50 15.50 14.50 15.50 14.50 14.50 15.50 14.50 15.50 14.50 14.50 15.50 14.50 15.50 14.50 15.50 14.50 15.50 14.50 15.50 15.50 14.50 15.50 15.50 14.50 15.50 14.50 15.50 15.50 15.50 15.50 10.50 15.50 10.50
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.50.0 to Ch.90.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.150.0 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 I3a-PVS Circle to Arya Samaj Junction LHS-Paver on Footpath Ch.25.00 to Ch.45.0 Ch.128.0 Ch.132.0 to Ch.280.0 Ch.860.0 to Ch.455.0 Ch.460.0 to ch.455.0 Ch.460.0 to ch.455.0 Ch.460.0 to ch.640.0 Ch.640.0 to ch.640.0 Ch.640.0 to ch.640.0 Ch.860.0 to Ch.920.0 Ch.860.0 to Ch.1060.0 Ch.960.0 to Ch.1060.0 Ch.960.0 to Ch.1060.0 Ch.100.0 to Ch.60.00 <td>Sqm Sqm Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm</td> <td>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>Total Qty. 58 9 12 32 32 46 50 46 46 18 19 43 300 18 48 19 43 300 18 46 16 18 19 43 300 15 200 200 15 43 30 15 200 200 15 43 43 43 43 43 43 43 4</td> <td>5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.68 2.66 2.61 4.02 2.46 1.80 2.66 1.03 0.96 2.57</td> <td></td> <td>22214.4 147.32 0.00 48.30 33.60 33.60 26.09 191.32 123.19 123.19 42.60 39.44 97.33 66.29 25.50 59.71 57.60 94.88 37.82 48.30 28.57 75.69 60.30 36.90 30.9</td>	Sqm Sqm Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Qty. 58 9 12 32 32 46 50 46 46 18 19 43 300 18 48 19 43 300 18 46 16 18 19 43 300 15 200 200 15 43 30 15 200 200 15 43 43 43 43 43 43 43 4	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.68 2.66 2.61 4.02 2.46 1.80 2.66 1.03 0.96 2.57		22214.4 147.32 0.00 48.30 33.60 33.60 26.09 191.32 123.19 123.19 42.60 39.44 97.33 66.29 25.50 59.71 57.60 94.88 37.82 48.30 28.57 75.69 60.30 36.90 30.9
5.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.110.0 to Ch.220.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.150.0 to Ch.30.00 RHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.120.0 to Ch.45.00 Ch.62.00 to Ch.128.0 Ch.64.00 to Ch.60.0 Ch.28.0 to Ch.28.0 Ch.450.0 to Ch.455.0 Ch.460.0 to ch.455.0 Ch.460.0 to ch.455.0 Ch.925.0 to ch.920.0 Ch.925.0 to ch.920.0 Ch.925.0 to ch.960.0 Ch.925.0 to ch.960.0 Ch.925.0 to ch.920.0 Ch.1060 to Ch.1110.0 LH	Sqm Sqm Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm		Total Qty. 58 9 9 12 32 6 6 50 4 6 50 4 6 50 4 18 18 46 18 18 18 46 18 18 18 19 43 300 18 18 18 18 19 43 300 18 18 19 43 300 18 18 19 43 300 18 18 18 18 19 43 300 18 18 18 18 18 18 18 19 19 43 300 18 18 18 18 18 18 18 18 18 18	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.26 2.21 1.42 2.39 3.20 2.06 2.36 2.36 2.68 2.86 2.61 4.02 2.46 1.80 2.66 1.03 0.96 2.57 1.88		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.33 123.15 42.60 39.44 97.33 66.29 25.50 59.71 57.60 94.88 37.82 48.30 28.57 75.69 60.30 28.57 75.69 60.30 36.90 36.90 36.90 36.90 11.23 12.31 13.31 12.31 13.11 13.12 14.30 15.50 14.40 110.65 15.04 162.07 15.50 15.50 15
6.00	Cutting of Control joints panels(in Footpath) at suitable required locations using using tools and tackles. Road-7b-Hampankatta to Milagres 1st Cross Lane LHS Ch.20.00 to Ch.220.0 RHS Ch.20.00 to Ch.50.0 Ch.10.0 to Ch.20.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.110.0 to Ch.20.0 7e-Milagres Nandigidda Road LHS Ch.25.00 to Ch.45.00 Ch.155.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 RHS Ch.170.00 to Ch.330.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 RHS Ch.170.00 to Ch.30.00 Ch.132.0 to Ch.280.0 Ch.132.0 to Ch.280.0 Ch.385.0 to Ch.640.0 Ch.385.0 to Ch.640.0 Ch.805.0 to Ch.640.0 Ch.805.0 to Ch.800.0 Ch.805.0 to Ch.800.0 Ch.805.0 to Ch.800.0 Ch.805.0 to Ch.960.0 Ch.805.0 to Ch.960.0 Ch.1060 to Ch.1060.0	Sqm Sqm Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rmt Rm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Qty. Total Qty. 58 9 9 12 32 32 6 6 50 4 6 6 50 - - - - - - - - - - - - -	5.37 2.80 2.56 4.35 3.83 2.68 2.68 2.37 2.08 2.26 2.21 1.42 2.39 3.20 2.06 2.21 1.42 2.39 3.20 2.06 2.36 2.68 2.66 2.66 2.66 1.03 0.96 2.57 1.88 6.23		22214.4 147.32 0.00 48.30 33.60 82.04 26.09 191.39 123.19 123.19 42.60 39.44 97.33 66.29 25.50 59.71 57.60 94.88 37.82 48.30 28.57 75.69 60.30 28.57 75.69 60.30 36.00 53.14 10.29 14.40 10.29 14.40 10.55 15.04

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.580.0 to Ch.660.0	Rmt	1	23	3.21		73.89
	Ch.680.0 to Ch.750.0 Ch.750.0 to Ch.1020.0	Rmt Rmt	1	20 78	3.53		70.57
	Ch.1025.0 to Ch.1060.0	Rmt	1	10	1.00		10.86
	Ch.1070.0 to Ch.1110.0	Rmt	1	12	1.85		22.20
	RHS-Compound Side Paver						
	Ch.0.0 to Ch.210.0	Rmt	1	60	1.92		115.43
	Ch.230.0 to Ch.290.0	Rmt	1	18	0.63		11.40
	Ch.325.0 to Ch.390.0 Ch.470.0 to Ch.510.0	Rmt Rmt	1	19 12	1.58 4.25		<u>30.11</u> 51.00
	Ch.515.0 to Ch.535.0	Rmt	1	6	2.40		14.40
	CH.540.0 to Ch.575.0	Rmt	1	10	3.23		32.29
	Ch.830.0 to Ch.970.0	Rmt	1	40	7.20		288.00
	13b-Hampankatta to PVS Circle						
	LHS						
	Ch.10.0 to Ch.180.0	Rmt	1	49	2.10		102.90
	Ch.255.0 to Ch.345.0 Ch.350.0 to Ch.440.0	Rmt	1	26 26	2.62		68.18 59.80
	Ch.590.0 to Ch.680.0	Rmt Rmt	1	26	2.30		59.80
	Ch.680.0 to Ch.845.0	Rmt	1	48	2.13		102.11
	Ch.840.0 to Ch.880.0	Rmt	1	12	4.58		54.90
	Ch.880.0 to Ch.900.0	Rmt	1	6	8.25		49.50
	Ch.900.0 to Ch.965.0	Rmt	1	19	2.42		45.89
	Ch.965.0 to Ch.1110.0	Rmt	1	42	2.18		91.53
	Ch.1110.0 to Ch.1120.0	Rmt	1	3	8.13		24.40
	Compound Wallside Paver Block	Dent			0.00		04.04
	Ch.70.0 to Ch.180.0 Ch.255.0 to Ch.340.0	Rmt Rmt	1	32 25	2.96		94.84 47.35
	Ch.255.0 to Ch.340.0 Ch.355.0 to Ch.410.0	Rmt	1	25	2.82		47.35
	Ch.590.0 to Ch.680.0	Rmt	1	26	4.15		107.78
	Ch.680.0 to Ch.730.0	Rmt	1	15	1.32		19.80
	Ch.820.0 to Ch.840.0	Rmt	1	6	3.75		22.50
	Ch.840.0 to Ch.880.0	Rmt	1	12	3.83		45.90
	Ch.880.0 to Ch.900.0	Rmt	1	6	8.25		49.50
	Ch.900.0 to Ch.935.0	Rmt	1	10	2.91		29.14
	Ch.900.0 to Ch.930.0	Rmt	1	9	3.40		30.60
	Ch.970.0 to Ch.1040.0	Rmt	1	20 15	7.20		144.00
	Ch.1060 to Ch.1110.0 RHS	Rmt	1	15	2.90		43.50
	Ch.10.0 to Ch.140.0	Rmt	1	38	1.40		53.12
	Ch.150.0 to Ch.510.0	Rmt	1	103	2.11		216.87
	Ch.515.0 to Ch.630.0	Rmt	1	33	2.54		83.79
	Ch.630.0 to Ch.1090.0	Rmt	1	132	1.83		241.62
	Compound Wallside Paver Block						
	Ch.160.0 to Ch.270.0	Rmt	1	32	0.72		22.98
	Ch.270.0 to Ch.475.0	Rmt	1	59	2.32		137.00
	Ch.480.0 to Ch.505.0 Ch.515.0 to Ch.525.0	Rmt	1	8	0.84		6.72
	Ch.590.0 to Ch.630.0	Rmt Rmt	1	12	0.80		2.40 38.40
	Balmatta Road-LHS	Rmt		12	0.20		00.40
	Ch.0.0 to Ch.90.0	Rmt	1	22.57	2.20		49.65
	Ch. 90.0 to Ch.190.00	Rmt	1	28.57	4.44		126.85
	Landscape Deduction	Rmt	-1	23.35	1.01		-23.58
	Compound Wall Side-Ch.100 to Ch.185.0	Rmt	1	24.29	2.39		57.96
	Ch.190 to Ch.340	Rmt	1	42.86	2.63		112.58
	Ch. 360 to Ch.470	Rmt	1	43.14	2.20		94.91
	Ch.470.0 to Ch.530.0	Rmt Rmt	1	22.86	2.20		50.29
	Balmatta Road-RHS	Rmt Rmt					
	Ch.0.0 to Ch.130	Rmt	1	37.14	2.65		98.42
	Ch.135.0 to Ch.205.0	Rmt	1	20	2.34		46.80
	Ch.200 to Ch.360.0	Rmt	1	45.71	3.32		151.76
	Ch.360.0 to Ch.530.0	Rmt	1	48.57	3.26		158.34
	12-Bunts Hostel Road						
	LHS						· · · ·
	Ch.10.0 to Ch.118.00	Rmt	1	31	3.78		117.18
	Ch.200.0 to Ch.440.0 Ch.450.0 to Ch.478.0	Rmt Rmt	1	69 8	2.45 3.54		168.76
	RHS	Rmt		Ö	3.54		28.29
	Ch.10.0 to Ch.165.0	Rmt	1	45	3.41		153.45
	Ch.300.0 to Ch.470.0	Rmt	1	49	3.78		185.22
						Total	7883.42
47	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						
	Flush Footpath with Carriageway 7e-Milagres Nandigudda Road						
	RHS						
	Ch.20.00 to Ch.70.00	Sqm	1	50	0.57		28.45
	CII.20.00 to CII.70.00	Oqm					20.10

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.147.00 to Ch.172.00	Sqm	1	25	0.75		18.70
	LHS Ch.40.00 to Ch.150.00	Sqm	1	110	0.74		0.00 81.02
	Bunts Hostel Road	Sqm	1	110	0.74		0.00
	LHS	Sqm					0.00
	Ch.120.0 to Ch.200.0	Sqm	1	80.00	1.075		86.00
	RHS	Sqm					0.00
	Ch.168.0 to Ch. 290.0	Sqm	1	122	2.49		303.78
	13b-Hampankatta to PVS Circle						
	LHS Ch.185.0 to Ch.250.0	Sqm	1	65	1.88		122.20
	Ch.450.0 to Ch.590.0	Sqm	1	140	1.79		250.60
	Table Top paver Block	oqiii					200.00
	7b-Hampankatta to Milagres Cross Road	Sqm	2	13.4	3		80.40
	9-Sturrock Road	Sqm	0	0	0		0.00
	13a-KRR Road-PVS Circle to Arya Samaj Road	Sqm Sqm	6	14.8 14.5	3		266.40 87.00
	Balmatta road Balmatta road	Sqm	1	14.5	3		38.10
	Balmatta road	Sqm	1	9.7	3		29.10
	13b-KRR Road-PVS Circle to Hampankatta	Sqm	5	14.8	3		222.00
	12-Bunts Hostel Road	Sqm	2	14.5	3		87.00
		Sqm		Total Qty.			1757.78
48	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						
	7b-Hampankatta to Milagres Cross Road	Cum	2	13.4	5	0.15	20.10
	13a-KRR Road-PVS Circle to Arya Samaj Road	Cum	6	14.8	5	0.15	66.60
	Balmatta road	Cum	2	14.5	5	0.15	21.75
	Balmatta road	Cum	1	12.7	5	0.15	9.53
	Balmatta road	Cum	1	9.7	5	0.15	7.28
	13b-KRR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road	Cum Cum	5	14.8 14.5	5	0.15	55.50 21.75
		Cum	2	Total Qty.	5	0.15	202.50
49	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- Table Top paver Block 7b-Hampankatta to Milagres Cross Road 13a-KRR Road-PVS Circle to Arya Samaj Road Balmatta road	Cum Cum	2 6 2	13.4 14.8 14.5	5 5 5	0.04 0.04 0.04	5.36 17.76 5.80
	Balmatta road	Cum	1	12.7	5	0.04	2.54
	Balmatta road	Cum	1	9.7	5	0.04	1.94
	13b-KRR Road-PVS Circle to Hampankatta	Cum	5	14.8	5	0.04	14.80
	12-Bunts Hostel Road	Cum	2	14.5	5	0.04	5.80
		Cum		Total Qty.			54.00
	Sinages						
50	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) 7b-Hampankatta to Milagres Cross Road	Nos.	6				6.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	7e-Attavar Road-Mother theresa Road to Nandiguda Road	Nos.	6				6.00
	13a-KRR Road-PVS Circle to Arya Samaj Road	Nos.	11				11.00
	Balmatta Road	Nos.	25				25.00
	13b-KRR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road	Nos. Nos.	20				20.00
		Nos.	11	Total Qty.			79.00
		103.		Total Giy.			73.00
	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 them thick administry approach paged sheet having ministry 0.20 mm						
51	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 Octagon Stop Board-TYPE XI (KPWD 18-19,SI No : 24.2.6)						
	7b-Hampankatta to Milagres Cross Road	Nos.	1				1.00
	7e-Attavar Road-Mother theresa Road to Nandiguda Road	Nos.	1				1.00
	13a-KRR Road-PVS Circle to Arya Samaj Road	Nos.	5				5.00
	Balmatta Road	Nos.	1				1.00
	13b-KRR Road-PVS Circle to Hampankatta	Nos.	5				5.00
	12-Bunts Hostel Road	Nos.	2				2.00
		Nos.		Total Qty.	1	1	15.00
52	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.						
	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)						
	7b-Hampankatta to Milagres Cross Road	Nos.	2				2.00
	7e-Attavar Road-Mother theresa Road to Nandiguda Road	Nos.	4				4.00
	Balmatta Road	Nos.	6				6.00
	13a-KRR Road-PVS Circle to Arya Samaj Road	Nos. Nos.	6				6.00 7.00
	13b-KRR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road	Nos.	6				6.00
	12 Bunto HOStor Nodu	Nos.		Total Qty.		-	43.00
54	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						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	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.						
	7b-Hampankatta to Milagres Cross Road	Nos.	2				2.00
	7e-Attavar Road-Mother theresa Road to Nandiguda Road 13a-KRR Road-PVS Circle to Arya Samaj Road	Nos. Nos.	2				2.00
	13b-KRR Road-PVS Circle to Hampankatta	Nos.	5				5.00
	12-Bunts Hostel Road	Nos.	2				2.00
		Nos.		Total Qty.			19.00
	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						
3.00	sign board & 60 cm below ground level. The sign post should be painted						
0.00	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.			A			
	7b-Hampankatta to Milagres Cross Road	Sqm	5	Area 0.9			4.50
	7e-Attavar Road-Mother theresa Road to Nandiguda Road	Sqm	4				3.60
	9-Sturrock Road	Sqm	6	0.9			5.40
	13a-KRR Road-PVS Circle to Arya Samaj Road	Sqm	6				5.40
	Balmatta Road	Sqm	5				4.50
	13b-KRR Road-PVS Circle to Hampankatta 12-Bunts Hostel Road	Sqm Sqm	4				3.60
	12 Dano Hotol Hoda	Sqm		Total Qty.			32.40
	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						
55	concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm						
00	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)						
	7b-Hampankatta to Milagres Cross Road	Nos	92				92.00
	7e-Attavar Road-Mother theresa Road to Nandiguda Road	Nos	74				74.00
	13a-KRR Road-PVS Circle to Arya Samaj Road Balmatta Road	Nos Nos	366 399				366.00
	13b-KRR Road-PVS Circle to Hampankatta	Nos	388				399.00
	12-Bunts Hostel Road	Nos	150				150.00
		Nos.		Total Qty.			1469.0
	Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface:Providing and laving 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						
56	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						
56	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						
56	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						
56	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						
56	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)						
56	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) 7b-Hampankatta to Milagres Cross Road						
56	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) 7b-Hampankatta to Milagres Cross Road Ch.0 to Ch.220.0	Sam		220	0.1		44 00
56	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) 7b-Hampankatta to Milagres Cross Road	Sqm Sqm	22		0.1		
56	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) 7b-Hampankatta to Milagres Cross Road Ch.0 to Ch.220.0 Continuos Line-at Edge Continuos Line-at Median Dash Lines	Sqm Sqm	2	90 132	0.1 0.1		18.00 26.40
56	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) 7b-Hampankatta to Milagres Cross Road Ch.0 to Ch.220.0 Continuos Line-at Edge Continuos Line-at Edge Continuos Line-at Median Dash Lines Arrow	Sqm Sqm Sqm	2 2 20	90 132 0.76	0.1 0.1 Area/Rm		18.00 26.40 15.20
56	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) 7b-Hampankatta to Milagres Cross Road Ch.0 to Ch.220.0 Continuos Line-at Edge Continuos Line-at Median Dash Lines Arrow Pedstrian Crossing	Sqm Sqm Sqm Sqm	2 2 20 3	90 132 0.76 12.4	0.1 0.1 Area/Rm 1.4		18.00 26.40 15.20 52.08
56	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) 7b-Hampankatta to Milagres Cross Road Ch.0 to Ch.220.0 Continuos Line-at Edge Continuos Line-at Edge Continuos Line-at Median Dash Lines Arrow	Sqm Sqm Sqm	2 2 20	90 132 0.76 12.4	0.1 0.1 Area/Rm		18.00 26.40 15.20 52.08
56	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) 7b-Hampankatta to Milagres Cross Road Ch.0 to Ch.220.0 Continuos Line-at Edge Continuos Line-at Median Dash Lines Arrow Pedstrian Crossing Table Top Crossing	Sqm Sqm Sqm Sqm	2 2 20 3	90 132 0.76 12.4	0.1 0.1 Area/Rm 1.4		18.00 26.40 15.20 52.08
56	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) 7b-Hampankatta to Milagres Cross Road Ch.0 to Ch.220.0 Continuos Line-at Edge Continuos Line-at Median Dash Lines Arrow Pedstrian Crossing	Sqm Sqm Sqm Sqm	2 2 20 3	90 132 0.76 12.4	0.1 0.1 Area/Rm 1.4		18.00 26.40 15.20 52.08
56	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) 7b-Hampankatta to Milagres Cross Road Ch.0 to Ch.220.0 Continuos Line-at Edge Continuos Line-at Median Dash Lines Arrow Pedstrian Crossing Table Top Crossing 7e-Attavar Road-Mother theresa Road to Nandiguda Road Ch.0 to Ch.330.0 Continuos Line-at Edge	Sqm Sqm Sqm Sqm Sqm Sqm	2 20 3 20 20 2	90 132 0.76 12.4 13.4 330	0.1 0.1 Area/Rm 1.4 16.82 0.1		18.00 26.40 15.20 52.08 450.78
56	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) 7b-Hampankatta to Milagres Cross Road Ch.0 to Ch.220.0 Continuos Line-at Edge Continuos Line-at Edge Continuos Line-at Median Dash Lines Arrow Pedstrian Crossing Table Top Crossing 7e-Attavar Road-Mother theresa Road to Nandiguda Road Ch.0 to Ch.330.0 Continuos Line-at Edge Arrow	Sqm Sqm Sqm Sqm Sqm Sqm Sqm	2 20 3 20 20 2 2 2 14	90 132 0.76 12.4 13.4 330 0.76	0.1 0.1 Area/Rm 1.4 16.82 0.1 Area/Rm		44.00 18.00 26.40 15.20 52.08 450.78 66.00 10.64
56	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) 7b-Hampankatta to Milagres Cross Road Ch.0 to Ch.220.0 Continuos Line-at Edge Continuos Line-at Median Dash Lines Arrow Pedstrian Crossing Table Top Crossing 7e-Attavar Road-Mother theresa Road to Nandiguda Road Ch.0 to Ch.330.0 Continuos Line-at Edge	Sqm Sqm Sqm Sqm Sqm Sqm	2 20 3 20 20 2	90 132 0.76 12.4 13.4 330 0.76 6.2	0.1 0.1 Area/Rm 1.4 16.82 0.1		18.00 26.40 15.20 52.08 450.78

