MANGALURU SMART CITY

1.1 Grand Summary for Under Ground Drainage Zone 4 -Part 2 and Zone 3 Part 1

Sr. No.	Description	
1	Under Ground Drainage	68,619,965
2	Utility Shifting -Compound wall,Culvert and RCC Drain	1,811,827
3	Electrical Pole Shifting	2,242,472
	Total Cost	72,674,264
	Escalation and Tender Premium at 10 %	7,267,426
	Add Contingency @ 3%	2,180,228
	Taxes as applicable	8,720,912
	Adminstrative charges, Miscellaneous and rounding off (LS)	4,157,170
	Grand Total	95,000,000

Executive Engineer MSCL Mangaluru

Managing Director MSCL Mangaluru

MANGALURU SMART CITY

1.2 BOQ of UNDERGROUND DRAINAGE for Zone 4 Part 2 and Zone 3 Part 1

BOQ item No.	Specification	Unit	Quantity	Rate	Amount	Remarks
	UNDERGROUND DRAINAGE					
1	KSRRB200-8. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications KSRB Pg No.136,SI No.18.11	Sqm	13554.48	6.72	91,086	
2	Cutting asphalt road surface for pipeline trenches and disposing off the excavated stuff with all lead and lift as directed including barricading,danger lighting etc., KUWSDB-15-16 SI No.5.2,Pg No.17	Cum	2440.87	647.36	1,580,123	
3	Cutting Concrete road surface for pipeline trenches and disposing off the excavated stuff with all lead and lift as directed including barricading,danger lighting etc., KUWSDB-15-16 SI No.5.3,Pg No.17	Cum	271.21	1298.08	352,050	
4	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. (As per Rate analysis)	Sqm	1908.26	41.25	78,716	
5	Earthwork excavation for pipeline trenches (Except building work) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever neccessary as directed in the following Strata KUWSDB SR 15-16, SI No 1-i-(a), Pg No 5	Earthwork excavation for pipeline trenches (Except building work) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever neccessary as directed in the following Strata				
	do in all soils mixed mixed with boulders of 30 cms size upto an exclusive of disintegrated rock D182					
	0 to 2mtr depth	Cum	14413.87	196.00	2,825,118	80%
	2 to 4mtr depth	Cum	723.29	259.84	187,938	30%
	4 to 6mtr depth	Cum	5.62	346.08	1,946	5%
6	Earthwork excavation for pipeline trenches (Except building work) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever neccessary as directed in the following Strata KUWSDB SR 15-16, SI No 1-ii-(a), Pg No 5					
	In disintegrated rock, soft rock, soft shale, medium hard rock comprising of lime stone, sand stone, hard shale, schiest, fissured rock without resorting to blasting					
	0 to 2mtr depth	Cum	1801.73	442.40	797,087	10%
	2 to 4mtr depth	Cum	482.19	495.04	238,703	20%
	4 to 6mtr depth	Cum	11.25	572.32	6,436	10%
7	Earthwork excavation for pipeline trenches (Except building work) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever neccessary as directed in the following Strata KUWSDB SR 15-16, SI No 1-iii-(a), Pg No 7					
	In hard laterite rock or hard laterite rock containing iron ore upto 20% by chistelling and trimming to proper slope	C	000.07	674.04	607.400	F0/
	0 to 2mtr depth	Cum	900.87	674.24	607,400	5%

BOQ item No.	Specification	Unit	Quantity	Rate	Amount	Remarks
	2 to 4mtr depth	Cum	241.10	807.52	194,689	10%
	4 to 6mtr depth	Cum	5.62	874.72	4,919	5%
8	Earthwork excavation for pipeline trenches (Except building work) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever neccessary as directed in the following Strata KUWSDB SR 15-16, SI No 1-iv-(a), Pg No 7					
	In hard laterite rock containing iron ore above 20% by chistelling and trimming to proper slope					
	0 to 2mtr depth	Cum	360.35	1430.24	515,382	2%
	2 to 4mtr depth	Cum	241.10	1500.80	361,836	10%
	4 to 6mtr depth	Cum	11.25	1571.36	17,672	10%
9	Earthwork excavation for pipeline trenches (Except building work) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever neccessary as directed in the following Strata KUWSDB SR 15-16, SI No 1-vi-(a), Pg No 9					
	In hard rock by Controlled blasting					
	0 to 2mtr depth	Cum	360.35	1413.44	509,328	2%
	2 to 4mtr depth	Cum	241.10	1565.76	377,497	20%
	4 to 6mtr depth	Cum	44.98	1616.16	72,702	30%