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Ch.0 to Ch.1110.0						
	Continuos Line-at Edge	Sqm	2	1110			222.00
	Dash Lines	Sqm	2	666			133.20
	Arrow	Sqm	80		Area/Rm		60.80
	Pedstrian Crossing	Sqm	8				156.80
	Table Top Crossing	Sqm	6	14.8	16.82		1493.62
	Balmatta Road						
	Ch.0.0 to Ch.530.0						
	Continuos Line	Sqm	4	530	0.1		212.00
	Dash Lines	Sqm	2	318	0.1		63.60
	Arrow	Sqm	48	0.76	Area		36.48
	Pedstrian Crossing	Sqm	9	12.9		Area/Rm	162.54
	Table Top Crossing	Sqm	2	12.9	16.82	Area/Rm	433.96
	13b-KRR Road-PVS Circle to Hampankatta						
	Ch.0 to Ch.1120.0						
	Continuos Line-at Edge	Sqm	2	1120	0.1		224.00
	Continuos Line-at Median	Sqm	2	933	0.1		186.60
	Dash Lines	Sqm	2	672	0.1		134.40
	Arrow	Sqm	120	0.76	Area/Rm		91.20
	Pedstrian Crossing	Sqm	9	12.5			157.50
	Table Top Crossing	Sqm	5				1219.45
	40 Durite Heatel Deed						
	12-Bunts Hostel Road Ch.0 to Ch.478.0						
	Continuos Line-at Edge	Sqm	2	478	0.1		95.60
	Continuos Line-at Median	Sqm	2	478			95.60
	Dash Lines	Sqm	2	286.8			57.36
	Arrow	Sqm	48	0.76	Area/Rm		36.48
	Pedstrian Crossing	Sqm	6				105.00
	Table Top Crossing	Sqm	2				487.78
		Sqm		Total Qty.			6601.14
57	display.The electronic display board to be of LED Scrolling type with Oval, 4.3 x 5.1mm dia. Diffused. LED's having Amber colour.Dual bin system should be adopted one for recycle waste & other for dry waste.Each bin shall be with minimum capacity of 70Ltrs.Interactive Information Panel- display equipment with information area of 1400 x 1400 and touch screen LED display panel of area not less than 600-900mm with integrated 8mm toughened glass.Advertisement Area 2 nos of size 4500mm x 1650mm and 2100mm x 2000mm shall be integrated within the design of the Bus Shelter. This shall be backlit type with SS box framing sides and back complete.Provision for installing outdoor WiFi Router.The Foundation slab shall be made in min M25 concrete. The cast iron nuts, bolts shall be rust proof hot deep galvanized powder coated etc.The materials used shall be						
	(NON SOR Item)						
-	7b-Hampankatta to Milagres Cross Road	Nos.	1				1.00
	7e-Attavar Road	Nos.	0				0.00
	12-Bunts Hostel Road	Nos.	2				2.00
	13b-PVS Circle to Arya samaj Road	Nos.	6				6.00
	13a-Hampankatta to PVS Circle	Nos.	0				0.00
		Nos.		Total Qty.			9.00
58	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	Nos.	3				3.00

Sr. No.	Description	Unit	No's	L	в	н	Qty.
	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 compliance 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)						
	(
	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						
59	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)						
	7b-Hampankatta to Milagres Cross Road	C	4.00	2.00	0.00	0.05	1 70
	Long Wall Short Wall	Cum Cum	4.00	3.00 0.60	0.23	0.65	1.79 0.36
	7e-Attavar Road						
	Long Wall	Cum	4.00	3.00	0.23	0.65	1.79
	Short Wall 12-Bunts Hostel Road	Cum	4.00	0.60	0.23	0.65	0.36
	Long Wall	Cum	8.00	3.00	0.23	0.65	3.59
	Short Wall	Cum	8.00	0.60	0.23	0.65	0.72
	Balmatta Road Long Wall	Cum	8.00	3.00	0.23	0.65	3.59
	Short Wall	Cum	8.00	0.60	0.23	0.65	0.72
	13b-PVS Circle to Arya samaj Road						
	Long Wall Short Wall	Cum Cum	16.00	3.00	0.23	0.65	7.18
	13a-Hampankatta to PVS Circle	Cum	16.00	0.00	0.23	0.05	1.44
	Long Wall	Cum	16.00	3.00	0.23	0.65	7.18
	Short Wall	Cum Cum	16.00	0.60 Total Qty.	0.23	0.65	1.44 30.14
		Cum		Total Qty.			30.14
	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,						
60	including cost of materials, labour, curing complete as per						
	specifications.(KPWD 18-19,SI No.15.16)						
	7b-Hampankatta to Milagres Cross Road						
	Long Wall	Sqm	4.00	3.00		0.45	5.40
	Short Wall 7e-Attavar Road	Sqm	4.00	0.60		0.45	1.08
	Long Wall	Sqm	4.00	3.00		0.45	5.40
	Short Wall	Sqm	4.00	0.60		0.45	1.08
	12-Bunts Hostel Road Long Wall	Sqm	8.00	3.00		0.45	10.80
	Short Wall	Sqm	8.00	0.60		0.45	2.16
	Balmatta Road						
	Long Wall Short Wall	Sqm	8.00 8.00	3.00 0.60		0.45	10.80 2.16
	13b-PVS Circle to Arya samaj Road	Sqm	8.00	0.60		0.45	2.10
	Long Wall	Sqm	16.00	3.00		0.45	21.60
	Short Wall	Sqm	16.00	0.60		0.45	4.32
	13a-Hampankatta to PVS Circle Long Wall	Sqm	16.00	3.00		0.45	21.60
	Short Wall	Sqm	16.00	0.60		0.45	4.32
		Sqm		Total Qty.			90.72
	Providing and fixing 450mm wide X 600mmX 20mm thk.RIVERWASHED						
61	BLACK GRANITE CLADDING on surface of seating as directed by						
01	architect						
	(Non SOR Item) 7b-Hampankatta to Milagres Cross Road						
	Bench	Sqm	2.00	3.00		0.60	3.60
	7e-Attavar Road						
	Bench	Sqm	2.00	3.00		0.60	3.60
	12-Bunts Hostel Road			3.00		0.60	7.20
	12-Bunts Hostel Road Bench	Sqm	4.00	3.001			
	Bench 13b-PVS Circle to Arya samaj Road						
	Bench	Sqm Sqm	4.00 8.00	3.00		0.60	14.40
	Bench 13b-PVS Circle to Arya samaj Road Bench Balmatta Road Bench					0.60	14.40 7.20
	Bench 13b-PVS Circle to Arya samaj Road Bench Balmatta Road	Sqm	8.00	3.00			

Sr. No.	Description	Unit	No's	L	В	н	Qty.
62	Supply and Fixing of Traffic signal Straight pole of 6 mtr, inner dia 100 mm from resistant to peeling with base plate size of (LXWXT) 200mm X200mmX6mm painted with redoxide and double coat with synthetic enamel paint of yellow colour assembly G.I., class B, as per technical specification	Nos.	2				2.00
63	Supply and fixing of Traffic signal Cantilever pole Class B having inner diameter of 100 mm or more with a height of 6m including extension arm assembly having outer diameter of 75mm with arm span of 4 mtr length and base plate of size 300mm X 300mm with thickness of 6 mm welded at the bottom of the pole base as per technical specification & drawings. (NON SOR Item)	Nos.	2				2.00
64	Supply and fixing of 300 mm dia – single source – LED retrofit - Red (blow) as per Specification (NON SOR Item)	Nos.	4				4.00
65	Supply and fixing of 300 mm dia – single source – LED retrofit - Amber (blow) as per Specification (NON SOR Item)	Nos.	4				4.00
66	Supply and fixing of 300 mm dia – single source – LED retrofit - Green (arrow/U- Turn) EN-12368 as per Specification (NON SOR Item)	Nos.	4				4.00
67	Supply and fixing of 300 mm dia – single source – LED retrofit - Red (ped. standing) EN-12368 as per Specification (NON SOR Item)	Nos.	4				4.00
68	Supply and fixing of 300 mm dia – single source – LED retrofit - Green (ped.walking) EN-12368 as per Specification (NON SOR Item)	Nos.	4				4.00
69	Supply and fixing of 300 mm dia - No Right Turn/No Left turn/No Straight/No 'U' Turn aspects by using UV stabilized ink on face plate EN- 12368 as per Specification (NON SOR Item)	Nos.	4				4.00
70	Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	418				418.00
71	Providing and fixing of railing as detail design in MS HOLLOW SECTION and bars (shop drawing to be approved),with vertical support of 0.9m @2.2mc/c , all complete to the satisfaction of the Landscape architect.(Non SOR Item)						
	Handrail						
	Road RHS	Rm	1	25			25.00
	LHS	Rm	1	25			25.00
		Rm				A=	50.00
	Hand Rail of length2.4 meter Steel Qty.					Wt/Rm	
	Horizontal Member-M.S.Box 25x25x3.2mm thk.	KG		3	2.4		32.66
	Vertical Member-M.S. Box 50x25x3.2mm thk.	KG		1			10.13
	Verical Bar-Dia 16mm	KG		20		0.7493296 Thk	7.12
	Logo Plate	KG		1	Area 0.07065		0.000071
		KG			0.01000	Total Wight for 2.4 m Railing (A)	49.91
	Railing per 1m Weight(A / 2.4 m)	KG				в=	20.8
	Total Railing Weight (A x B)	МТ					1.04
72	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.	Nos.	105				105.00
73	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	33087.45			33087.45
74	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	13153.88			13153.88

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 1.2 Rate Analysis of Road & Other Work for DPR 4

	Taking out existing CC interlocking paver blocks from footpath/ co	ontrol vo	rao includina ro	moval of rubbich
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 Enginee	er-In-Charge.(RA
	attached)			
	Basic rate		68.16	
	Add 10% For area weightage (Mangalore City)		6.82	
		Rate	74.98	
		Rale	/4.30	Sqiii
	KSRRB M200.Dismantling of cement concrete pavement by	/ moohe	nicol moono u	aina nuoumatia
	tools, breaking to pieces not exceeding 0.02 cum in volume and			
	disposal of dismantled material stacking serviceble and unservicea			
2	specifications.MORTH specification No.202.(Including transporting			
	5km-Extra)	y charge	s, loading and di	libauling for leau
	(SI No : 18.47)			
	(3110.10.47)		1	
	Basic rate		899	
	Initial Lead of 5km		13	
	Add 10% For area weightage (Mangalore City)		89.9	
		Rate	1001.90	Cum
	KSRRB M200-Dismantaling of kerb Stone and Channel KSRRB M2	200-26. E	Dismantling Kerb	stone by Manual
	means and disposal of dismantled materials with all lifts and comple			,
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	
	KSRRB M200-13.1. Dismantling of existing structures like culv	/erts, bri	dges, retaining	walls and other
	structure comprising of masonry, cement concrete, wood work, s			
	wherever necessary, sorting the dismantled material, disposal of			
4	serviceable material with all lifts complete as per specifications			
	Concrete Grade M-15 & M-20. MORTH Specification No. 202 (KPW			
			,	
	Basic rate		390	
	Add 10% For area weightage (Mangalore City)		39	
		Rate	429.00	
		Trate	423.00	Juli
	KSRRB M200-17.2. Dismantling of existing structures like culv	l /erts hri	daes 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			
	Height of 5 m above plinth level excluding Cutting of Rivet– B. Excl			
	(KPWD SOR 18-19,18.33)	uuniy uis	sillering.	
	Basic rate		1893	
	Add 10% For area weightage (Mangalore City)	Data	189.3	
		Rate	2082.30	MI
	KODD 200 EQ. Coortifuing hitumingue course former to 75	thick -l-	ha with provide	porpot / outras
	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm			
	dressing by road roller attached with scarifier without disturbing th			
6	cost of all labour charges, HOM of machineries complete as per sp	pecificatio	ons. MORTH / Se	ection 5.(KSRRB
Ĭ	SI No.19.56)			
			1	
1				
	Basic rate Add 10% For area weightage (Mangalore City)		39 3.9	

		Rate	42.90	Sym
	KSRRB 300-46. Scarifying stone metal crust 50mm to 100mm thick	by road	roller with scarifi	er along with
	20mm premix carpet / surface dressing and stacking of old services			
	charges, HOM of machinaries complete as per specifications. MOF			
	charges, now of machinaries complete as per specifications. Mor			or No. 19.52)
	Basic rate		39	
	Add 10% For area weightage (Mangalore City)		3.9	
		Rate	42.90	Sam
	KSRRB M200-12.1. Dismantling of existing structures like culv	orte bri	daes retaining	walls and other
	structure comprising of masonary, cement concrete, woodwork, s			
	wherever necessary, sorting the dismantled material, disposal of	unservio	ceable material a	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)			
			a = <i>i</i>	
	Basic rate		351	
	Add 10% For area weightage (Mangalore City)		35.1	
		Rate	386.10	Cum
	Removing B.S slab of drain and stackin as directed by engineer in	charge.(F	WD 18-19.SI No	5.32)
9	· · · · · · · · · · · · · · · · · · ·	J		, , ,
	Basic rate		98	
	Add 10% For area weightage (Mangalore City)		9.8	
		Rate	107.80	
		Rale	107.00	Sym
	KSRRB M800-Permanent type barricade in construction zone			
	permanent type barricade made of steel components, 1.5 m high fi	om road	level, fitted with	3 horizontal rails
		om road	level, fitted with	3 horizontal rails
	permanent type barricade made of steel components, 1.5 m high fi	om road al suppo	level, fitted with rt, painted with y	3 horizontal rails vellow and white
10	permanent type barricade made of steel components, 1.5 m high fi 200 mm wide and 4 m long on 50 x 50 x 5 mm angle iron vertic	om road al suppo	level, fitted with rt, painted with y	3 horizontal rails vellow and white
10	permanent type barricade made of steel components, 1.5 m high fi 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	om road al suppo	level, fitted with rt, painted with y	3 horizontal rails vellow and white
10	permanent type barricade made of steel components, 1.5 m high fi 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	om road al suppo	level, fitted with rt, painted with y	3 horizontal rails vellow and white
10	permanent type barricade made of steel components, 1.5 m high fi 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 y complete as pe	3 horizontal rails vellow and white
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate	om road al suppo	level, fitted with rt, painted with y complete as pe 3829	3 horizontal rails vellow and white
10	permanent type barricade made of steel components, 1.5 m high fi 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)	rom road al suppo 2:55-2014	level, fitted with rt, painted with y complete as pe <u>3829</u> 382.9	3 horizontal rails yellow and white r specifications .
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate	om road al suppo	level, fitted with rt, painted with y complete as pe 3829	3 horizontal rails yellow and white r specifications .
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City)	rom road al suppo 2:55-2014 Rate	level, fitted with rt, painted with y complete as pe <u>3829</u> <u>382.9</u> 4211.90	3 horizontal rails yellow and white or specifications . Each
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate	rom road al suppo 2:55-2014 Rate	level, fitted with rt, painted with y complete as pe <u>3829</u> <u>382.9</u> 4211.90	3 horizontal rails yellow and white or specifications . Each
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City)	rom road al suppo P:55-2014 Rate hydraulic	level, fitted with rt, painted with y complete as pe 3829 382.9 4211.90 excavator of 0.9	3 horizontal rails yellow and white or specifications . Each bucket capacity
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s	rom road al suppo P:55-2014 Rate hydraulic slopes,in	level, fitted with rt, painted with y complete as pe 3829 382.9 4211.90 excavator of 0.9 accordance with	3 horizontal rails yellow and white or specifications . Each bucket capacity requirements of
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca	rom road al suppo P:55-2014 Rate hydraulic slopes,in	level, fitted with rt, painted with y complete as pe 3829 382.9 4211.90 excavator of 0.9 accordance with	3 horizontal rails yellow and white or specifications . Each bucket capacity requirements of
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications.	rom road al suppo P:55-2014 Rate hydraulic slopes,in	level, fitted with rt, painted with y complete as pe 3829 382.9 4211.90 excavator of 0.9 accordance with	3 horizontal rails yellow and white or specifications . Each bucket capacity requirements of
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301	rom road al suppo P:55-2014 Rate hydraulic slopes,in	level, fitted with rt, painted with y complete as pe 3829 382.9 4211.90 excavator of 0.9 accordance with	3 horizontal rails yellow and white or specifications . Each bucket capacity requirements of
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications.	rom road al suppo P:55-2014 Rate hydraulic slopes,in	level, fitted with rt, painted with y complete as pe 3829 382.9 4211.90 excavator of 0.9 accordance with	3 horizontal rails yellow and white or specifications . Each bucket capacity requirements of
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301	rom road al suppo P:55-2014 Rate hydraulic slopes,in	level, fitted with rt, painted with y complete as pe 3829 382.9 4211.90 excavator of 0.9 accordance with	3 horizontal rails yellow and white or specifications . Each bucket capacity requirements of
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301 (SI No : 19.14)	rom road al suppo P:55-2014 Rate hydraulic slopes,in	level, fitted with y rt, painted with y complete as pe <u>3829</u> <u>382.9</u> 4211.90 excavator of 0.9 accordance with p a lead of 5.00K	3 horizontal rails yellow and white or specifications . Each bucket capacity requirements of
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301 (SI No : 19.14) Basic rate for 1KM	rom road al suppo P:55-2014 Rate hydraulic slopes,in	level, fitted with y rt, painted with y complete as pe 3829 382.9 4211.90 excavator of 0.9 accordance with b a lead of 5.00K	3 horizontal rails yellow and white or specifications . Each bucket capacity requirements of m and complete
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301 (SI No : 19.14) Basic rate for 1KM Extra for carriage beyond 1km and upto 5km	rom road al suppo P:55-2014 Rate hydraulic slopes,in	level, fitted with y rt, painted with y complete as pe 3829 382.9 4211.90 excavator of 0.9 accordance with b a lead of 5.00K	3 horizontal rails yellow and white or specifications . Each bucket capacity requirements of im and complete
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301 (SI No : 19.14) Basic rate for 1KM	rom road al suppo 2:55-2014 Rate hydraulic slopes,in tion up to	level, fitted with y rt, painted with y complete as pe 3829 382.9 4211.90 excavator of 0.9 accordance with b a lead of 5.00K	3 horizontal rails yellow and white or specifications . Each bucket capacity requirements of im and complete
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301 (SI No : 19.14) Basic rate for 1KM Extra for carriage beyond 1km and upto 5km	rom road al suppo P:55-2014 Rate hydraulic slopes,in	level, fitted with y rt, painted with y complete as pe 3829 382.9 4211.90 excavator of 0.9 accordance with b a lead of 5.00K	3 horizontal rails yellow and white or specifications . Each bucket capacity requirements of im and complete
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301 (SI No : 19.14) Basic rate for 1KM Extra for carriage beyond 1km and upto 5km	rom road al suppo 2:55-2014 Rate hydraulic slopes,in tion up to	level, fitted with y rt, painted with y complete as pe 3829 382.9 4211.90 excavator of 0.9 accordance with b a lead of 5.00K	3 horizontal rails yellow and white or specifications . Each bucket capacity requirements of im and complete
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301 (SI No : 19.14) Basic rate for 1KM Extra for carriage beyond 1km and upto 5km Add 10% For area weightage (Mangalore City)	rom road al suppo 2:55-2014 Rate hydraulic slopes,in tion up to Rate	level, fitted with y rt, painted with y complete as pe <u>3829</u> 382.9 4211.90 excavator of 0.9 accordance with o a lead of 5.00K	3 horizontal rails yellow and white or specifications . Each bucket capacity requirements of m and complete Cum
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301 (SI No : 19.14) Basic rate for 1KM Extra for carriage beyond 1km and upto 5km Add 10% For area weightage (Mangalore City) KSRB 2-4 : Refilling available earth around pipe lines, cables i	rom road al suppo 2:55-2014 Rate hydraulic slopes,in tion up to Rate Rate	level, fitted with y rt, painted with y complete as pe 3829 3829 4211.90 excavator of 0.9 accordance with o a lead of 5.00K 41 10.24 5.12 56.36 not exceeding 2	3 horizontal rails yellow and white r specifications . Each bucket capacity requirements of m and complete Cum 20cms in depth,
10	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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301 (SI No : 19.14) Basic rate for 1KM Extra for carriage beyond 1km and upto 5km Add 10% For area weightage (Mangalore City) KSRB 2-4 : Refilling available earth around pipe lines, cables i compacting each deposited layer by ramming after watering with le	rom road al suppo 2:55-2014 Rate hydraulic slopes,in tion up to slopes,in tion up to ad upto 5	level, fitted with y rt, painted with y complete as pe 3829 3829 4211.90 excavator of 0.9 accordance with o a lead of 5.00K 41 10.24 5.12 56.36 not exceeding 2	3 horizontal rails yellow and white r specifications . Each bucket capacity requirements of m and complete Cum 20cms in depth,
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301 (SI No : 19.14) Basic rate for 1KM Extra for carriage beyond 1km and upto 5km Add 10% For area weightage (Mangalore City) KSRB 2-4 : Refilling available earth around pipe lines, cables i	rom road al suppo 2:55-2014 Rate hydraulic slopes,in tion up to slopes,in tion up to ad upto 5	level, fitted with y rt, painted with y complete as pe 3829 3829 4211.90 excavator of 0.9 accordance with o a lead of 5.00K 41 10.24 5.12 56.36 not exceeding 2	3 horizontal rails yellow and white r specifications . Each bucket capacity requirements of m and complete Cum 20cms in depth,
10	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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301 (SI No : 19.14) Basic rate for 1KM Extra for carriage beyond 1km and upto 5km Add 10% For area weightage (Mangalore City) KSRB 2-4 : Refilling available earth around pipe lines, cables i compacting each deposited layer by ramming after watering with le	rom road al suppo 2:55-2014 Rate hydraulic slopes,in tion up to slopes,in tion up to ad upto 5	level, fitted with y rt, painted with y complete as pe 3829 3829 4211.90 excavator of 0.9 accordance with o a lead of 5.00K 41 10.24 5.12 56.36 not exceeding 2	3 horizontal rails yellow and white r specifications . Each bucket capacity requirements of m and complete Cum 20cms in depth,
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301 (SI No : 19.14) Basic rate for 1KM Extra for carriage beyond 1km and upto 5km Add 10% For area weightage (Mangalore City) KSRB 2-4 : Refilling available earth around pipe lines, cables i compacting each deposited layer by ramming after watering with le cost of all labour complete as per specifications.(KPWD 18-19,SI N Basic rate	rom road al suppo 2:55-2014 Rate hydraulic slopes,in tion up to slopes,in tion up to ad upto 5	level, fitted with rt, painted with y complete as pe 3829 382.9 4211.90 excavator of 0.9 accordance with o a lead of 5.00K a lead of 5.00K 5.12 56.36 not exceeding 2 50m. and lift upto	3 horizontal rails yellow and white r specifications . Each bucket capacity requirements of m and complete Cum 20cms in depth,
10	permanent type barricade made of steel components, 1.5 m high fi 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) Basic rate Add 10% For area weightage (Mangalore City) KSRRB M300-14. Excavation for roadwork in all types of soil with including cutting and loading in tippers,trimming bottom and side s lines and grades and cross sections,and transporting disposal loca as per specifications. MORTH specification No.301 (SI No : 19.14) Basic rate for 1KM Extra for carriage beyond 1km and upto 5km Add 10% For area weightage (Mangalore City) KSRB 2-4 : Refilling available earth around pipe lines, cables i compacting each deposited layer by ramming after watering with le cost of all labour complete as per specifications.(KPWD 18-19,SI N	rom road al suppo 2:55-2014 Rate hydraulic slopes,in tion up to slopes,in tion up to ad upto 5	level, fitted with y rt, painted with y complete as pe 3829 382.9 4211.90 excavator of 0.9 accordance with o a lead of 5.00K a lead of 5.00K 5.12 56.36 not exceeding 2 50m. and lift upto	3 horizontal rails yellow and white or specifications . Each bucket capacity requirements of m and complete Cum 20cms in depth, 1.5 m. including

10	KSRRB 300-Compaction KSRRB 300-58. Compaction of original g			
13	10 tonnes power roller including filling in depression occuring during of machinery complete as per specifications. MORTH / Chapter 3	g roning n	ncluding cost of a	
		1	C	
	Basic rate Add 10% For area weightage (Mangalore City)		6 0.6	
		Rate		Sqm
		Trate	0.00	0qiii
	KSRB 4-1.6 ; Providing and laying in position plain cement con	crete of	mix M15 Grade	with cement @
	240kgs, with 20mm and down size graded granite metal coarse ag		•	
	@ 0.459cum, machine mixed, concrete laid in layers not exce			
14	foundation, plinth and cills, ncluding cost of all materials, labour, H		achinery, curing	complete as per
	specifications. Specification No. KBS 4.1, 4.2. (SI.No. 4.6 of KPWD	18-19)		
	Basic Rate		5900	
	Add 10% For area weightage (Mangalore City)		590	
		Rate	6490.00	Cum
	KSRRB 400 Granular Sub-Base with Coarse Graded Material (tabl			
	granular sub-base by providing Coarse graded crushed stone age			
	speading in uniform layers with motor grader on prepared surfa rotavator at OMC, and compacting with vibratory roller to achie			
15	MORTH specifications clause 401 and Table 400-1 Grading VI.	ve lie u	esired density, d	complete as per
	(SI.No.20.4 of KPWD SR 2018-19)			
	Basic Rate		2166	
	Add 10% For area weightage (Mangalore City)		2100	
		Rate	2382.60	
	KSRRB M400-6.1. Construction of granular sub-base by providing	close gra	ded crushed stor	ne aggregates of
	granite / trap / basalt material, mixing in a mechaical mix plant at			
16	site, spreading in uniform layers with motor grader on prepa	red surfa	ace and compa	cting with Plate
10	compactor to achieve the desired density, complete as per spec			Method Close
	graded granular sub-base material as per 400-1 For Grading- II Ma	terial (RA	Attached)	
		1	0.400	
	Basic Rate		2400	
	Add 10% For area weightage (Mangalore City)	Poto	240 2640.00	
		Rate	2640.00	Cum
	KSRB 4.2.1 : Providing and laying in position reiforcement ceme	nt concre	te of design Mix	M25 with OPC
	cement @340Kgs,with 20mm and down size graded granite metal			
	plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008			
	not exceeding 15cms thick, vibrated for all works in foundation for			
17	walls,walls (any thickness) including attached pilasters, colum			
	blocks,anchor blocks & plinths etc.,Including cost of labour,HOM o	f machine	ery,curing,comple	ete but excluding
	cost of reinforcement as per specifications.			
	(SI No : 4.10 of KPWD 18-19)			
	Basic Rate		6198	
	Add 10% For area weightage (Mangalore City)	Dete	619.8	
		Rate	6817.80	Cum
	KSPR 4.6.1 Droviding and romoving contaring chuttering struttin		na oto and rama	val of formularly
	KSRB 4.6.1 Providing and removing centering, shuttering, struttin for foundations, footings, bases of columns for mass concrete inclu			
10	as per specifications.			, abour complete
18	Specification No. KSB 4.6.2			
	(SI No : 4.28 of KPWD 18-19)			
	Basic Rate		263	
	Add 10% For area weightage (Mangalore City)		263	
<u> </u>	nua 10701 ol alea weightage (Mangalore Oily)	Rate	289.30	
		ILUIC	203.30	~~~

KSRB 4.9.2 : Providing T.M.T steel reinforcement for RCC work including straighting cutting, bending hooking, Jacking in position, Japping and/or welding wherever required tying with binding wire and anchoring to thr adjoing members wherever necessary complete as per design (laps, hooks and subge shall not be measured and paid) cost of materials, labour HOM of machinary complete as per design (laps, hooks and subge shall not be measured and paid) cost of materials, labour HOM of machinary complete as per design (laps, hooks and own in the transport of the second state in the					
straighting cutting, bending, backing, placing in position, lapping and/or welding wherever required, tyring with binding wire and anchoring to thr adjoing members wherever necessary complete as per design (laps, hooks do with TWT bars Fe500 (Si No : 4.46.2 of KPWD 18-19) Basic Rate 70782 Add 10% For area weightage (Mangalore City) Rate 77860.20 MT KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of sub-grade with approved material Grave/Murrum with all life & 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 earls) watering charges & compaction by vibratory rollerom public as per specifications (including cost of earls) add 10% For area weightage (Mangalore City) Rate 77860.20 MT KSRRB M300-Construction of Subgrade. KSRRB M300-55. Construction of sub-grade with approved material Grave/Murrum with all lifes & leads, transporting to site, spreading, grading to required slope and compacted to meet required slope and social Grave/Murrum with all lifes & leads, transporting to site, spreading, grading to required slope and compacted to meet required slope and social Grave/Murrum with all lifes & leads, transporting to site, spreading, grading to required slope and compacted to meet required slope and social Grave/Murrum with all lifes & leads to the site strain 17.4 (SRRB M600-1.Construction of Subgrade with coarse and fine 3000 PC cement @ 160Kgs.with 2500 Total 512 City T x 20 K Tix x 1.2 K z 20 K Tix x 1.2 K z 20 K Tix x 1.2 K z 20 K R R M600-1.Construction of dry lean cement concrete site agregate at 0.8 Gcum and fine aggregate cement ration not to exce 151.1 Aggregate gradation after blending to be as per Table 600-1, cement 21 content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days, mixed in a babtring plant, transported to site, Jaid with a paver with lectoroic seasor, compacting with A 10 to tones double drum vibratory		KSRB 4.9.2 : Providing T.M.T steel reinforcement for RCC work inc	luding		
binding wire and anchoring to thr adjoing members wherever necessary complete as per design (laps.hooks and watsing shall not be measured and paid) cost of materials.labour.HOM of machinary complete as per specifications.Specification No. KBS4.6.3. do with Thar Fars FeS00 (SI No : 4.46.2 of KPWD 18-19) Basic Rate 70782 Add 10% For area weightage (Mangalore City) Rate KSRRE M300-Construction of Subgrade. KSRRE M300-55. Construction of sub-grade with approved material Grave(Murrum with all ifts 6 ales, 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 8. Compaction by vibratory roller compaction by vibratory roller to 97% of proctors density) MORTH Specification No. 305/KPWD 18-19, 19, 62, 17.1 and 17.4) 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 Roady=2 DRs/Tkm x 1.28 T x 20km 51.2 Stub Total 564.2 4dd 10% For area weightage (Mangalore City) Rate 620.62 Cum KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:510 OPC cement @160Kgs.with 25mm and down size graded granite/trapbasalt metal coarse aggregate at 0.86cum and fine aggregate 20 soften to be determined during trail length construction, concrete strength not to be leas than 10040 at 7 days.mixed in a batching plant transported to site.Adm th a paver with electronic sensor, compacting with 8- 10 to ness double drum whatary roller, finishing and curing complete as per specifications.Moth specification No.601				g wherever requi	red,tying with
19 and wastage shall not be measured and paid) cost of materials Jabour, 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) Basic Rate 70782 Add 10% For area weightage (Mangalore City) 7078.2 7078.2 Add 10% For area weightage (Mangalore City) 7078.2 7078.2 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 & constaction by Vintoaro rollorcompaction by Vintardy rollor to 97% of proctors density) MORTH Specification No. 305/KPWD 18-19,19.62,17.1 and 17.4) Basic Rate 513 Add 20M lead (17.4 KSRRB M100-4,1-Cost of haulage excluding loading and unloading MORTH-100/Chapter 1-case 1-Surface 512 Sub Total 564.2 4dd 10% For area weightage (Mangalore City) Rate 620.62 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 anggregate of 0.86cum and fine aggregate 0.9600.4000 mig to 160.4000 mig to 160.					
Bysecifications.Specification No. KBS4.6.3. do with TMT bars Fe600 (S) No : 4.46.2 of KPWD 18-19) Basic Rate 7078.2 Add 10% For area weightage (Mangalore City) 7078.2 KSRRB M300-Construction of Subgrade. KSRRB M300-56. Construction of sub-grade with approved material Gravel/Murru with all lifts keads. 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 roty offs of proctors density) MORTH Specification No. 305IKPWD 18-19,19.62,17.1 and 17.4) Basic Rate 513 Add 20Km lead (17.4 KSRRB M100-4,1-Cost of haulage excluding loading and unloading MORTH-100Chapter 1-case 1-Surface Road)=2.0Rs/Tkm x 1.28 T x 20km 564.2 Add 10% For area weightage (Mangalore City) K564.2 610.2 Add 10% For area weightage (Mangalore City) 554.2 600.62.Cum KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs.with 25mm and down size graded grantetrap/basalt metal coarse aggregate at 0.86cum and fine aggregate conting to be less than 10Mpa at 7 21 content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 21 content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 21	10				
do with TMT bars Fe500 (S) No : 4.46.2 of KPWD 18-19) Basic Rate 70782 Add 10% For area weightage (Mangalore City) 7078.2 KSRRE 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/KPWD 18-19, 19.62, 17.1 and 17.4) Basic Rate 513 Add 20M relad (17.4 KSRRB M100-4.1-Cost of haulage excluding loading and unloading MORTH-100/Chapter 1-case 1-Surface Road)=2.0Rs/Tmx 1.28 T x 20km 512 Sub Total 564.2 Add 10% For area weightage (Mangalore City) 656.42 Add 10% For area weightage (Mangalore City) 656.42 Out 10% Non size graded granite/trap/basalt metal coarse angergate colloning to be lass 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 durin vibratory roller, finishing and curing complete as per specifications. Morth specification No.601 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 0.058cum solub-base cover prepared sub grade with (coarse and fine aggregate collows. Mothe at 7 days, mixed in a b	19			or machinary co	
(SI No : 4.46.2 of KPWD 18-19) Basic Rate 70782 Add 10% For area weightage (Mangalore City) Rate 778.2 Mather 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) 20 MORTH 1500/Chapter 1-case 1-Surface 513 Add 10% For area weightage (Mangalore City) Rate 514.2 Add 10% For area weightage (Mangalore City) Rate 620.2 Sub Total 564.2					
Basic Rate 70782 Add 10% For area weightage (Mangalore City) Rate 7786.20 MT KSRRE M300-Construction of Subgrade. KSRRB M300-55. Construction of sub-grade with approved material Cravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compaction by Vibratory roller compacting by Vibrating to compacting by Vibrating compacting by Vibrat					
Add 10% For area weightage (Mangalore City) 7768.2 Rate 7768.2.0 MT 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. 305IKFWD 18-19,19.62,17.1 and 17.4) 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 51.2 Sub Total 564.2 Add 10% For area weightage (Mangalore City) Rate 620.62 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 @ 0.56cum Sub-base over prepared sub grade with (coarse and fine aggregate commert rolon not to be determined during trail length construction, concrete strength not to be less than 10Mp at 7 21 content to be determined during trail length construction, concrete strength not to be less than 10Mp at 7 22 dat 10% For area weightage (Mangalore City) 4048 Add 10% For area weightage (Mangalore City) 4048 Content to be determined during trail length construction, concrete strength not to be less than 10Mp at 7 10 tonnes d		(STN0 : 4.40.2 OF NF WD 16-19)			
Rate 77860.20 MT 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. 305IKFWD 18-19,19.62,17.1 and 17.4) 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.128 T x 20km 51.2 Sub Total 564.2 Add 10% For area weightage (Mangalore City) Rate 620.62 Cum KSRRB M600-1. Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granife/trap/basait metal coarse aggregate at 0.86cum and fine aggregate comment ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement 21 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 tomes double drum wibratory roller, finishing and curing complete as per Table 600-1, cement 22 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 tomes double drum wibratory roller, finishing and curing complete as per Table 600-1,		Basic Rate		70782	
Rate 77860.20 MT 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 stope 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) 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 51.2 Sub Total 564.2 Add 10% For area weightage (Mangalore City) Rate 620.62 Cum 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/basait metal coarse aggregate at 0.86cum and fine aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement 21 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 tomes double drum wibratory roller, finishing and curing complete as per specifications.Morth specification No.601 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/basait metal coarse aggregate at 0.86cum and fine aggregate commet ration not to excee 15:1. Aggregate gradiatin after blending to be as per Table		Add 10% For area weightage (Mangalore City)		7078.2	
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) 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 (Mangatore City) 66.42 Add 10% For area weightage (Mangatore City) 86.42 Contraction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with ZSmm 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 16:383) aggregate cement ration not to excee 15:1. Aggregate gradiation after blending to be as per Table 600-1, cement 40 to none double drum wibratory roller, finishing and curing complete as per specifications.Morth specification No.601 KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 20 mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement 0.58cum Sub-base over prepared sub grade with (ccarse and fine aggregate confirming to 15:383) aggregate cement			Rate	77860.20	МТ
20 material Grave/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) 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 51.2 Road)=2.0Rs/Tkm x 1.28 T x 20km 51.2 Sub Total 564.2 Add 10% For area weightage (Mangalore City) Rate 620.62 Cum 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/basait metal coarse aggregate at 0.86cum and fine aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement 20 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 tomes double drum vibratory roller, finishing and curing complete as per specifications.Morth specification No.601 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/basait metal coarse aggregate at 0.86cum and fine aggregate @ 0.96cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:333) aggregate common No.601 KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160K					
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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	22	25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse and fine a cement ration not to excee 15:1. Aggregate gradation after bler content to be determined during trail length construction, concrete days,mixed in a batching plant,transported to site,Manua compactor,finishing and curing complete as per MORTH specificati (RA attached) Basic Rate	5 with 1: pregate a aggregate nding to e strength illy laid ons Clau	5:10 OPC cemer t 0.86cum and fi e confirming to IS be as per Table n not to be less and compact se 601. 3680 3680	Cum nt @160Kgs,with ne aggregate @ 5:383) aggregate e 600-1, cement than 10Mpa at 7 ing with palte
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 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 Basic Rate 	22	25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse and fine a cement ration not to excee 15:1. Aggregate gradation after bler content to be determined during trail length construction, concrete days,mixed in a batching plant,transported to site,Manua compactor,finishing and curing complete as per MORTH specificati (RA attached) Basic Rate Add 10% For area weightage (Mangalore City)	5 with 1: gregate a aggregate nding to e strength illy laid ons Clau Rate	5:10 OPC cemer t 0.86cum and fi e confirming to IS be as per Table n not to be less and compact se 601. 3680 368 4048.00	Cum nt @160Kgs,with ne aggregate @ S:383) aggregate e 600-1, cement than 10Mpa at 7 ing with palte Cum
23 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 Basic Rate 5497	22	25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse and fine a cement ration not to excee 15:1. Aggregate gradation after bler content to be determined during trail length construction, concrete days,mixed in a batching plant,transported to site,Manua compactor,finishing and curing complete as per MORTH specificati (RA attached) Basic Rate Add 10% For area weightage (Mangalore City) Providing and laying cement concrete using 20mm and down	5 with 1: gregate a aggregate nding to e strength illy laid ons Clau Rate size grar	5:10 OPC cemer t 0.86cum and fi e confirming to IS be as per Table n not to be less and compact se 601. 3680 368 4048.00 nite coarse aggr	Cum nt @160Kgs,with ne aggregate @ S:383) aggregate e 600-1, cement than 10Mpa at 7 ing with palte Cum regates and fine
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 Basic Rate	22	25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse and fine a cement ration not to excee 15:1. Aggregate gradation after bler content to be determined during trail length construction, concrete days,mixed in a batching plant,transported to site,Manua compactor,finishing and curing complete as per MORTH specificati (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	5 with 1: gregate a aggregate nding to e strength illy laid ons Clau Rate size grar thick laye	5:10 OPC cemer t 0.86cum and fi e confirming to IS be as per Table n not to be less and compact se 601. 3680 368 4048.00 nite coarse aggrers and well com	Cum t @160Kgs,with ne aggregate @ S:383) aggregate e 600-1, cement than 10Mpa at 7 ing with palte Cum egates and fine pacted including
CE, C&B letter, AE2, 2015-16, Dt. 12-09-2015 Ready mixed Cement concrete M-25 Basic Rate 5497		25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse and fine a cement ration not to excee 15:1. Aggregate gradation after bler content to be determined during trail length construction, concrete days,mixed in a batching plant,transported to site,Manua compactor,finishing and curing complete as per MORTH specificati (RA attached) Basic Rate Add 10% For area weightage (Mangalore City) Providing and laying cement concrete using 20mm and down a aggregates of ready mixed concrete for RCC works laid in 15 em vibrating curing etc., for all super structure works with all lead an	5 with 1: gregate a aggregate nding to e strength illy laid ons Clau Rate size grar thick laye	5:10 OPC cemer t 0.86cum and fi e confirming to IS be as per Table n not to be less and compact se 601. 3680 368 4048.00 nite coarse aggrers and well com	Cum t @160Kgs,with ne aggregate @ S:383) aggregate e 600-1, cement than 10Mpa at 7 ing with palte Cum egates and fine pacted including
Ready mixed Cement concrete M-25 Basic Rate 5497		25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse and fine a cement ration not to excee 15:1. Aggregate gradation after bler content to be determined during trail length construction, concrete days,mixed in a batching plant,transported to site,Manua compactor,finishing and curing complete as per MORTH specificati (RA attached) Basic Rate Add 10% For area weightage (Mangalore City) Providing and laying cement concrete using 20mm and down a aggregates of ready mixed concrete for RCC works laid in 15 em vibrating curing etc., for all super structure works with all lead an steel and fabrication charges)	5 with 1:: gregate a aggregate nding to e strength illy laid ons Clau Rate size grar thick laye id lift etc.	5:10 OPC cemer t 0.86cum and fi e confirming to IS be as per Table n not to be less and compact se 601. 3680 368 4048.00 nite coarse aggr ers and well com ., complete. (exc	Cum t @160Kgs,with ne aggregate @ S:383) aggregate e 600-1, cement than 10Mpa at 7 ing with palte Cum regates and fine spacted including sulsive of cost of
Basic Rate 5497		25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse and fine a cement ration not to excee 15:1. Aggregate gradation after bler content to be determined during trail length construction, concrete days,mixed in a batching plant,transported to site,Manua compactor,finishing and curing complete as per MORTH specificati (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 an steel and fabrication charges) Note : The RMC should be obtained only from the plants cent	5 with 1:: gregate a aggregate nding to e strength illy laid ons Clau Rate size grar thick laye id lift etc.	5:10 OPC cemer t 0.86cum and fi e confirming to IS be as per Table n not to be less and compact se 601. 3680 368 4048.00 nite coarse aggr ers and well com ., complete. (exc	Cum t @160Kgs,with ne aggregate @ S:383) aggregate e 600-1, cement than 10Mpa at 7 ing with palte Cum regates and fine spacted including sulsive of cost of
		25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse and fine a cement ration not to excee 15:1. Aggregate gradation after bler content to be determined during trail length construction, concrete days,mixed in a batching plant,transported to site,Manua compactor,finishing and curing complete as per MORTH specificati (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 an steel and fabrication charges) Note : The RMC should be obtained only from the plants cen CE, C&B letter, AE2, 2015-16, Dt. 12-09-2015	5 with 1:: gregate a aggregate nding to e strength illy laid ons Clau Rate size grar thick laye id lift etc.	5:10 OPC cemer t 0.86cum and fi e confirming to IS be as per Table n not to be less and compact se 601. 3680 368 4048.00 nite coarse aggr ers and well com ., complete. (exc	Cum t @160Kgs,with ne aggregate @ S:383) aggregate e 600-1, cement than 10Mpa at 7 ing with palte Cum regates and fine spacted including sulsive of cost of
		25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse and fine a cement ration not to excee 15:1. Aggregate gradation after bler content to be determined during trail length construction, concrete days,mixed in a batching plant,transported to site,Manua compactor,finishing and curing complete as per MORTH specificati (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 an steel and fabrication charges) Note : The RMC should be obtained only from the plants cen CE, C&B letter, AE2, 2015-16, Dt. 12-09-2015	5 with 1:: gregate a aggregate nding to e strength illy laid ons Clau Rate size grar thick laye id lift etc.	5:10 OPC cemer t 0.86cum and fi e confirming to IS be as per Table n not to be less and compact se 601. 3680 368 4048.00 nite coarse aggr ers and well com ., complete. (exc	Cum t @160Kgs,with ne aggregate @ S:383) aggregate e 600-1, cement than 10Mpa at 7 ing with palte Cum regates and fine spacted including sulsive of cost of
		25mm and down size graded granite/trap/basalt metal coarse agg 0.58cum Sub-base over prepared sub grade with (coarse and fine a cement ration not to excee 15:1. Aggregate gradation after bler content to be determined during trail length construction, concrete days,mixed in a batching plant,transported to site,Manua compactor,finishing and curing complete as per MORTH specificati (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 an steel and fabrication charges) Note : The RMC should be obtained only from the plants cen CE, C&B letter, AE2, 2015-16, Dt. 12-09-2015 Ready mixed Cement concrete M-25	5 with 1:: gregate a aggregate nding to e strength illy laid ons Clau Rate size grar thick laye id lift etc.	5:10 OPC cemer t 0.86cum and fi e confirming to IS be as per Table n not to be less and compact se 601. 3680 368 4048.00 nite coarse aggr ers and well com ., complete. (exc Quality Council	Cum t @160Kgs,with ne aggregate @ S:383) aggregate e 600-1, cement than 10Mpa at 7 ing with palte Cum regates and fine spacted including sulsive of cost of