BOQ item No.	Specification	Unit	Quantity	Rate	Amount	Remarks
10	Earthwork excavation for pipeline trenches (Except building work) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever neccessary as directed in the following Strata KUWSDB SR 15-16, SI No 1-v-(a), Pg No 7					
	In hard rock by chistelling					
	0 to 2mtr depth	Cum	180.17	1780.80	320,853	1%
	2 to 4mtr depth	Cum	241.10	1910.72	460,665	10%
	4 to 6mtr depth	Cum	44.98	1975.68	88,875	40%

BOQ						
item No.	Specification	Unit	Quantity	Rate	Amount	Remarks
11	Providing course sand bedding for the pipeline trenches including watering and consolidation by punners etc.,complete with all lead and lift (In black cotton and rock reaches) KUWSDB 15-16,Pg No 17,SI No.6	Cum	145.08	1809.92	262,575	
12	Providing Muram/Gravel Bedding for the pipeline trenches including watering and consolidation by punners etc., complete with all lead and lift as directed including barricading, danger lighting etc., as directed by the Engineer-in-Charge etc., complete, for all type of soils excluding black cotton soil and rock reaches. KUWSDB Pg No.17,SI No.6.1,6.2	Cum	1015.53	276.64	280,936	
13	Providing and laying in position plain cement concrete of M15 grade with cement at 240kgs, with of 20 mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.45cum for foundation and levelling course, machine mixed, concrete laid, well compacted, including cost and conveyance of all materials, all leads and lifts, loading and unloading, labour, hire charges of machinery, T&P., curing and all other incidental items of work required for successful completion of the work and as directed by the Engineer -incharge of the work etc complete. PCC Bedding at water logged area and drians KSRB 16-17, Pg No.12, SI No.4.1	Cum	290.15	6093.92	1,768,159	
14	Supplying Unplasticised PVC pipes confirming to IS 15328:2003 with latest amendments ended with integral sockets with ISI mark and conveying to worksite,rolling and lowering into trenches,Laying true to line and level and perfect linking at joints,testing and commissioning,including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of UPVC Pipes (with cost of elastomeric sealing rings) and specials (excluding cost of specials) with jointing of approved type,with all labour with all lead and lift including encasing the pipe alround to a depth of not less than 15cms with soft gravel or selected earth available from the excavation etc.,complete and giving neccessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) KUWSDB,Pg No 205 and 207,SI No 4.3					
а	Supply and laying of PVC- U Pipes as per IS 15328 SN 4 -Ring tite: 200mm	Rmt	7326.00	804.40	5,893,034	
15	Supplying Unplasticised PVC pipes confirming to IS 15328:2003 with latest amendments ended with integral sockets with ISI mark and conveying to worksite,rolling and lowering into trenches,Laying true to line and level and perfect linking at joints,testing and commissioning,including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of UPVC Pipes (with cost of elastomeric sealing rings) and specials (excluding cost of specials) with jointing of approved type,with all labour with all lead and lift including encasing the pipe alround to a depth of not less than 15cms with soft gravel or selected earth available from the excavation etc.,complete and giving neccessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) KUWSDB,Pg No 205 and 207,SI No 4.4					
а	Supply and laying of PVC- U Pipes as per IS 15328 SN 4 -Ring tite: 250mm	Rmt	39.00	1246.76	48,624	