		Rate	6046.70	Cum
24	KSSRRB M600-2.Construction of unreinforced,dowel jointed,pla prepared sub base with 25mm and down size graded granite metal 3 Its confirming to IS9103-1999 reaffirmed 2008(Coarse and fine ag 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 chr sealent primer, joints sealant, debonding strip, dowel bars, the compound,finishing to lines and grades as per drawing complet 602.with M40 @420Kg per cum Cement,C.A,0.67 cum F.A.044Cun (SI No : 22.2.2 of KPWD 18-19)	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 f vision of contra nts filler,separati admixtures as a	uperplastisizer at 3383) mixed in a fixed form paver ction, expansio, on memberane, pproved, curing
	Basic Rate		5765	
	Add 10% For area weightage (Mangalore City)		576.5	
		Rate	6341.50	Cum
25	Providing and placing joint sealant compound of cold polysulphide to required width, sand blasting the groove face if recommended groove with air compressor, insertion of debonding strip, priming manufacturer recommends and pouring the sealant all complete into on drawing and as per MORTH specifications clause 602. (Non SOR Item)	by the se g the sic	ealant manufactu les of the seala	rer, cleaning the nt if the sealant
1	Rate Approved as per EOI by MD MSCL Mangalore,Refer	Data	445	Dref
	Sr.No.2	Rate	115	Rmt
26	KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints in concrete pavement using epoxy mortar concrete complete No.3005.1 (SI No : 35.8 of KPWD 18-19)			
	Basic Rate		331	
	Add 10% For area weightage (Mangalore City)		33.1	
		Rate	364.10	Rmt
27	Providing and laying at or near ground level factory made Median k in position to the required line, level and curvature, jointed with cerr including making joints with or without grooves (thickness of joints than 5mm), including making drainage opening wherever required o (Precast C.C. kerb stone shall be approved by Engineer-in-charge) (RA Attached)	ient mort s except complete	ar 1:3 (1 cement at sharp curve s	: 3 coarse sand), shall not to more
	Rate Arrived as per Rate analysis			
	Basic Rate		17708.82	
	Add 10% For area weightage (Mangalore City)	D -4	1770.88	
		Rate	19479.70	Cum
28	Providin and fixing pre cast solid concrete Kerb stones as per the d with CM 1:3 and finishing cutting, including cost of machinery,loading,unloading,lead and lift,transportation etc.,comple (SI No : 5.3 of KPWD 18-19)	all ma ete	aterials,labour,hir	
	Basic Rate of one kerb stone of M15 Grade =0.0279 cum	Rate	421	
	Rate for 1 cum of Kerb stone		15089.61	
	Add diferance in cement content of M15 to M20 Grade		392	
	Total Rate		15481.61	
	Add 10% For area weightage (Mangalore City)	Rate	1548.16 17029.77	
		Nale	1/029.//	Sum

	Providin and fixing pre cast solid concrete water table(longitudinal	nutter) as	ner the drawing	made out of CC				
	M20 and jointed with CM 1:3 and finishing cutting, including co		materials, labour	nire charges of				
29	machinery,loading,unloading,lead and lift,transportation etc.,comple	ete						
	(SI No : 5.3 of KPWD 18-19)							
	Basic Rate of one kerb stone of M15 Grade =0.0279 cum	Rate	421					
		Nate						
	Rate for 1 cum of Water Table		15089.61					
	Add diferance in cement content of M15 to M20 Grade		392					
	Total Rate		15481.61					
	Add 10% For area weightage (Mangalore City)		1548.16					
		Rate	17029.77					
		Rale	1/029.//	Cum				
30	KSRRB 800-1. Painting two coats after filling the surface with synth	netic enar	nel paint in appro	oved shades on				
30	new plastered concrete surfaces, with materials, labour complete a	s per MO	ORTH specification	ons section 8.				
	(SI No : 24.1 of KPWD 18-19)							
	Basic Rate		80					
	Add 10% For area weightage (Mangalore City)		8					
		Rate	-	Sqm				
		Nale	00	Sqiii				
31	P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Ma	nhole for	electrical ducting					
	(Rate analysis attached)							
	Rate Arrived as per Rate analysis							
	Basic Rate		10764					
	Discount 30%		-3229.2					
	Sub Total		7534.8					
	Fixing Charges @5%		376.74					
		Rate	7911.54					
		Nale	7311.34	1105.				
32	P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raise	ed tootpat	h on SWD.					
	(Rate analysis attached)	1		1				
	Basic Rate		7179					
	Discount 30%		-2153.7					
	Sub Total		5025.3					
	Fixing Charges @5%		251.265					
		Rate	5276.565					
		Indio	0210.000					
	P/E EDD Water guilly against with frame (2ET) 600mm/E00 mm at 1	l faata	ath					
33	P/F FRP Water gully cover with frame (25T) 600mmx500 mm at le	елеі тоогр	aul.					
	(Rate analysis attached)							
	Basic Rate		10765					
	Discount 30%		-3229.5					
	Sub Total	-						
			7535.5					
	Fixing Charges @5%	<u> </u>	376.775					
		Rate	7912.28	Nos.				
	KSRRB M300- Wrought iron and mild steel welded work KSRR	B M300-	18. Wrought iro	n and mild steel				
	welded work (using angles, square bars, tees and channel grills, g							
24	guards of any size and design etc. including cost of screens and							
34	fixed in position but without the cost of excavation and concrete							
	complete as per specifications.(KPWD,18-19,SI.No.19.97)		a which will be	Paid separately				
	[0, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1							
	Basic Rate		7187					
	Add 10% For area weightage (Mangalore City)		718.7					
		Rate		Quintal				
		Tale	1303.1	Santa				
1		1	1	1				

35	KSRB 12-8.2 : Constructing brick masonry inspection chamber inside dimension) for pipeline with one or two inlets, using tab designation 50 in cement mortar 1:5, C.I cover with frame (light du weight 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 downsiz with 40mm and downsize granite metal inside plastering 12mm thic with a floating coat of cement on walls and bed concrete complete materials, labour charges, curing complete as per specifications. Sp (P.No. 74/ I.No.11.52 of PWD SR 2015-16)	ole mould ity) 455x(cover 23 ze granite k with ce as per s	ded non-modular 610mm internal of 3kg and weight of e metal , foundat ment mortar 1:3, standard design	bricks of class dimensions, total of frame 15 kg) ion concrete M 5 finished smooth
	Basic Rate		8296	
	Add 10% For area weightage (Mangalore City)		829.6	
		Rate	9125.6	
36	Providing gully pipe lowering,laying of PVC 100 mm dia pipes to t and grade as indicated in drawings/design and hydraulically testing jointing materials,testing apparatus and water for testi g etc as o No.41,Item No.7,KUWSDB SOR 2016-17) Basic Rate	g of the p	pipe line.The rate	shall include all
	Add 10% on Labor Charges=Rs.47,For area weightage		201	
	(Mangalore City)		4.7	
		Rate	301.7	Rm
		-		
37	KSRB 11-18-17.1 : Providing and fixing sand cast iron trap of 100m screwed down or hinged grating with or without vent arm including of floors, cost of materials, labour, testing, complete as per specification (PWD SR 2018-19, SI.No.12.89)	cutting ar	nd making good t ification No. KBS	he walls and \$ 11.1.10.
	Basic Rate		830	
	Add 10% For area weightage (Mangalore City)		83	
	ļ	Rate	913	Nos.
42	KSRRB M2200- Providing Weep Holes KSRRB M2200-8. Providing Reinforced concrete abutment, wing wall / return wall with 100 mm width of the structure with slope of 1V :20H towards drawing foce. C Specifications complete as per specifications MORTH Specification (PWD SR 2018-19, SI.No.28.10)	dia AC p Complete	ipe, extending the as per drawing a 5 & 2200	rough the full
	Basic Rate		147	
	Add 10% For area weightage (Mangalore City)	-	4.7	
		Rate	151.7	Nos.
39	KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-2 cement concrete pipe duct, 300 mm dia, across the road (new con- cuts and toe of slope to toe of slope in fills, constructing head walks 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 the be above higher than ground level to prevent entry of water and dia drawings complete as per specifications. Case-III :Triple row for the (PWD SR 2018-19,SI.No.24.36)	struction) s at both 8-1997, b pipe at be made rt, all as), extending from ends, providing edded on a 0.3 least half dia of leak proof, inver per IRC: 98 - 199	drain to drain in a minimum fill of m thick layer of pipe subject to t level of duct to
	Basic Rate		5022	
	Add 10% For area weightage (Mangalore City)	L	502.2	
		Rate	5524.20	Rm
1			1	1

40	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)					
	Basic Rate		1794			
	Deduct GST @18%		-322.92			
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item		78			
	No.50,Pg.No.123)					
	Add 10% For area weightage (Mangalore City)		7.8			
		Rate	1556.88			
41	Providing and laying Dia 160mm HDPE Electrical pipe Conduits w dimensional ratio of 13.5,Deflection not greater than 5% when exp 90°C under the over burden soil presuure and other physical propo NEMA TC7.The expected service life of HDPE pipe conduits ar years.(Market Rate)	oosed to t erties cor	he normal opera nforming to AST sories shall not	ting temparature MF 2160 and /or be less than 50		
	Basic Rate		1215			
	Deduct GST @18%		-218.7			
	Labour Cost for laying and Jointing-KUWSDB,HDPE Pipes,Item No.50,Pg.No.123)		66			
	Add 10% For area weightage (Mangalore City)		6.6			
		Rate	1068.90	Rm		
42	Providing and Fixing Spacers for Power Ducts of size 200 mm, Spacers shall be made of ABS raw material. (Market rate)	to be pla	aced at an inter	val of 1.5 meter.		
	Basic Rate (without GST@18%)		1003			
		Rate	1003.00	Nos.		
43	Providing and Fixing Spacers for Power Ducts of size 160 mm, Spacers shall be made of ABS raw material. (Market rate)	to be pla				
	Basic Rate (without GST@18%)		1947			
		Rate	1947.00	Nos.		
44	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)					
	Basic Rate		685			
	Deduct GST @18%		-123.3			
	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		
45	Supplying and Application charges required for stamping the fresh included in this item) including finishing and colouring the top surface 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 requir	ed level,shape		
		T		1		
	Basic rate		624.00			
		Rate	624.00	Sqm		
46	Cutting of Control joints panels(in Footpath) at suitable required lo	cations us				
	Basic rate		59.00			
		Rate	59.00	Sqm		
·	Page 60		•			