BOQ item No.	Specification	Unit	Quantity	Rate	Amount	Remarks
16	Supplying Unplasticised PVC pipes confirming to IS 15328:2003 with latest amendments ended with integral sockets with ISI mark and conveying to worksite,rolling and lowering into trenches,Laying true to line and level and perfect linking at joints,testing and commissioning,including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of UPVC Pipes (with cost of elastomeric sealing rings) and specials (excluding cost of specials) with jointing of approved type,with all labour with all lead and lift including encasing the pipe alround to a depth of not less than 15cms with soft gravel or selected earth available from the excavation etc.,complete and giving neccessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) KUWSDB,Pg No 207 and 207,SI No b1					
	Supply and laying of PVC- U Pipes as per IS 15328 SN 8 -Ring tite: 110mm	Rmt	6300.00	305.96	1,927,548	
17	Construction RCC M25 circular inspection chamber 600 mm dia x 600mm depth (clear inside dimension) for single pipeline, with M15 PCC bed for 100 mm thick using mix with cement @240 kgs granite graded metal of 20 mm and down size and clean sieved river sand , M25 RCC raft & sidewall concrete with 20mm and downsize granite metal, , finish smooth with a floating coat of cement on walls and bed concrete complete , including fixing and grouting of pipes, including conveying to work spot supply and fixing SFRC manhole cover and frame (Heavy Duty) confirming to IS: 12592 with latest amendments as per standard design including cost of reinforcement, all materials, labour charges, curing complete as per specifications. As Per Data Rate	Nos	526.00	6637.00	3,491,062	
18	Making connections of drain or sewer line of size 100mm to 230mm external dia with existing manhole including breaking into and making good the walls, floors with cement concrete M15 with 20mm and downsize granite metal mix cement plastered on both sides with cement mortar 1:3 finished with a floating coat of neat cement and making necessary channels for the drain etc., complete PWD SR 2016-17,SI No.11.47.3,Pg No.73		25.00	1942.08	48,552	

BOQ						
item	Specification	Unit	Quantity	Rate	Amount	Remarks
No.		-				
	Constructing RCC Manhole chamber of 1:1.5:3 proportion or approved type pre-cast RCC manhole chambers, constructed using form vibrators of standard type, with barricading, danger lighting and using of sight rails and boning rods wherever necessary, shoring and strutting wherever required using ordinary port land cement, using 1:1.5:3 proportion RCC with 20 mm and down graded jelly, well graded sand and steel of approved quality, 200 mm thick top concrete slab, having wall thickness and raft thickness as in approved drawings and with an offset in raft alround the chamber as in approved drawing, benching concrete with 1:6 slope towards the central drain finished smooth, including fixing and grouting of pipes, including conveying to work spot supply and fixing SFRC manhole cover and frame (Heavy Duty) confirming to IS: 12592 with latest amendments, on a bed of CC 1:2:4 supplying and fixing of minimum 3 mm thick encapsulated plastic footsteps (as per IS 10910) on 12 mm dia. Grade Fe-415 steel bar (as per IS 1786) staggered at 300 mm apart as detailed in Technical specifications, including sand bedding wherever required,		Quantity	Rate	Amount	Remarks
	disposal of surplus earth, watering, curing, engraving manhole number with flow direction on the inner cylindrical surface etc., complete including cost of reinforcement steel and fabrication					
A	charges and also cost and conveyance of all materials, labour 1.2 m dia manholes					
a	For 1.0 m depth	Nos	16.00	42516.32	680,261	
b	For 1.1 m depth	Nos	4.00	44077.60	•	
С	For 1.2 m depth	Nos	64.00	45641.12	2,921,032	
d	For 1.3 m depth	Nos	31.00	47124.00	1,460,844	
е	For 1.4 m depth	Nos	30.00	48686.40	1,460,592	
f	For 1.5 m depth	Nos	40.00	50248.80	, ,	
g	For 1.6 m depth	Nos	20.00	51812.32	1,036,246	
h ·	For 1.7 m depth	Nos	8.00	53373.60	•	
I	For 1.8 m depth	Nos	12.00	54857.60	658,291	
J le	For 1.9 m depth	Nos	4.00	56420.00	· · · · · · · · · · · · · · · · · · ·	
k	For 2.0m depth For 2.1m depth Difference of basic rate for Manhole depth 2m &	Nos	7.00	58387.84	408,715	
m	For 2.2m depth	Nos Nos	7.00 13.00	59988.32 61588.80	419,918 800,654	
m n	For 2.3m depth	Nos	4.00	63189.28	252,757	
0	For 2.4m depth	Nos	7.00	64789.76	453,528	
р	For 2.5m depth	Nos	2.00	66390.24	132,780	
q	For 2.6m depth	Nos	4.00	67990.72	271,963	
r	For 2.7m depth	Nos	7.00	69591.20	•	
S	For 2.8m depth	Nos	5.00	71191.68	355,958	
t	For 2.9m depth	Nos	4.00	72792.16	291,169	
u	For 3.0m depth	Nos	2.00	74392.64	148,785	
	1.5 m dia manholes					
a	For 3.1m depth Difference of basic rate for Manhole depth 3m & 4m (100811-83642)	Nos	5.00	95601.97	•	
b	For 3.2m depth	Nos	4.00	97524.90	•	
С	For 3.3m depth	Nos	4.00	99447.82	397,791	
d	For 3.4m depth	Nos	3.00	101370.75		
e	For 3.5m depth	Nos	1.00	103293.68	103,294	
	For 3.7m depth	Nos Nos	1.00 1.00	105216.61 107139.54	105,217	
g h	For 3.7m depth For 3.8m depth	Nos	0.00	107139.54	107,140	
i	For 3.9m depth	Nos	1.00	110985.39	110,985	
	For 4.0m depth	Nos	2.00	112908.32	225,817	
k	For 4.1m depth Difference of basic rate for Manhole depth 4m & 5m (125272-100811)	Nos	0.00	115647.95	-	
I	For 4.2m depth	Nos	2.00	118387.58	236,775	
<u> </u>	- ····		2.00			
			1			I