	Providing and laying heavy duty cobble stones 75mm thick, using	cement a	and course sand	for manufacture			
	of blocks of approved size, shape and colour with a minimum com	pressive	strength of 281	kg per sqm over			
	30mm thick sand bed (average thickness) and compacting with						
47	force thereby forcing part of sand underneath to come up in betwee						
41							
	joints into its final level, including cost of materials, labour and HOM of machineries complete as						
	specifications.						
	(KPWD SR 2018-19,SI No : 14.7)						
	Basic rate		1114				
	Add 10% For area weightage (Mangalore City)		111.4				
		Rate	1225.40				
	KSRRB M500-17. Providing and laying dense graded bituminous	macada	n using crushe	d anarenates of			
	specified grading, premixed with VG30 grade bituminous binder a						
	laying to the required grade, level and alignment, rolling with smoot						
48	achieve the desired compaction as per MORTH table 500-10 c						
	specifications MORTH Specification No. 507 -using 100/120 TPI			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)				
	Dania meta		7004				
	Basic rate		7284				
	Add 10% For area weightage (Mangalore City)		728.4				
		Rate	8012.40	Cum			
	KSRRB M500-19. Providing and laying bituminous concrete 40 m	m thick v	with hot mix plan	t, 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						
	vibratory and tandem rollers to achieve the desired compaction						
49	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 mm						
			70 VO-50 Ditume	11			
	Basic rate		8761				
	Add 10% For area weightage (Mangalore City)		876.1				
		Poto	9637.10				
		Rate	9037.10	Cum			
	KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing						
	cautionary, mandatory & Informatory signboards made out of cul	be corne	r micro prismatio	c grade sheeting			
	confirming to type XI standards of IRC:67:2012 specifications & fil	xed over	4mm thick alum	inium composite			
	panel sheet having minimum 0.30 mm thick aluminum skin on bo						
	25X25X3mm MS angle and mounted on 75 mm dia OR 75X75X6n			••			
	with clear height of not less than 2.10 m from the ground level to the						
	ground level, the sign post should be painted with be coat of re						
50			•	•			
	enamel paint of black and white colour with bands of 30 cm height						
	means of foundation with M20 grade cement concrete of 45cmX45						
	all materials, equipment, machinery & labour with all leads a		loading charge	s necessary for			
	satisfactory completion of the works as directed be engineer in-cha	rge.					
	10		f f				
	10 years warranty for Retro Reflective Sheeting from the original sh						
	IRC: 2012 & a certified copy of three years outdoor exposure report	t from an	independent tes	t lab for the			
	product offered shall be obtained from the supplier.						
	900MM Equilateral Triangle-TYPE XI						
	(KPWD 18-19,SI No : 24.2.1)						
			0544				
	Basic Rate		3511				
	Add 10% For area weightage (Mangalore City)		351.1				
		Rate	3862.10	Nos			

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51	KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing, cautionary, mandatory & Informatory signboards made out of cube confirming to type XI standards of IRC:67:2012 specifications & fixe panel sheet having minimum 0.30 mm thick aluminum skin on both 25X25X3mm MS angle and mounted on 75 mm dia OR 75X75X6m with clear height of not less than 2.10 m from the ground level to the ground level. the sign post should be painted with be coat of red ox enamel paint of black and white colour with bands of 30 cm height a means of foundation with M20 grade cement concrete of 45cmX456 all materials, equipment, machinery & labour with all leads and lifts, satisfactory completion of the works as directed be engineer in-char	corner m ed over 4 sides & 1 m mild s e bottom ide paint alternativ cmX60cn loading	icro prismatic gra mm thick alumini fixed over a supp teel angle to Tota of the sign boarc and two coats of ely firmly fixed to n including cost &	ade sheeting um composite ort frame of al height 2.70 m I & 60mm below synthetic the ground by a conveyance of
	10 years warranty for Retro Reflective Sheeting from the original sh IRC: 2012 & a certified copy of three years outdoor exposure report product offered shall be obtained from the supplier. 900MM Octagon Stop Board-TYPE XI (KPWD 18-19,SI No : 24.2.6)		independent test	t lab for the
	Basic Rate		4958 495.8	
	Add 10% For area weightage (Mangalore City)	Rate	495.8 5453.80	
		Rate	5453.60	1105
52	25X25X3mm MS angle and mounted on 75 mm dia OR 75X75X6n with clear height of not less than 2.10 m from the ground level to th ground level. the sign post should be painted with be coat of re enamel paint of black and white colour with bands of 30 cm height means of foundation with M20 grade cement concrete of 45cmX45 all materials, equipment, machinery & labour with all leads a satisfactory completion of the works as directed be engineer in-char 10 years warranty for Retro Reflective Sheeting from the original sh IRC: 2012 & a certified copy of three years outdoor exposure report	e bottom d oxide : alternati cmX60cr nd lifts, rge.	of the sign board paint and two co ively firmly fixed m including cost loading charges	d & 60mm below bats of synthetic to the ground by & conveyance of s necessary for er clause 6.9 in
	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)		311.8	
		Rate	3429.80	Nos
	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 standa over 4 mm thick aluminium composite panel sheet having minimun fixed over a support frame of 25x25x3 mm MS angle and mounted angle of total height 2.70m with clear height of not less than 2.10 m sign board & 60 cm below ground level. The sign post should be pa white colour with brands of 30 cm height alternatively firmly fixed to M20 grade cement concrete of 45 cm x45 cm x 60 cm including co equipment, machinery & labour with all leads and lifts, loading charg of the work as directed by engineer in charge. 10 years warranty for sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified of report from an independent test lab for the product offered shall be (KPWD 18-19,SI No : 24.3)	formatory rds of IR 0.30 thic on 75mn from the inted with the grou st & conv ges nece retro ref copy of th	y signboards mad C :67:2012 speci k aluminium skin dia OR 75x75x0 ground level to t h one coat of red nd by means of f yeyance of all ma ssary for satisfac flective sheeting ree years outdoo	de out of cube fications & fixed on both sides & Smm Mild steel he bottom of the oxide paint and oundation with iterials, ctory completion from the original r exposure
L				

	Basic Rate		6927	
	Add 10% For area weightage (Mangalore City)		692.7	
		Rate	7619.70	Sqm
	KSRRB M800-2. Retro-Reflectorised Traffic Signs - Manufacturing			
	reflectorised cautionary, mandatory and informatory signboards ma			
	grade sheeting confirming to 600x800 MM type XI standards of IR	C :67:201	12 specifications	& fixed over 4
	mm thick aluminium composite panel sheet having minimun 0.30 t	hick alum	inium skin on bot	th sides & fixe
	over a support frame of 25x25x3 mm MS angle and mounted on 7	5mm dia (OR 75x75x6mm	Mild steel ang
54	of total height 2.70m with clear height of not less than 2.10 m from	the grour	nd level to the bo	ttom of the sig
	board & 60 cm below ground level. The sign post should be painte	d with one	e coat of red oxid	le paint and
	white colour with brands of 30 cm height alternatively firmly fixed to	o the grou	ind by means of t	foundation with
	(KPWD18-19,24.2.4)	0		
	(
	M20 grade cement concrete of 45 cm x45 cm x 60 cm including c			
	equipment, machinery & labour with all leads and lifts, loading cha			
	of the work as directed by engineer in charge. 10 years warranty for			
	sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified	copy of th	ree years outdoo	or exposure
	report from an independent test lab for the product offered shall be	obtained	from the supplie	er.
	Basic Rate		4049	
	Basic Rate Add 10% For area weightage (Mangalore City)		4049	
	Basic Rate Add 10% For area weightage (Mangalore City)	Rate	404.9	
		Rate		
	Add 10% For area weightage (Mangalore City)		404.9 4453.90	Nos
	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provi	ding and	404.9 4453.90 fixing of road stu	Nos Id 100x 100 m
	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provi diecast in aluminium, resistant to corrosive effect of salt and g	ding and rit, fitted	404.9 4453.90 fixing of road stu with lense reflect	Nos Id 100x 100 m tors, installed
55	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provi diecast in aluminium, resistant to corrosive effect of salt and g concrete or asphaltic surface by drilling hole 30 mm upto a de	ding and rit, fitted epth of 6	404.9 4453.90 fixing of road stu with lense reflec 0 mm and bedd	Nos Id 100x 100 m stors, installed led in a suita
55	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provi diecast in aluminium, resistant to corrosive effect of salt and g 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 c	ding and rit, fitted epth of 6	404.9 4453.90 fixing of road stu with lense reflec 0 mm and bedd	Nos Id 100x 100 m stors, installed led in a suita
55	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provi diecast in aluminium, resistant to corrosive effect of salt and g concrete or asphaltic surface by drilling hole 30 mm upto a de	ding and rit, fitted epth of 6	404.9 4453.90 fixing of road stu with lense reflec 0 mm and bedd	Nos Id 100x 100 m stors, installed led in a suita
55	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provi diecast in aluminium, resistant to corrosive effect of salt and g 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 c (KPWD 18-19,SI No : 24.41)	ding and rit, fitted epth of 6	404.9 4453.90 fixing of road stu with lense reflec 0 mm and bedd is per specificatio	Nos Id 100x 100 m stors, installed led in a suita
55	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provi diecast in aluminium, resistant to corrosive effect of salt and g 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 c (KPWD 18-19,SI No : 24.41) Basic Rate	ding and rit, fitted epth of 6	404.9 4453.90 fixing of road stu with lense reflec 0 mm and bedd is per specification 289	Nos Id 100x 100 m stors, installed led in a suita
55	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provi diecast in aluminium, resistant to corrosive effect of salt and g 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 c (KPWD 18-19,SI No : 24.41)	ding and rit, fitted v epth of 60 omplete a	404.9 4453.90 fixing of road stu with lense reflec 0 mm and bedd is per specificatio 289 28.9	Nos Id 100x 100 m tors, installed led in a suita ons
55	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provi diecast in aluminium, resistant to corrosive effect of salt and g 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 c (KPWD 18-19,SI No : 24.41) Basic Rate	ding and rit, fitted epth of 6	404.9 4453.90 fixing of road stu with lense reflec 0 mm and bedd is per specification 289	Nos Id 100x 100 m tors, installed led in a suita ons
55	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provide a concrete or asphaltic surface by drilling hole 30 mm upto a debituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 c (KPWD 18-19,SI No : 24.41) Basic Rate Add 10% For area weightage (Mangalore City)	ding and rit, fitted epth of 60 omplete a Rate	404.9 4453.90 fixing of road stu with lense reflec 0 mm and bedd is per specification 289 28.9 317.90	Nos Id 100x 100 m tors, installed led in a suita ons Nos.
55	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provide a studie and gradie	ding and rit, fitted epth of 60 omplete a Rate Reflectri	404.9 4453.90 fixing of road stu with lense reflec 0 mm and bedd is per specification 289 28.9 317.90 sing Glass Bea	Nos Id 100x 100 m stors, installed led in a suita ons Nos. Ids on Concr
55	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Providiecast in aluminium, resistant to corrosive effect of salt and g concrete or asphaltic surface by drilling hole 30 mm upto a debituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 c (KPWD 18-19,SI No : 24.41) Basic Rate Add 10% For area weightage (Mangalore City) Road Marking with hot applied Thermoplastic Compound with Surface:Providing and laying of hot applied thermoplastic comp	ding and rit, fitted epth of 60 omplete a Rate Reflectri ound 2.5	404.9 4453.90 fixing of road stu with lense reflec 0 mm and bedd as per specification 289 28.9 317.90 sing Glass Bea mm thick includ	Nos Id 100x 100 m tors, installed led in a suita ons Nos. Ids on Concr ing reflectoris
55	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provide a studie and gradie	ding and rit, fitted epth of 60 omplete a Rate Reflectri ound 2.5	404.9 4453.90 fixing of road stu with lense reflec 0 mm and bedd as per specification 289 28.9 317.90 sing Glass Bea mm thick includ	Nos Id 100x 100 m tors, installed led in a suita ons Nos. Ids on Concr ing reflectoris
	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Providiecast in aluminium, resistant to corrosive effect of salt and g concrete or asphaltic surface by drilling hole 30 mm upto a debituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 c (KPWD 18-19,SI No : 24.41) Basic Rate Add 10% For area weightage (Mangalore City) Road Marking with hot applied Thermoplastic Compound with Surface:Providing and laying of hot applied thermoplastic comp	ding and rit, fitted epth of 60 omplete a Rate Reflectri ound 2.5 s of 2.5m	404.9 4453.90 fixing of road stu- with lense reflect 0 mm and bedd is per specification 289 28.9 317.90 sing Glass Bea mm thick includ im is exclusive o	Nos Id 100x 100 m tors, installed led in a suita ons Nos. Ids on Concr- ing reflectoris f surface appl
	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provide a discass in aluminium, resistant to corrosive effect of salt and g concrete or asphaltic surface by drilling hole 30 mm upto a debituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 c (KPWD 18-19,SI No : 24.41) Basic Rate Add 10% For area weightage (Mangalore City) Road Marking with hot applied Thermoplastic Compound with Surface:Providing and laying of hot applied thermoplastic comp glass beads at 250 gms and 2 ltr of primer per sqm area,thicknes	ding and rit, fitted epth of 60 omplete a Rate Reflectri ound 2.5 s of 2.5m	404.9 4453.90 fixing of road stu- with lense reflect 0 mm and bedd is per specification 289 28.9 317.90 sing Glass Bea mm thick includ im is exclusive o	Nos Id 100x 100 m tors, installed led in a suita ons Nos. Ids on Concr- ing reflectoris f surface appl
55	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provide a studie and generative and the second studie and generative and the second studie and generative and the second state and the second studies and the second state and the second	ding and rit, fitted epth of 60 omplete a Rate Reflectri ound 2.5 s of 2.5m	404.9 4453.90 fixing of road stu- with lense reflect 0 mm and bedd is per specification 289 28.9 317.90 sing Glass Bea mm thick includ im is exclusive o	Nos Id 100x 100 m tors, installed led in a suita ons Nos. Ids on Concr- ing reflectoris f surface appl
	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provide a discass in aluminium, resistant to corrosive effect of salt and g concrete or asphaltic surface by drilling hole 30 mm upto a debituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 c (KPWD 18-19,SI No : 24.41) Basic Rate Add 10% For area weightage (Mangalore City) Road Marking with hot applied Thermoplastic Compound with Surface:Providing and laying of hot applied thermoplastic comp 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,uniforr as per specifications.MORTH specification No.803	ding and rit, fitted epth of 60 omplete a Rate Reflectri ound 2.5 s of 2.5m	404.9 4453.90 fixing of road stu- with lense reflect 0 mm and bedd is per specification 289 28.9 317.90 sing Glass Bea mm thick includ im is exclusive o	Nos Id 100x 100 m tors, installed led in a suita ons Nos. Ids on Concr- ing reflectoris f surface appl
	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provide a studie and guide as the and guide as the and guide as the and guide as the and the analysis of the astronomy and the start of the astronomy and the astronomy astro	ding and rit, fitted epth of 60 omplete a Rate Reflectri ound 2.5 s of 2.5m	404.9 4453.90 fixing of road stu with lense reflec 0 mm and bedd is per specification 289 28.9 317.90 sing Glass Bea mm thick includ im is exclusive o e from streak and	Nos Id 100x 100 m stors, installed led in a suita ons Nos. Ids on Concru- ing reflectoris f surface appl d holes comple
	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provide a static and guide ast in aluminium, resistant to corrosive effect of salt and guide ast in aluminium, resistant to corrosive effect of salt and guide ast in aluminous grout or epoxy mortar, all as per BS: 873 part 4:1973 c (KPWD 18-19,SI No : 24.41) Basic Rate Add 10% For area weightage (Mangalore City) Road Marking with hot applied Thermoplastic Compound with Surface:Providing and laying of hot applied thermoplastic compilass beads at 250 gms and 2 ltr of primer per sqm area,thicknesglass beads as per IRC:35.The finished surface to be level,uniforr as per specifications.MORTH specification No.803 (KPWD 18-19,SI No : 24.15) Basic Rate	ding and rit, fitted epth of 60 omplete a Rate Reflectri ound 2.5 s of 2.5m	404.9 4453.90 fixing of road stu with lense reflect 0 mm and bedd is per specification 289 28.9 317.90 sing Glass Bea mm thick includ im is exclusive o e from streak and 429	Nos Id 100x 100 m stors, installed led in a suita ons Nos. Ids on Concru- ing reflectoris f surface appl d holes comple
	Add 10% For area weightage (Mangalore City) KSRRB M800 Road markers / Road stud KSRRB M800-35. Provide a studie and guide as the and guide as the and guide as the and guide as the and the analysis of the astronomy and the start of the astronomy and the astronomy astro	ding and rit, fitted epth of 60 omplete a Rate Reflectri ound 2.5 s of 2.5m	404.9 4453.90 fixing of road stu with lense reflec 0 mm and bedd is per specification 289 28.9 317.90 sing Glass Bea mm thick includ im is exclusive o e from streak and	Nos Id 100x 100 m tors, installed led in a suita ons Nos. Ids on Concru- ing reflectoris f surface appl d holes comple

57	Providing and Fixing of Bus shelter(on prepared foundation) mad finish, Galvanised Aluminium powder coated roofing and electron shall be made of SS 304 tubular sections for seat and back rest. minimum backrest support of 450mm.Bus shelter shall have the S Electronic display.The electronic display board to be of LED Sc Diffused. LED's having Amber colour.Dual bin system should be dry waste.Each bin shall be with minimum capacity of 70Ltrs.Intera with information area of 1400 x 1400 and touch screen LED displa with integrated 8mm toughened glass.Advertisement Area 2 nos of 2000mm shall be integrated within the design of the Bus Shelte framing sides and back complete.Provision for installing outdoor V made in min M25 concrete. The cast iron nuts, bolts shall be rust etc.The materials used shall be Nonflammable (NON SOR Item)	ic circuit each unit Side Disp crolling ty adopted of active Info ay panel of f size 450 r. This s WiFi Rou	to control its ligh size of 4500mm play board to hav pe with Oval, 4 one for recycle v prmation Panel-di of area not less to 00mm x 1650mm hall be backlit ty ter.The Foundat	ting.The seating x 600mm with a ve 1100X400mm .3 x 5.1mm dia. vaste & other for splay equipment han 600-900mm n and 2100mm x vpe with SS box ion slab shall be		
	Rate Approved as per EOI by MD MSCL Mangalore,Refer	Rate	1500000	Nos.		
58	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.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.					
		1	Γ	Γ		
	Baisc rate		575000			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.1	Rate	575000	Nos.		
59	KSRB 6-2.3 : Providing and constructing burnt brick masonry with approved quality of non-modu standard size of class designation 5.0Newton per sqmm (table moulded) with cement mo					
	Basic rate		7797			
	Add 10% For area wightage	Poto	779.7 8576 70	Cum		
		Rate	8576.70	Cum		
60	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specification.	ng, : Pro	viding and remo WD 18-19,SI No	ving scaffolding, 5.15.16)		
	Basic rate		262			
	Add 10% For area wightage	Dete	26.2			
	Page 64	Rate	288.2	sqm		

	Providing and fixing 450mm wide X 600mmX 20mm thk.RIVERWA surface of seating as directed by architect (Non SOR Item)	ASHED B	LACK GRANITE	CLADDING on
	Basic Rate		3527	
	Rate Approved as per EOI by MD MSCL Mangalore, Refer	Rate	3527.00	
				•
62	Supply and Fixing of Traffic signal Straight pole of 6 mtr, inner d base plate size of (LXWXT) 200mm X200mmX6mm painted with enamel paint of yellow colour assembly G.I., class B, as per technic	n redoxid	e and double co	at with synthetic
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.5	Rate	18691	Nos.
63	Supply and fixing of Traffic signal Cantilever pole Class B having height of 6m including extension arm assembly having outer diame and base plate of size 300mm X 300mm with thickness of 6 mm per technical specification & drawings. (NON SOR Item)	eter of 75r	mm with arm spa	an of 4 mtr length
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.6	Rate	52850	Nos.
64	Supply and fixing of 300 mm dia – single source – LED retrofit - Re (NON SOR Item)	d (blow) a	as per Specificat	ion
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.7	Rate	11082	Nos.
65	Supply and fixing of 300 mm dia – single source – LED retrofit - Am (NON SOR Item)	hber (blov	v) as per Specifio	cation
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.7	Rate	11082	Nos.
66	Supply and fixing of 300 mm dia – single source – LED retrofit - Gre Specification (NON SOR Item)	een (arrov	w/U- Turn) EN-1	2368 as per
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.8	Rate	13973	Nos.
67	Supply and fixing of 300 mm dia – single source – LED retrofit - Re Specification (NON SOR Item)	a (pea. si	(anding) EN-123	oð as per
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.9	Rate	11082	Nos.
68	Supply and fixing of 300 mm dia – single source – LED retrofit - Gre Specification (NON SOR Item)	een (ped.	waiking) EN-123	ooo as per
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.10	Rate	13973	Nos.
69	Supply and fixing of 300 mm dia - No Right Turn/No Left turn/No St stabilized ink on face plate EN-12368 as per Specification (NON SOR Item)	raight/No	u • 'U' Turn aspect	L s by using UV
	Rate Approved as per EOI by MD MSCL Mangalore,Refer			
	Sr.No.11	Rate	6196	Nos.