BOQ item No.	Specification	Unit	Quantity	Rate	Amount	Remarks
20	Providing and fixing Drop arrangements ,with following diameter HDPE Garde PE-100 Pipes,confirming to PN 6 as per IS 4984-1995 with latest amendments vertical drop pipe with MS fastenings at 300 mm dia C/C,with suitable expander /reducer HDPE T joint at top with incoming sewer with one end of Tee inside the manhole closed with end cap and 45 degree bend at the bottom with HDPE Specials and encasing the pipe outside manhole with cement concrete of 1:2:4 proportion,150/200 mm thick alround the HDPE pipe including vibrating,Compacting,Necessary centering and formwork,curing testing,including cost and conveyance of all materials,labour with all lead and lift etc.,complete as perspecification drawing and as directed by the engineer in charge BWSSB SI No.98,Pg No.91					
	For 150/200 mm dia incoming sewer pipe - Zone 4 Part 2	Rmt	14.51	4792.48	69,539	
21	Refilling Pipeline Trenches and foundation with selected available earth from trench excavation and foundation including watering, consolidation in layers of 15cms., thick including disposing off the surplus earth with all lead and lift. KUWSDB Pg No 15, SI No 2	Cum	11412.20	66.08	754,118	
22	Removal of Unserviceable Soil with Disposal KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301 KPWD Pg No. ,SI No.19.20	Cum	12183.65	135.52	1,651,128	
23	KSRRB M400-6.1 Construction of granualr sub-base by providing close graded crushed stone aggregates of granite/trap/basalt 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 specifications, Including environmental and social safe guards, including all taxes, as directed by the Engineer-in-Charge etc. Close graded granular sub-base material as per 400-1, For Grading - I material, by Plant Mix Method KSRB Pg No.155,20.4.1	Cum	4045.75	1812.16	7,331,546	
24	KSRRB M400-Wet Mix macadam KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including per mixing the material with water at OMC in Mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub- base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specification. MORTH Specification NO.406 KSRB Pg No 158,20.18	Cum	3371.46	1868.16	6,298,427	
25	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6	Sqm	13485.83	29.12	392,707	