70	(NON SOR Item)							
	Basic Rate		4500					
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.13	Rate	4500.00	Nos.				
71	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)							
	Basic Rate		100000.00					
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.26	Rate	100000.00					
72	Providing and Fixing SS 304 Outdoor Dustbin(Pivoted Type and M all complete to the satisfaction of the Engineer in charge. (NON SOR Item)	ounted on	SS Poles) of 55	ilters capac				
	Basic Rate		7500					
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.14	Rate	7500.00	Nos.				
73		eyond initia	al Lead of 5 km	Nos.				
73	Sr.No.14 Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth	eyond initia		Nos.				
73	Sr.No.14 Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Earth Earth Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-	eyond initia	al Lead of 5 km I.28x10km					
73	Sr.No.14 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	al Lead of 5 km 1.28x10km 25.60					
73	Sr.No.14 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	al Lead of 5 km 1.28x10km 25.60 57.00					
73	Sr.No.14 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	eyond initia	al Lead of 5 km 1.28x10km 25.60 57.00 82.60					
73	Sr.No.14 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	eyond initia	al Lead of 5 km 1.28x10km 25.60 57.00 82.60 8.26 90.86					
	Sr.No.14 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 Add 10% For area weightage (Mangalore City) Extra Lead for Disposing off unserviceable materials upto 10 Km b	eyond initia 2.0x1 Rate eyond initia	al Lead of 5 km 1.28x10km 25.60 57.00 82.60 8.26 90.86					
	Sr.No.14 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 Add 10% For area weightage (Mangalore City) Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris	eyond initia 2.0x1 Rate eyond initia	al Lead of 5 km 1.28x10km 25.60 57.00 82.60 8.26 90.86 al Lead of 5km	Cum				
	Sr.No.14 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 Add 10% For area weightage (Mangalore City) 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 initia 2.0x1 Rate eyond initia	al Lead of 5 km 1.28x10km 25.60 57.00 82.60 8.26 90.86 al Lead of 5km .30x10Km 26.00	Cum				
	Sr.No.14 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 Add 10% For area weightage (Mangalore City) Extra Lead for Disposing off unserviceable materials upto 10 Km b Item No 17.4 KSRRB M100-4.1-Debris Debris Baisc rate Add Loading and unloading charges(Item No 17.1 KSRRB M100-1)	eyond initia 2.0x1 Rate eyond initia	al Lead of 5 km 1.28x10km 25.60 57.00 82.60 8.26 90.86 al Lead of 5km .30x10Km 26.00 57.00	Cum				
	Sr.No.14 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 Add 10% For area weightage (Mangalore City) 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 initia 2.0x1 Rate eyond initia	al Lead of 5 km 1.28x10km 25.60 57.00 82.60 8.26 90.86 al Lead of 5km .30x10Km 26.00	Cum				

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 2.1 BOQ of Electrical lighting Works for DPR-4 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.	83	1,681	139,494	
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.	82	4,057	332,674	
1.2a	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 8 meter and upto 11 meter Existing poles (RA attached)	Nos.	9	4,807	43,264	
1.2b	Lighting Pole, 9 m Fabrication, supply and erection of 9 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. 5.14.7)	Nos.	19	17,118	325,242	
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	Nos.	64	12,420	794,880	

Sr.No.	Specification	Unit	Quantity	Rate	Amount	Remarks
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.	81	7,398	599,238	
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.	69	3,540	244,260	
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.	166	2,400	398,400	
1.7	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.	9	700	6,300	
	Painting of Existing street light pole after scrapping the old paint and painted with suitable colour enamel including coping/footing of the poleabove 5.5 mtr to 7.5 mtr (Ref Electrical SOR SI No.16.28.2)	Nos	80	620	49,600	
2	Out door box and switch gear Supply, installation, testing and commissioning of outdoor junction box for mounting MCB/Contactors with all required accessories and componenets	No.	32	11,783	377,053	
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	32	1,547	49,504	
3	LT Cable					
3.1	Supplying of 1.1 kV LT cable having aluminium conductor PVC insulated, extruded inner sheathed, galvanised, steel strips (except 2C x 10 sq. mm wire armoured) as per IS-3975:1990 and extruded PVC outer sheathed armoured cable as per IS - 1554 Part 1:1988 & conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conductor, (Ref Electrical SOR SI No.7.5,7.5.4)	m	11470	117	1,341,990	

Sr.No.	Specification	Unit	Quantity	Rate	Amount	Remarks
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	2928	81.60	238,925	
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	1880	11.31	21,263	
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	1410	3.12	4,399	
4	Earthing system					
4.1	Chemical Earthing for grounding,conduits,IC cut outs and otherequipmentson the mter boardby using copper /SS rod with earth enhancing backfill compound which is non corrosive ,thermally,conductive,potential,to permissible,limits,superior,fault,conductive capacity,non toxic,weather resistance and capable of achieving ohmic value less than one ohm (Ref Electrical SOR Pg.No.64,SI No.7.23.6)	Kit	64	5,500.00	352,000	
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	10119	19.50	197,321	
5	Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required RA attached	Nos.	1	1,683.34	1,683	
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.	1	5,476.00	5,476	
			тота	AL.	55,22,966	

Executive Engineer MSCL Mangaluru General Manager Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 2.2 M.S.of Electrical Lighting Works

Sr.No.	Specification	Unit	No.	L	в	н	Quantity
1	Lighting Poles						
•	Dismantling of pole/ street light standard/ strut embedded in						
1.1	cement concrete foundation etc. as required	Nos.					0.00
	Hampankatta Signal (Loop Road) (Road no 7b)	Nos.	14				14.00
	Hampankatta Signal (Loop Road) (Road no 7e)	Nos.	0				0.00
	Balmatta road	Nos.	10				10.00
	Road no 12 (Bunts road to jyoti circle)	Nos.	17				17.00
	KRR Road (Road no 13a)	Nos.	16				16.00
	KRR Road (Road no 13b)	Nos.	24				24.00
	Total						83.00
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.					
	Hampankatta Signal (Loop Road) (Road no 7b)	Nos.	14				14.00
	Hampankatta Signal (Loop Road) (Road no 7e)	Nos.	0				0.00
	Balmatta road	Nos.	9				9.00
	Road no 12 (Bunts road to jyoti circle)	Nos.	17				17.00
	KRR Road (Road no 13a)	Nos.	16				16.00
	KRR Road (Road no 13b)	Nos.	24				24.00
	Total						82.00
1.2a	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 8 meter and upto 11 meter Existing poles (RA attached)						
	Balmatta road	Nos.	9				9.00
1.2b	Lighting Pole, 9 m Fabrication, supply and erection of 9 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. 5.14.7)						
	Balmatta Road (Double Arm)- 9 mtrs	Nos.	19		T	otal	19.00
	Daimalla Ruau (Duuble Altii)- 9 Illis	INUS.	19			Ι	19.00

Sr.No.	Specification	Unit	No.	L	В	н	Quantity
1.3	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)						
	Hampankatta Signal (Loop Road) (Road no 7b)	Nos.					0.00
	Hampankatta Signal (Loop Road) (Road no 76)	Nos.	12				12.00
	Road no 12 (Bunts road to jyoti circle)	Nos.	12				0.00
	KRR Road (Road no 13a)	Nos.	43				43.00
	KRR Road (Road no 13b)	Nos.	9				9.00
	Total						
					То	tal	64
1.4	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)	Nee	0				0.00
	Hampankatta Signal (Loop Road) (Road no 7b) Hampankatta Signal (Loop Road) (Road no 7e)	Nos. Nos.	0				0.00 0.00
	Road no 12 (Bunts road to jyoti circle)	Nos.	2				2.00
	Balmatta road	Nos.	22				22.00
	KRR Road (Road no 13a)	Nos.	31				31.00
	KRR Road (Road no 13b)	Nos.	26				26.00
	Total						81.00
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)		<u> </u>				
	Hampankatta Signal (Loop Road) (Road no 7b)	Nos.	3				3.00
	Hampankatta Signal (Loop Road) (Road no 7e)	Nos.	0				0.00
	Road no 12 (Bunts road to jyoti circle)	Nos.	0				0.00
	Balmatta road	Nos.	18				18.00
	KRR Road (Road no 13a)	Nos.	15				15.00
							10.00

Sr.No.	Specification	Unit	No.	L	В	н	Quantity
	Total						69.00
	Supplying and fixing of hot dip Galvinized M.S.bracket						
	Suitable for outdoor luminaries and mounted on Octagonal						
	pole using necessary bolts, nuts, etc. complete						
1.6	Single Cross arm - 1500 mm						
	(Ref Electrical SOR SI No.5.18.2)						
	Hampankatta Signal (Loop Road) (Road no 7b)	Nos.	6				6.00
	Hampankatta Signal (Loop Road) (Road no 7e)	Nos.	12				12.00
	Road no 12 (Bunts road to jyoti circle)	Nos.	15				15.00
	Balmatta road	Nos.	32				32.00
	KRR Road (Road no 13a)	Nos.	75				75.00
	KRR Road (Road no 13b)	Nos.	26				26.00
	Total						
					То	tal	166
	Painting of Existing street light pole after scrapping the old						
	paint and painted with suitable colour enamel including						
1.7	coping/footing of the pole8mtr and above street light pole						
	(Ref Electrical SOR SI No.16.28.3)						
	Delevette weed	Nu					0.00
	Balmatta road	Nos.	9		То	tal	9.00
					10	lai	9
	Painting of Existing street light pole after scrapping the old						
	paint and painted with suitable colour enamel including						
1.7a	coping/footing of the poleabove 5.5 mtr to 7.5 mtr						
1.74	(Ref Electrical SOR SI No.16.28.2)						
	()						
	Hampankatta Signal (Loop Road) (Road no 7b)	Nos.	14				14.00
	Hampankatta Signal (Loop Road) (Road no 7e)	Nos.	0				0.00
	Road no 12 (Bunts road to jyoti circle)	Nos.	17				17.00
	Balmatta road	Nos.	9				9.00
	KRR Road (Road no 13a)	Nos.	16				16.00
	KRR Road (Road no 13b)	Nos.	24				24.00
	Total						80.00
2	Lighting Panel						
	Supply, installation, testing and commissioning of outdoor						
2.1	junction box for mounting MCB/Contactors with all required						
	accessories and componenets						4.00
	Hampankatta Signal (Loop Road) (Road no 7b)	Nos.	1				1.00
	Balmatta road	Nos.	1				1.00
	Hampankatta Signal (Loop Road) (Road no 7e)	Nos.	<u>1</u> 2				1.00
	Road no 12 (Bunts road to jyoti circle)	Nos.	17				2.00
	KRR Road (Road no 13a) KRR Road (Road no 13b)	Nos. Nos.	17				17.00
		INOS.	10				10.00
					То	tal	32
	Supply and fixing of miniature circuit breaker on exisiting						52
	board using necessasary fixing material and 'C' type curve,						
	indicator ON/OFF, energy cross-3 with short circuit breaking						
2.2	capacity of 10 KA complete wiring as required confirming to						
	IEC 60898						
	5- 32A TPN						
					1		
	Electrical SOR- 6.16.5)						

Sr.No.	Specification	Unit	No.	L	В	н	Quantity
	Hampankatta Signal (Loop Road) (Road no 7e)	Nos.	1				1.00
	Road no 12 (Bunts road to jyoti circle)	Nos.	2				2.00
	Balmatta road	Nos.	1				1.00
	KRR Road (Road no 13a)	Nos.	17				17.00
	KRR Road (Road no 13b)	Nos.	10				10.00
					Тс	otal	32
3	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						
3.1	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)						
	Hampankatta Signal (Loop Road) (Road no 7b) (Considering						
	25% more length for looping)	m	2	280			560
	Hampankatta Signal (Loop Road) (Road no 7e) (Considering						
	25% more length for looping)	m	2	404			808
	Balmatta Road (Double Arm) (Consider 25% more length						
	for looping)	m	2	663			1325
	Balmata Road (Single Arm - KMC Markra Trunk Road)						
	(Consider 25% more length for looping)	m	2	875			1750
	Road no 12 (Bunts road to jyoti circle) (Considering 25%						
		m	2	599			1198
	more length for looping) KRR Road (Road no 13a) (Considering 25% more length for						
		m	2	1455			2910
	looping) KRR Road (Road no 13b) (Considering 25% more length for						
	looping)	m	2	1460			2920
	looping)				Тс	otal	11470
	Supply and drawing flexible multicore cable with electrolyte						11470
	grade flexible copper with low conductor conforming to Table						
	3 Class 5 of IS:8130-1984 and vargin PVC insulation and						
3.2	sheathed suitable for working voltage up to 1100 V as per IS-						
3.2	694:1990 and conforming to GTP of Group A.						
	$3C \times 2.5$ sq. mm (Ref. Electrical SOR 2.8.8)						
	$30 \times 2.5 \text{ sq. mm}$ (Ref. Electrical SOR 2.0.0)						
	Hampankatta Signal (Loop Road) (Road no 7b)						
	7 mtr high pole	m	9	14			126.00
	Hampankatta Signal (Loop Road) (Road no 7e)		0				120.00
	7m high pole	m	12	14			168.00
	Road no 12 (Bunts road to jyoti circle)		14				100.00
	7 mtr high pole	m	15	14			210.00
	Balmatta road		15	·-•			210.00
	9 mtr high pole	m	28	18			504.00
	4 mtr high pole	m	20	8			176.00
	KRR Road (Road no 13a)		<u> </u>				170.00
	7m high pole	m	59	14			826.00
	4m high pole	m	31	8			248.00
<u> </u>	KRR Road (Road no 13b)		01				270.00
	7 mtr road	m	33	14			462.00
	4m high pole	m	26	8			208.00
			20		T	otal	2 08.00 2928
					10	, ai	2320

Sr.No.	Specification	Unit	No.	L	В	н	Quantity
	Supplying tinned copper lugs and crimping and wiring to						
3.3	terminal point for wire of following sizes		No.of	No.of			
	16 Sq.mm PVC Aluminium Conductor		Poles	Lugs			
	(Ref Electrical SOR SI No.7.21,7.21.6)	-		_			
	Hampankatta Signal (Loop Road) (Road no 7b) 7 mtr high pole	Nos.	9	8			72.00
	Hampankatta Signal (Loop Road) (Road no 7e)	INOS.	9	0			72.00
	7m high pole	Nos.	12	8			96.00
-	Road no 12 (Bunts road to jyoti circle)	1103.	12	- 0			30.00
	7 mtr high pole	Nos.	15	8			120.00
	Balmatta road						120.00
	9 mtr high pole	Nos.	28	8			224.00
	4 mtr high pole	Nos.	22	8			176.00
	KRR Road (Road no 13a)						
	7m high pole	Nos.	59	8			472.00
	4m high pole	Nos.	31	8			248.00
	KRR Road (Road no 13b)						
	7m high pole	Nos.	33	8			264.00
	4m high pole	Nos.	26	8			208.00
					То	otal	1880
	Supplying tinned copper lugs and crimping and wiring to						
3.4	terminal point for wire of following sizes						
0.4	2.5 sq. mm copper conductor						
	(Ref Electrical SOR SI No.7.21.2)						
	Hampankatta Signal (Loop Road) (Road no 7b)						
	7 mtr high pole	Nos.	9	6			54.00
	Hampankatta Signal (Loop Road) (Road no 7e)						
	7m high pole	Nos.	12	6			72.00
	Road no 12 (Bunts road to jyoti circle)		45				
	7 mtr high pole	Nos.	15	6			90.00
	Balmatta road	NL	00				400.00
	9 mtr high pole	Nos.	28	6			168.00
	4 mtr high pole	Nos.	22	0			132.00
	KRR Road (Road no 13a)	Nos.	59	6			354.00
	7 mtr high pole 4 mtr high pole	Nos.	31	6			186.00
	KRR Road (Road no 13b)	1105.	51	0			100.00
	7 mtr high pole	Nos.	33	6			198.00
	4 mtr high pole	Nos.	26	6			156.00
		1103.	20		То	otal	1410
	Chemical Earthing for grounding, conduits, IC cut outs and						1410
	otherequipmentson the mter boardby using copper /SS rod						
	with earth enhancing backfill compound which is non						
	corrosive ,thermally,conductive,potential,to						
4.1	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)						
	Hampankatta Signal (Loop Road) (Road no 7b)	Nos.	1	2			2.00
	Hampankatta Signal (Loop Road) (Road no 7e)	Nos.	1	2			2.00
	Road no 12 (Bunts road to jyoti circle)	Nos.	2	2			4.00
	Balmatta road	Nos.	1	2			2.00
	KRR Road (Road no 13a)	Nos.	17	2			34.00
	KRR Road (Road no 13b)	Nos.	10	2			20.00
					То	otal	64

Sr.No.	Specification	Unit	No.	L	В	н	Quantity
4.2	Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3)						
	Hampankatta Signal (Loop Road) (Road no 7b)	m	2	246			492.80
	Hampankatta Signal (Loop Road) (Road no 7e)	m	2	355			710.60
	Balmatta Road (Double Arm) (Consider 10% more length for looping)	m	2	583			1166.00
	Balmata Road (Single Arm - KMC Markra Trunk Road) (Consider 10% more length for looping)	m	2	770			1540.00
	Road no 12 (Bunts road to jyoti circle)	m	2	527			1053.80
	KRR Road (Road no 13a)	m	2	1287			2574.00
	KRR Road (Road no 13b)	m	2	1291			2582.00
					То	tal	10119
5	Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required RA attached	No	1				1.00
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	1				1.00

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City 2.3 Rate Analysis of Electrical Lighting works

1	Lighting Poles									
	Dismantling of pole/ street light standard/ stre	ut embe	edded in ceme	nt concrete						
1.1	foundation etc. as required									
		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 (As per RA)									
		Rate	4,057	Nos.						
1.2a	Above 8 meter and upto 11 meter Existing poles									
		Rate	4,807	Nos.						
1.2b	(RA attached)Rate4,807Nos.Lighting Pole, 9 mFabrication, supply and erection of 9 meters long hot dip GalvanisedOctagonal pole with BSE 10025 grade S 355 JO steel plate for shaft, IS 2062for base plate with oor opening arrangement, icluding suitable boards,bakelite sheet and MCBs as per IS specifications suitable for wind speed of47 m/sec for 5 m pole in single section and single joint welded as per IS9595/IS 10178 AWG baying dimensions bottom 155 mm dia. top 70 mm with									
	Basic rate		17118							
		Rate	17,118	Nos.						

	Lighting Pole, 7 m Fabrication, suppl and erection of 7 meters lo Octagonal pole with BSE 10025 grade S 355						
	for base plate with oor opening arrangement,	, icludin	g suitable boa	rds,			
	bakelite sheet and MCBs as per IS specificat 47 m/sec for 5 m pole in single section and s						
1.3	9595/IS 10178 AWG having dimensions bott 3 mm thick, suitable base plate and 4 nos. of		mm dia, top 7 g J bolts along				
	template and the pole shall be hot dip galvan	ized in	single dipping	with not			
	less than 65 micron as per ASTM - A123 and as per drawing appended	1 153 et	c., (excluding	foundation)			
	(Ref Electrical SOR SI No. 5.14.5)						
			10.100				
	Basic rate	Rate	12420 12420	Nos.			
	Lighting Pole, 4 m			1			
	Fabrication, supply and erection of 4 meters						
	Octagonal pole with BSE 10025 grade S 355 for base plate with door opening arrangement		•				
	bakelite sheet and MCBs as per IS specificat		v				
	47 m/sec for 5 4 pole in single section and si			•			
1.4	9595/IS 10178 AWG having dimensions bott						
	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)						
			7398				
	Basic rate		1390				
		Rate	7,398	Nos.			
1.5	Basic rate Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete	S.brack	7,398 et Suitable for	Nos. outdoor			
1.5	Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u	S.brack	7,398 et Suitable for	Nos. outdoor			
1.5	Supplying and fixing of hot dip Galvinized M. luminaries and mounted on Octagonal pole u complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5)	S.brack	7,398 et Suitable for cessary bolts,	Nos. outdoor nuts, etc.			
1.5	Supplying and fixing of hot dip Galvinized M. luminaries and mounted on Octagonal pole u complete Double Cross arm - 1500 mm	S.brack	7,398 et Suitable for	Nos. outdoor nuts, etc.			
1.5	Supplying and fixing of hot dip Galvinized M. luminaries and mounted on Octagonal pole u complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Supplying and fixing of hot dip Galvinized M.	S.brack ising ne Rate S.brack	7,398 et Suitable for cessary bolts, 3540 3,540 et Suitable for	Nos. outdoor nuts, etc. Nos. outdoor			
	Supplying and fixing of hot dip Galvinized M. luminaries and mounted on Octagonal pole u complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Supplying and fixing of hot dip Galvinized M. luminaries and mounted on Octagonal pole u	S.brack ising ne Rate S.brack	7,398 et Suitable for cessary bolts, 3540 3,540 et Suitable for	Nos. outdoor nuts, etc. Nos. outdoor			
1.5	Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete	S.brack ising ne Rate S.brack	7,398 et Suitable for cessary bolts, 3540 3,540 et Suitable for	Nos. outdoor nuts, etc. Nos. outdoor			
	Supplying and fixing of hot dip Galvinized M. luminaries and mounted on Octagonal pole u complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Supplying and fixing of hot dip Galvinized M. luminaries and mounted on Octagonal pole u	S.brack ising ne Rate S.brack	7,398 et Suitable for cessary bolts, 3540 3,540 et Suitable for	Nos. outdoor nuts, etc. Nos. outdoor			
	Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Single Cross arm - 1500 mm	S.brack Ising ne Rate S.brack Ising ne	7,398 et Suitable for cessary bolts, <u>3540</u> 3,540 et Suitable for cessary bolts, 2400	Nos. outdoor nuts, etc. Nos. outdoor nuts, etc.			
	Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2)	S.brack ising ne Rate S.brack	7,398 et Suitable for cessary bolts, 3540 3,540 et Suitable for cessary bolts,	Nos. outdoor nuts, etc. Nos. outdoor nuts, etc.			
	Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2) Basic rate	S.brack Ising ne Rate S.brack Ising ne Rate	7,398 et Suitable for cessary bolts, 3540 3,540 et Suitable for cessary bolts, 2400 2,400	Nos. outdoor nuts, etc. Nos. outdoor nuts, etc. Nos.			
	Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2)	S.brack Ising ne Rate S.brack Ising ne Rate	7,398 et Suitable for cessary bolts, 3540 3,540 et Suitable for cessary bolts, 2400 2,400 he old paint ar	Nos. outdoor nuts, etc. Nos. outdoor nuts, etc. Nos. nuts, etc.			
	Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2) Basic rate Painting of Existing street light pole after scra with suitable colour enamel including coping/ above street light pole	S.brack Ising ne Rate S.brack Ising ne Rate	7,398 et Suitable for cessary bolts, 3540 3,540 et Suitable for cessary bolts, 2400 2,400 he old paint ar	Nos. outdoor nuts, etc. Nos. outdoor nuts, etc. Nos. nuts, etc.			
1.6	Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2) Basic rate Painting of Existing street light pole after scra with suitable colour enamel including coping/	S.brack Ising ne Rate S.brack Ising ne Rate	7,398 et Suitable for cessary bolts, 3540 3,540 et Suitable for cessary bolts, 2400 2,400 he old paint ar	Nos. outdoor nuts, etc. Nos. outdoor nuts, etc. Nos. nuts, etc.			
1.6	Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2) Basic rate Painting of Existing street light pole after scra with suitable colour enamel including coping/ above street light pole	S.brack Ising ne Rate S.brack Ising ne Rate	7,398 et Suitable for cessary bolts, 3540 3,540 et Suitable for cessary bolts, 2400 2,400 he old paint ar	Nos. outdoor nuts, etc. Nos. outdoor nuts, etc. Nos. nuts, etc.			
1.6	Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Double Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.5) Basic rate Supplying and fixing of hot dip Galvinized M. Iuminaries and mounted on Octagonal pole u complete Single Cross arm - 1500 mm (Ref Electrical SOR SI No.5.18.2) Basic rate Painting of Existing street light pole after scra with suitable colour enamel including coping/ above street light pole (Ref Electrical SOR SI No.16.28.3)	S.brack Ising ne Rate S.brack Ising ne Rate	7,398 et Suitable for cessary bolts, 3540 3,540 et Suitable for cessary bolts, 2400 2,400 he old paint ar of the pole8r	Nos. outdoor nuts, etc. Nos. outdoor nuts, etc. Nos. nuts, etc.			

	Painting of Existing street light pole after scra with suitable colour enamel including coping/		of the note of	NOVO E E m				
1.7a	to 7.5 mtr	nooung o	or the poleat	00ve 5.5 m				
	(Ref Electrical SOR SI No.16.28.2)							
	Basic rate		620					
		Rate		Nos.				
		Rale	020	NUS.				
2	Out door box and switch gear							
	Supply, installation, testing and commissioni	ng of ou	tdoor junction	box for				
2.1	mounting MCB/Contactors with all required a	accessor	ries and comp	onenets				
	Price list (Considering 30% discount ,	Dete	44 700					
	18% GST & 10% profit)	Rate	11,783	Nos.				
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)							
	Basic rate		1547					
		Rate	1,547	Nos.				
3	LT Cable							
3.1	Supplying of 1.1 kV LT cable having aluminiu extruded inner sheathed, galvanised, steel si extruded PVC outer sheathed armoured cable capforming to CTP of CPOLID P	trips as	per IS-3975:1	1990 and				
3.1	extruded inner sheathed, galvanised, steel s	trips as le as pei	per IS-3975:1	1990 and				
3.1	extruded inner sheathed, galvanised, steel si extruded PVC outer sheathed armoured cab conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conduct	trips as le as pei	per IS-3975:1	1990 and				
3.1	extruded inner sheathed, galvanised, steel st extruded PVC outer sheathed armoured cab conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conduct (Ref Electrical SOR SI No.7.5,7.5.4)	trips as le as pei	per IS-3975:´ r IS - 1554 Pa	1990 and				
3.1	extruded inner sheathed, galvanised, steel st extruded PVC outer sheathed armoured cab conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conduct (Ref Electrical SOR SI No.7.5,7.5.4)	trips as le as per or, Rate with electoole 3 Cla for work	per IS-3975: ^ r IS - 1554 Pa <u>117</u> 117 trolyte grade iss 5 of IS:813 king voltage u	1990 and rt 1:1988 8 Rm flexible 30-1984 an p to 1100 \				
	extruded inner sheathed, galvanised, steel si extruded PVC outer sheathed armoured cab conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conduct (Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Supply and drawing flexible multicore cable v copper with low conductor conforming to Tak vargin PVC insulation and sheathed suitable as per IS-694:1990 and conforming to GTP 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	trips as le as per or, Rate with electoole 3 Cla for work	per IS-3975: ^ r IS - 1554 Pa 117 117 etrolyte grade iss 5 of IS:813 king voltage u p A.	1990 and rt 1:1988 8 Rm flexible 30-1984 an p to 1100 \				
	extruded inner sheathed, galvanised, steel si extruded PVC outer sheathed armoured cab conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conduct (Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Supply and drawing flexible multicore cable v copper with low conductor conforming to Tak vargin PVC insulation and sheathed suitable as per IS-694:1990 and conforming to GTP 3C x 2.5 sq. mm (Ref. Electrical SOR 2.8.8)	trips as le as per or, Rate with electored for work of Group Rate	per IS-3975: ^ r IS - 1554 Pa <u>117</u> 117 ctrolyte grade iss 5 of IS:813 king voltage u p A. <u>81.60</u>	1990 and rt 1:1988 8 Rm flexible 30-1984 an p to 1100 \ Rm				
3.2	extruded inner sheathed, galvanised, steel si extruded PVC outer sheathed armoured cab conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conduct (Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Supply and drawing flexible multicore cable v copper with low conductor conforming to Tab vargin PVC insulation and sheathed suitable as per IS-694:1990 and conforming to GTP 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	trips as le as per or, Rate with electored for work of Group Rate	per IS-3975: ^ r IS - 1554 Pa <u>117</u> 117 ctrolyte grade iss 5 of IS:813 king voltage u p A. <u>81.60</u>	1990 and rt 1:1988 8 Rm flexible 30-1984 an p to 1100 \ Rm				
3.2	extruded inner sheathed, galvanised, steel si extruded PVC outer sheathed armoured cab conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conduct (Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Supply and drawing flexible multicore cable v copper with low conductor conforming to Tab vargin PVC insulation and sheathed suitable as per IS-694:1990 and conforming to GTP 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)	trips as le as per or, Rate with electored for work of Group Rate	per IS-3975: ^ r IS - 1554 Pa <u>117</u> 117 ctrolyte grade iss 5 of IS:813 king voltage u p A. <u>81.60</u> g to terminal p	1990 and rt 1:1988 8 Rm flexible 30-1984 an p to 1100 \ Rm				
3.2	extruded inner sheathed, galvanised, steel si extruded PVC outer sheathed armoured cab conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conduct (Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Supply and drawing flexible multicore cable v copper with low conductor conforming to Tab vargin PVC insulation and sheathed suitable as per IS-694:1990 and conforming to GTP 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)	trips as le as per or, Rate with electole 3 Cla for work of Group Rate	per IS-3975: ^ r IS - 1554 Pa <u>117</u> 117 ctrolyte grade iss 5 of IS:813 king voltage u p A. <u>81.60</u> g to terminal p <u>11.31</u>	1990 and rt 1:1988 8 Rm flexible 30-1984 an p to 1100 \ Rm p to 1100 \				
3.2	extruded inner sheathed, galvanised, steel si extruded PVC outer sheathed armoured cab conforming to GTP of GROUP B 4 Core x16 Sq.mm PVC Aluminium Conduct (Ref Electrical SOR SI No.7.5,7.5.4) Basic rate Supply and drawing flexible multicore cable v copper with low conductor conforming to Tab vargin PVC insulation and sheathed suitable as per IS-694:1990 and conforming to GTP 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)	trips as le as per or, Rate with elector of Group Rate nd wiring Rate	per IS-3975: ^ r IS - 1554 Pa 117 117 ctrolyte grade iss 5 of IS:813 king voltage u p A. 81.6 81.60 g to terminal p 11.31 11.31	1990 and rt 1:1988 & Rm flexible 30-1984 an p to 1100 \ Rm p to 1100 \ Nos.				

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 4.1 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 Basic rate 5500 Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3) Basic rate 19.5 Joismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required RA attached Rate 19.50 Frection 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) Rate 5,476 Nos.			Rate	3.12	Nos.
the meter 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) Basic rate 5500 Kit Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3) Basic rate 19.5 gasic rate 19.5 conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3) Basic rate 19.5 Attached Rate 19.50 Rate 19.50 Rmt 5 Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required Rate 1,683 Nos. 6 Rate 1,683 Nos. 6 accessories etc. as required. Above 6.5 meter and upto 8.0 meter Existing poles (As per RA)					
Rate 5500.00 Kit 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) Image: Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3) Basic rate 19.5 Basic rate 19.5 Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required RA attached Rate 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)	4.1	the mter boardby using copper /SS rod with e compound which is non corrosive ,thermally permissible,limits,superior,fault,conductive ca resistance and capable of achieving ohmic va less than one ohm	earth en ,conduc apacity,	hancing backf tive,potential,f	i ill :o
4.2 Supply and running GI conductor for grounding and (along with other wires in conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3) Basic rate 19.5 Basic rate 19.5 Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required RA attached Rate 1,683 Nos. 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) Kate 1,683 Nos.		Basic rate		5500	
 4.2 conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3) Basic rate 19.5 Basic rate 19.50 Rmt Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required RA attached Rate 1,683 Nos. 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) 			Rate	5500.00	Kit
 4.2 conduits system of wiring) using necessasary suitable size clamps, nails, guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3) Basic rate 19.5 Basic rate 19.50 Rmt Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required RA attached Rate 1,683 Nos. 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) 					
Bismantling of 7 mtr high mast pole/ strut embedded in cement concrete 5 Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete 5 foundation etc. as required RA attached Rate 1,683 6 Erection of 7 mtr high mast metallic pole of following length in cement 6 Erection of 7 mtr high mast metallic pole of following length in cement 6 accessories etc. as required. Above 6.5 meter and upto 8.0 meter Existing poles (As per RA) (As per RA)	4.2	guttas/spacers etc-8 SWG (Ref Electrical SOR SI No.7.22.3)	y suitab		, nails,
5 Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required RA attached 6 Rate 1,683 Nos. 8 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)			Data		Dreat
 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) 	5	foundation etc. as required		1	I
 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) 			Rate	1,683	Nos.
Rate 5,476 Nos.	6	concrete 1 :3:6 (1 cement : 3 coarse sand : 6 nominal size) foundation including excavation accessories etc. as required. Above 6.5 meter and upto 8.0 meter Existing poles	gradeo	stone aggreg	ate 40 mm
			Data	E 470	

Executive Engineer MSCL Mangaluru

GM Technical MSCL Mangaluru

Name of the Work :- Mangalore Smart City 2.4 Rate Analysis of Electrical Lighting works

	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	
	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
	Khasasi	day	3.33	466.20	1552.446	PWD SOR 2018-19, LXIV, SI. No 148
	TOTAL				1863.438	
	Contracto's profit @10%				186.3438	
-	Contractor's over head @ 10%				186.3438	
	TOTAL				2236.1256	
	Excavation including refilling as required	cum	0.87	328.90	286.143	PWD SOR 2018-19, pg- 6, SI. No 2.3
	Cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.29	6279.9	1821.171	PWD SOR 2018-19, pg- 13, SI. No 4.1
	TOTAL				4057.2966	
	say				4057	
1.3	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 8 meter and upto 11 meter Existing poles (CPWD RA- E & M 2016, item 11.3.3, pg 373))					
	LABOUR					
	Mason, Grade 2	day	0.33	456.2	150.55	SI. NO 13
	Lineman	day	0.33	486.2	160.45	LVIII, SI. INO 38
	Khasasi	day	3.66	466.2	1706.29	PWD SOR 2018-19, LXIV, SI. No 148
	TOTAL				2017.29	
	Contracto's profit @10%				201.73	
	Contractor's over head @ 10%				201.73	
	TOTAL	Page 80			2420.75	

	Description	Unit	qty	Rate	Amount	Remark
	Excavation including refilling as required	cum	1.06	328.90	348.634	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	0.38	6279.9	2386.362	PWD SOR 2018-19, pg- 13, SI. No 4.1
	TOTAL				4807.112	
	say				4807	
5	Dismantling of 7 mtr high mast pole/ strut embedded in cement concrete foundation etc. as required					
	Line man	day	1.00	486.2	486.20	PWD SOR 2018-19, LVIII, SI. No 38
	Khasasi	day	3.50	261.88	916.58	PWD SOR 2018-19, LXIV, SI. No 148
	Total				1402.78	
	Contracto's profit @10%				140.278	
	Contractor's over head @ 10%				140.278	
					1683.336	
6	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	456.2	228.10	SI. NO 13
	Lineman	day	1	486.2	486.20	PWD SOR 2018-19, LVIII, SI. No 38
	Khasasi	day	5	466.2	2331.00	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, SI. 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 4

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)		232.75	140.00	32,585	
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	114.64	224.40	25,726	
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	347.40	113.30	39,360	
1.1.4	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)		347.40	23.91	8,306	
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	579.00	17.92	10,376	

Sr.No.	Specifications	Unit	Quantity	Rate	Amount	Remarks
1.2	TURF					
1.2.1	ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	579.00	156.80	90,787	
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	579.00	560.00	324,240	
			Total		5,31,380	

SOR+ RA Items Cost GST @ 12 % of SOR and RA Items 75,462 9055

Executive Engineer MSCL Mangaluru

Name of the Work :- Manglore Smart City 3.2 Measurement Sheet of softscape for DPR 4

@Ch.1120.0 Cum 0.67 31.00 Area 0.60 13a-Pvs Circle to Arya Samaj Road-Island @ Ch.670 Cum 0.67 12.00 Area 0.60 13a-Pvs Circle to Arya Samaj Road-Island @ Ch.180 Cum 0.67 166.00 Area 0.60 13a-Pvs Circle to Arya Samaj Road-Island @ Ch.180 Cum 0.67 166.00 Area 0.60 Bunts Hostel Road Median Ch.20.0 to Ch.455.0 Cum 0.67 435.00 0.60 0.60 Consider 2/3rd Qty of Item No.1.1.7 Cum - - - - Mammare, from any available source, approved by the engineer in charge including screening and ration complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90) I.1.2 Stack in complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90) Cum 0.33 104 Area 0.6 13b-Hampankatta to PVS Circle-Island @Ch.670 Cum 0.33 31 Area 0.6 13a-Pvs Circle to Arya Samaj Road-Island @ Ch.680 Cum 0.33 12 Area 0.6 13a-Pvs Circle to Arya Samaj Road-Island @ Ch.680 C	Sr.No.	Item	Unit	No.	L	В	н	Qty.
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MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77)	1.1.3							
(KPWD SR 16-17,Page No.150,SI No.19.77)								
		(NI WD SN 10-17, Fage NO. 150, SI NO. 19.77)						
12h Hampankatta ta DV/S Circle Jaland @								
12h Hamponkatta ta DV/C Circle Jaland @								
Ch.870.0 Cum 1 104 Area 0.6		13b-Hampankatta to PVS Circle-Island @	Cum	1	104	Area	0.6	62.40

Sr.No.	Item	Unit	No.	L	В	н	Qty.
	13b-Hampankatta to PVS Circle-Island @Ch.1120.0	Cum	1	5	Area	0.6	3.00
	13a-Pvs Circle to Arya Samaj Road-Island @ Ch.670	Cum	1	31	Area	0.6	18.60
	13a-Pvs Circle to Arya Samaj Road-Island @ Ch.680	Cum	1	12	Area	0.6	7.20
	13a-Pvs Circle to Arya Samaj Road-Island @ Ch.1080	Cum	1	166	Area	0.6	99.60
	Bunts Hostel Road Median Ch.20.0 to Ch.455.0	Cum	1	435	0.6	0.6	156.60
						Total	347.40
1.1.4	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)						
	Consider Same Qty. of 1.1.7	Cum					347.40
1.1.5	Soil propagation of Lown						
1.1.3	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 13b-Hampankatta to PVS Circle-Island @	Sqm	1	104.00			104.00
	Ch.870.0 13b-Hampankatta to PVS Circle-Island @Ch.1120.0	Sqm	1	5.00			5.00
	13a-Pvs Circle to Arya Samaj Road-Island @ Ch.670	Sqm	1	31			31.00
	13a-Pvs Circle to Arya Samaj Road-Island @ Ch.680	Sqm	1	12			12.00
	13a-Pvs Circle to Arya Samaj Road-Island @ Ch.1080	Sqm	1	166.00			166.00
	Bunts Hostel Road Median Ch.20.0 to Ch.455.0	Sqm	1	435.00	0.6		261.00
						Total	579.00
1.1.6	ZOYSIA JAPONICA (MAT) (Non SOR Item)						
	13b-Hampankatta to PVS Circle-Island @	Sqm	1	104	Area		104.00
	13b-Hampankatta to PVS Circle-Island	Sqm	1	5	Area		5.00
	13a-Pvs Circle to Arya Samaj Road-Island @	Sqm	1	31	Area		31.00
	13a-Pvs Circle to Arya Samaj Road-Island @	Sqm Sqm	1	12	Area		12.00
	13a-Pvs Circle to Arya Samaj Road-Island @ Bunts Hostel Road Median Ch.20.0 to Ch.455.0	Sqm Sqm	1	166 435	Area 0.6		166.00 261.00
			1	-55	0.0	Total	579.00

Sr.No.	Item	Unit	No.	L	В	н	Qty.
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. (Consider Same Qty. of 1.1.6) (Non SOR Item)						
	13b-Hampankatta to PVS Circle-Island @ Ch.870.0	Sqm	1	104	Area		104.00
	13b-Hampankatta to PVS Circle-Island @Ch.1120.0	Sqm	1	5	Area		5.00
	13a-Pvs Circle to Arya Samaj Road-Island @ Ch.670	Sqm	1	31	Area		31.00
	13a-Pvs Circle to Arya Samaj Road-Island @ Ch.680	Sqm	1	12	Area		12.00
	13a-Pvs Circle to Arya Samaj Road-Island @ Ch.1080	Sqm	1	166	Area		166.00
	Bunts Hostel Road Median Ch.20.0 to Ch.455.0	Sqm	1	435	0.6		261.00
						Total	579.00

Executive Engineer MSCL Mangaluru

Name of the Work :- Manglore Smart City 3.3 Rate Analysis of SOFTSCAPE for DPR 4

RATE ANALYSIS - SOFTSCAPE

1.1.1	Supplying and stacking of good earth at carriage upto 5 k.m. lead complete (earth 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	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	equirect to be cificatio	thicknes paid for	ss (cost of separately)					
	Basic rate		103						
	Add 10% For area wightage		10.3						
		Pata							
	Rate 113.30 Mixing earth and sludge or manure in the required proportion specified .1.4 or directed by the Officer-in-charge (Non SOR item)								
1.1.4				n specified					
1.1.4	or directed by the Officer-in-charge	Rate	23.91						
1.1.4	or directed by the Officer-in-charge (Non SOR item) Rate Approved as per EOI by MD MSCL	Rate	23.91 g and b obs grass eading of	Cum reaking of s roots and f farm yard					
	or directed by the Officer-in-charge (Non SOR item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28 Soil preparation of Lawn KSRRB M300-3.Making lawns including p clod,removal of rubbish,dressing and supply planting at 15 cm apart,including supplying a manure at rate of 0.18cum per 100 sqm com MORTH Specification No.307 (KSRRB 19.80)	Rate	23.91 g and b obs grass eading of s per spe	Cum reaking of s roots and f farm yard					
	or directed by the Officer-in-charge (Non SOR item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28 Soil preparation of Lawn KSRRB M300-3.Making lawns including p clod,removal of rubbish,dressing and supply planting at 15 cm apart,including supplying a manure at rate of 0.18cum per 100 sqm com MORTH Specification No.307 (KSRRB 19.80) Basic rate	Rate	23.91 g and b obs grass eading of s per spe	Cum reaking of s roots and f farm yard					
	or directed by the Officer-in-charge (Non SOR item) Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28 Soil preparation of Lawn KSRRB M300-3.Making lawns including p clod,removal of rubbish,dressing and supply planting at 15 cm apart,including supplying a manure at rate of 0.18cum per 100 sqm com MORTH Specification No.307 (KSRRB 19.80)	Rate	23.91 g and b obs grass eading of s per spe	Cum reaking of s roots and f farm yard cifications.					

1.2	TURF								
1.2.1	ZOYSIA JAPONICA (MAT) (Non SOR Item)								
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.32Rate156.80Sqm								
1.2	IRRIGATION								
1.2.1	supply and fixing of irrigation lines such th plants are adequately watered; by means sub surface for shrubs and lawn areas / g sprinklers for lawn areas. (Equipment make All material used should be comply to BSI co and pump required for complete commission (Non SOR Item)	of drip ground - Rainbi ode. All	irrigation covers a ird or equ the neces	for trees , nd pop up livalent) ssary value					
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.34	Rate	560.00	Sqm					

Executive Engineer MSCL Mangaluru

Manglore Smart City 4.0 Rate Analysis for Kerb Stone

Sr.N	Description	Unit	Qty	Rate/Unit	Amount	Remarks
0.	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))*0.4 5=6.23cum					
	Material					Rate
	Precast C.C. Kerb stone M - 20	Cum	6.230	11874.13	73975.86	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. 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				78314.90	
	Add 1 % Water charges				783.15	
	H ¹				79098.05	
	Add 10 % Contractor's profit				7909.81	
	Add 10% Contractor Overhead		1		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 4.0 Rate Analysis for Water Table (Longitudinal Gutter)

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

Executive Engineer MSCL Mangaluru

Manglore Smart City

4.0 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=25.5c um					
	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
ļ	Beldar	day	2.500	446.20	1115.50	Pg No LIV
ļ	Coolie	day	1.650	446.20	736.23	
ļ	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	A
	Cost per Kerb of width 0.405m =A X 0.102cum (Vol of one Kerb)				1806	Per No

Executive Engineer MSCL Mangaluru

	Description	Unit	ncrete - Fo Quantity	Rate Rs	Cost Rs	Remarks Input ref
	Dry Lean Cement Concrete Sub- base					inputrei
	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)					
	(in randonod)					
	Unit = cum					
	<i>Taking output = 450 cum (990 tonne)</i> a) Labour					
						SI.No.12,F
	Mate	day	1.120	446.200	499.74	ge No.LI
	Mazdoor skilled	day	6.000	446.200	2677.20	SI.No.6,P
		uay	0.000	440.200	2011.20	e No.LIV
	Mazdoor	day	22.000	446.200	9816.40	SI.No.6,P e No.LIV
	b) Machinery					
	Front end loader 1 cum bucket capacity	hour	6.000	593.00	3558.00	SI.No.26,F ge
		lieu	0.000	000.00	0000100	No.XXXX
	Comont concerts botch mix plant @ 75 ours non boun	have	C 000	4505.00	0450.00	SI.No.104
	Cement concrete batch mix plant @ 75 cum per hour	hour	6.000	1525.00	9150.00	age No.l
						SI.No.92,F
	Electric generator 100 KVA	hour	6.000	534.00	3204.00	ge
						No.XXXX
						SI.No.65,I
	Plate Compactor	Day	1.000	254.00	254.00	ge
						No.XXXX\
	Water tanker6 KL capacity	hour	8.000	550.00	4400.00	
	Tipper	tonne.k m	990 x L	4.00	39600.00	
	Add 10 per cent of cost of carriage to cover cost of					
	loading and unloading				3960.00	
	c) Material					
	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	501200.00	000.00
	cum/cum of concrete conforming to clause 602.2.4.	cum	405.000	1460.00	591300.00	800.00
	Coarse Sand as per IS: 383 @ 0.45 cum/cum of	cum	203.000	1700.00	345100.00	800.00
	concrete					
	Cement @ 160 kg/cum of concrete	tonne	72.000	4906.00	353232.00	84.00
	Cost of water	KL	48.000	40.00	1920.00	818.00
	d) Overhead charges @ 10 % on (a+b+c)				136867.13	
	e) Contractor's profit @ 10 % on (a+b+c+d)				150553.85	
	Cost for 450 cum = a+b+c+d+e				1656092.33	
	Rate per cum = (a+b+c+d+e)/450				3680.21	
- 4				say	<u>3680.00</u>	
ote	Quantity provided for aggregate is for estimating					
	purpose. Exact quantity shall be as per mix design.					

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City

5.1 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					
		<u> </u>	Material (Table:- 400-1)					
		A	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	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	2880	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	
			Front end loader 1 cum bucket capacity	hour	6	593	3558	1012
			Tipper 10 tonne	tonne.k m	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	M-017
			2.36 mm below @ 30 per cent	cum	86.4	1150	99360	M-020
			Cost of water	KL	27	40	1080	Page No.V,SI.No.758
4.1A		(i)	Rate per cum for grading-II Material					
			d) Overhead charges @ 10% on (a+b+c)				44623.78	
			e) Contractor's profit @ 10% on (a+b+c+d)				49086.15	
			Cost for 225 cum = a+b+c+d+e				539947.7	
			Rate per cum = (a+b+c+d+e)/225				2399.767	
						say	2400	

Executive Engineer MSCL Mangaluru

Name of the Work :- Mangalore Smart City

Sr.No.	Description	Unit	Quantity	Rate	Amount	Reference
1	including remova	l of rubbis payment	h etc., dispo shall be ma	sal of uns de separa	serviceable ately and st	ootpath/ central verge, material to the dumping acking of serviceable n-Charge.
	Details of cost for	⁻ 10 sqm.				
а	Labour					
b	Beldar	Day	0.25	446.2		KPWD 16-17 SOR, Pg No.LIV SI No.5
с	Collie	Day	1	446.2	446.2	KPWD16-17 SOR, Pg No.LIV,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	

6.0 Rate Analysis of taking out paver block

Executive Engineer MSCL Mangaluru

	8.0 Summary for Maintenance						
Sr.No.	description	Total Amount Rs.					
1	2nd year Maintenance	3,839,432.00					
2	3rd year Maintenance	4,014,226.00					
3	4th year Maintenance	4,116,207.00					
	Total Maintenance Amount	11,969,865.00					
	GST @12% for Maintenance Period on SOR Base Items	908,101.00					
	GST @18% for Maintenance Period on Market Base Items	408,122.00					
	Total	13,286,088.00					

Note:Maintenance cost is approved by KUIDFC

EXECUTIVE ENGINEER MSCL MANGALURU GENERAL MANAGER TECHNICAL MSCL MANGALURU

Name of the Work :- Mangalore Smart City 8.1.0 Abstract for Maintenance of Road and Other Work for DPR 4-1st Year

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

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
9.00	Maintenance for 1st Year: KSRB 4-1.6; Providing and laying in position plain cement concrete of mix M15 Grade with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2015-16)	Cum	7.50	6749.60	50,622
10.00	Maintenance for 1st Year: KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material	Cum	18.75	2477.90	,46,461
11.00	Maintenance for 1st Year: KSRB 4.2.1 : Providing and laying in position reiforcement cement concrete of design Mix M25 with OPC cement @340Kgs,with 20mm and down size graded granite metal coarse aggregate @ 0.47 cum with super plasticisers @3 liters confirming to IS 9103-1999 reafirmed -2008 at machine mixed,concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls,return walls,walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks,anchor blocks & plinths etc.,Including cost of labour,HOM of machinery,curing,complete but excluding cost of reinforcement as per specifications. (Page No 13,SI No : 4.10)	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)	Sqm	360.00	300.87	108,313
13.00	Maintenance for 1st Year: KSRB 4.9.2 : Providing T.M.T steel reinforcement for RCC work including straighting,cutting,bending,hooking,placing in position,lapping and/or welding wherever required,tying with binding wire and anchoring to thr 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
15.00	Maintenance for 1st Year: KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications.Morth specification No.601 (Page No 176,SI No : 22.1)	Cum	7.35	4630.91	34,037

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
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 @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site, Manually laid and compacting with palte compactor ,finishing and curing complete as per specifications.Morth specification No.601 (RA attached)	Cum	20.00	4209.92	84,198
17.00	Maintenance for 1st Year: KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars at 4.5m intervals, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per sprcifications MORTH specification No.602.do with M40 (420Kg per cum Cement,C.A,0.67 cum F.A.044Cum (Page No 176,SI No : 22.2.2)	Cum	16.91	6595.16	1,11,524
18.00	Maintenance for 1st Year: Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealant manufacturer recommends and pouring the sealant all complete including material, manpower (Non SOR Item)	Rmt	35.00	119.60	4,186
19.00	Maintenance for 1st Year: KSRRB 3000 Repair of Joint Grooves with Epoxy Mortar KSRRB M3000-8 Repairs of spalled joints grooves of contraction joints longitudinal joints and expansion joints in concrete pavement using epoxy mortar concrete complete as per specifications.Morth specification No.3005.1 (Page No 257,SI No : 35.8)	Rmt	50.00	378.66	18,933
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-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge). (RA Attached)	Cum	0.10	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

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
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-in- charge.	m	100.00	27.46	2,746
24.00	Maintenance for 1st Year: KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No 182,SI No : 24.1)	Sqm	11.55	91.52	1057
25.00	Maintenance for 1st Year: P/F FRP Recess Cover (2.5T) 900mmx600 mm with frame on Manhole for electrical ducting.	Nos.	3.00	8395.92	25,188
26.00	Maintenance for 1st Year: P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD. (Rate analysis attached)	Nos.	8.00	5487.63	43,901
27.00	Maintenance for 1st Year: P/F FRP Water gully cover with frame (25T) 600mmx500 mm at level footpath. (Rate analysis attached)	Nos.	1.00	6048.15	6,048
28.00	Maintenance for 1st Year: Providing gully pipe lowering,laying of PVC 100 mm dia pipes to the required alignments including specials and grade as indicated in drawings/design and hydraulically testing of the pipe line.The rate shall include all jointing materials,testing apparatus and water for testi g etc as directed by the Engineer in charge (page No.41,Item No.7,KUWSDB SOR 2016-17)	Rmt	6.00	313.58	1,881
29.00	Maintenance for 1st Year: KSRB 11-18-17.1 : Providing and fixing sand cast iron trap of 100mm dia, of self cleaning design with screwed down or hinged grating with or without vent arm including cutting and making good the walls and floors, cost of materials, labour, testing, complete as per specifications Specification No. KBS 11.1.10. (PWD SR 2015-16,P.No.86, SI.No.12.89)	Nos.	10.00	949.52	9,495
30.00	Maintenance for 1st Year: KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings complete as per specifications. Case-III :Triple row for three utility services. (PWD SR 2015-16,SI.No.24.36)	Rmt	4.00	5745.17	22,981
31.00	Maintenance for 1st Year: Providing and laying Dia 200mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5,Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7.The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years. (Market Rate)	Rmt	150.00	1619.16	2,42,874

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
32.00	Maintenance for 1st Year: Providing and laying Dia 160mm HDPE Electrical pipe Conduits with Silicore Lubricant inner layer with ribs, dimensional ratio of 13.5,Deflection not greater than 5% when exposed to the normal operating temparature 90°C under the over burden soil presuure and other physical properties comforming to ASTMF 2160 and /or NEMA TC7.The expected service life of HDPE pipe conduits and accessories shall not be less than 50 years.(Market Rate)	Rmt	100.00	1111.66	1,11,166
33.00	Maintenance for 1st Year: Providing and Fixing Spacers for Power Ducts of size 200 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20.00	1143.42	22,868
34.00	Maintenance for 1st Year: Providing and Fixixng Spacers for Power Ducts of size 160 mm, to be placed at an interval of 1.5 meter. Spacers shall be made of ABS raw material. (Market rate)	Nos.	20.00	2219.58	44,392
35.00	Maintenance for 1st Year: Supplying 7-way 40mm HDPE pipe Multi-way Duct Silicore Lubricant inner layer for ICT fibre cables comforming to ASTMF 2160 and /or equivalent indian standard and conveying to work site including loading and unloading at both destination and rolling,lowering into trenches,laying true to line and jointing of pipe etc.Complete. (Market Rate)	Rmt	40.00	625.35	25,014
36.00	Maintenance for 1st Year: Supplying and Application charges required for stamping the freshly laid new concrete (Concrete rate is not included in this item) including finishing and colouring the top surface accurately to the required level,shape and size using approved colour shade and staping it using approved stamp pattern and antiquitting it on top with approved colour.Sealing entire area with concrete sealer.	Sqm	200.00	713.86	1,42,772
37.00	Maintenance for 1st Year: Providing and laying heavy duty cobble stones 75mm thick, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 30mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. (Page No 101,SI No : 14.7)	Sqm	30.00	1274.42	38,233
38.00	Maintenance for 1st Year: KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No. 507 -using 100/120 TPH capacity H.M.P. with sensor paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(KPWD 16-17,S.I.No.21.17.1,Page No.163)	Cum	12.00	8332.90	99,995
39.00	Maintenance for 1st Year: KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-40 Bitumen	Cum	3.20	10022.58	32,072

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
40.00	Maintenance for 1st Year: KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications	Nos.	10.00	330.62	3,306
41.00	Maintenance for 1st Year: Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface:Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area,thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be level,uniform and free from streak and holes complete as per specifications.MORTH specification No.803 (Page No 192,SI No : 24.57)	Sqm	30.00	490.78	14,723
42.00	Maintenance for 1st Year: Operation and Maintenance for eToilets Stainless Steel Public Model as specified in Road and Other works BOQ Item No.45.	Nos	3.00	63648.00	1,90,944
43.00	Maintenance for 1st Year: Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	2.00	4680.00	9,360
44.00	Maintenance for 1st Year: Providing and fixing of railing as detail design in MS HOLLOW SECTION and bars (shop drawing to be approved),with vertical support of 0.9m @2.2mc/c, all complete to the satisfaction of the Landscape architect.(Non SOR Item)	MT	0.30	104000.00	31,200
45.00	Maintenance for 1st Year: Excavation and removal of silt and silt mixed with sand in slussy condition from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with lead upto 50 m and all lifts. For Desilting of drains and grit chambers including cost of all materials, scaffolding HOM of machineries with all lead and lifts, labour charges including implementation of Environmental and Social Safeguards & as per design, drawing, technical specifications and directions of Engineer-in- charge.	Cum	1015.00	186.16	1,88,952
46.00	Maintenance for 1st Year: Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead	Cum	200.00	107.08	21,416
47.00	Item No 17.4 KSRRB M100-4.1-Earth 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
48.00	Electrical Works Maintenance for 1st Year: Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required (Delhi analysis of rates E & M 2016, item 12.42, pg 395))	Nos.	1.00	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

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
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.	145.00	644.80	93,496
54.00	Maintenance for 1st Year: Supply, installation, testing and commissioning of outdoor junction box for mounting MCB/Contactors with all required accessories and componenets	Nos.	1.00	12254.24	12,254
55.00	Maintenance for 1st Year: Supply and fixing of miniature circuit breaker on exisiting board using necessasary fixing material and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10 KA complete wiring as required confirming to IEC 60898 5- 32A TPN Electrical SOR- 6.16.5)	Nos.	1.00	1608.88	1,609
56.00	LT Cable 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

Sr. No.	Specification	Unit	Total Qty.	Rate	Amount
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	1.00	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				
62.00	SOIL MIXES and Ground Preparation Maintenance for 1st Year: Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item)	Cum	1.50	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
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.		382.19	117.83	45,033
	TURF				
67.00	(Non SOR Item)	Sqm	3.00	163.07	489
68.00	IRRIGATION Maintenance for 1st Year: Watering with tanker to landscape area and plants for one year	Year	1.00	31085.11	31,085
69.00	Maintenance for 1st Year: supply and fixing of irrigation lines such that all the green areas and plants are adequately watered; by means of drip irrigation for trees, sub surface for shrubs and lawn areas / ground covers and pop up sprinklers for lawn areas. (Equipment make - Rainbird or equivalent) All material used should be comply to BSI code. All the necessary value and pump required for complete commissioning to be installed. (Non SOR Item)	Sqm	3.00	582.40	1,747
				Total	28,13,765