BOQ item No.	Specification	Unit	Quantity	Rate	Amount	Remarks
26	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant 40/60 TPH capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 / 75 mm compacted thickness with 3.4% bitumen but excluding cost of primer/tack coat with all lead and lift including cost of materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5, using 60/70 grade bitumen, Including environmental and social safe guards, including all taxes, as directed by the Engineer-in-Charge etc., complete. 50mm thick KSRRB Pg No.162,SI No. 21.11.6	Cum	674.29	6054.72	4,082,637	
27	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5	Sqm	13485.83	13.44	181,250	
28	Providing and laying Semi dense bituminous concrete with 40-60 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filter, transporting the hot mix to work site, laying with a hydrostatic paver finisher with mechanical paver 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. 500.8, 25 mm compacted thickness with 5% bitumen 60/70 grade using 40-60 HMP (Grading II) using mechnical paver, with all lead and lift ,Labour, as per specification, Including environmental and social safe guards, including all taxes, as directed by the Engineer-in-Charge etc., complete. 25mm thick KSRRB Pg No.163,SI No. 21.20.6	Cum	337.15	7778.40	2,622,488	
29	Dewatering for Lowering of water table to creat dry conditions at least upto the bed of the excavation including the cost of material, labour T & P articles & machinery laying sewer line & Manholes as per approved drawings according. to the requirement of the construction of structure. The cost of this work shall be inclusive of disposal of water pumped out at a safe place away from the structure. The dewatering will work till the completion of the structure as per approved drawings ,with all horizontal leads and lifts etc., complete in all respects as per specification and as directed by engineer. During the execution of work enough precaution should be taken by the contractor to ensure that the clear water flows from the delivery pipe of pumps to avoid any settlement of soil during the process. (Rate analysis attached)	Day	30.00	4218.20	126,546	

BOQ item No.	Specification	Unit	Quantity	Rate	Amount	Remarks
30	Sheet piling: Providing and installing sheet piling for both sides of the trench for following depths with mild steel sheets not less than 6.5 mm thick, stronger knife edge, recessed spreader sockets, 3" single or double wall shields, to be designed by the contractor to withstand all types of soils, maximum depths of as per the approved design drawing, including labour charges for installing and removing the sheet piling at various reaches of sewer line construction, including loading, unloading, transporting to the suitable location etc. complete with all lead and lifts (Measurement shall be taken for one side only eventhough it is provided for both sides) BWSSB 16-17 SI No.93,Pg No.90					
	0-3m depth	Sqm	1729.08	640.64	1,107,718	
	Above 3m upto 10m depth	Sqm	1183.78	850.08	1,006,311	
31	KSRB 14.6-2 :Providing and laying heavy duty cobble stones 75mm thick interlock pavers, 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 50mm 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. PWD (16-17,Pg No.101,SI No.14.7)	Sqm	2582.13	1086.40	2,805,226	
	Total				69,379,958	
					09,379,930	
	UTILITY SHIFTING					
A	DISMANTLING KCDDD M200 42.2 Diamontling of existing etweetures like					
1	KSRRB M200-13.2. 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. II.By Mechanical Means. MORTH Specification No. 202 KSRRB Pg No.137,SI No.18.21	Cum	82.91	673.12	55,807	
2	KSRRB M200-14.2. 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. ii) Dismantling brick/Tile work B. In cement mortar. MORTH Specification No. 202 KSRRB Pg No.137,SI No.18.23	Cum	35.53	273.28	9,710	
В	COMPOUND WALL					
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 KSRRB Pg No.5,SI No.2.3	Cum	102.60	211.68	21,718	
2	KSRB 4-1.1: Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 KSRRB Pg No.12,SI No.4.1	Cum	18.14	5838.56	105,924	

BOQ item No.	Specification	Unit	Quantity	Rate	Amount	Remarks
3	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6 stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 KSRRB Pg No.254,SI No.34.8.2	Cum	64.80	4689.44	303,876	
4	Providing & constructing laterite size stone masonry in CM 1:6 including cost and conveyance of all materials curing, etc complete as per specification I.S. 3620 / 1979 having compressive strength not less than 3.5 N/mm2 for saturated dry samples. For super structure in CM 1:6 (Cement 45 kgs/M3) (Ground Floor) KSRRB Pg No.267,SI No.37.66.1	Cum	27.93	4939.20	137,946	
5	KSRB15-3.11: Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. KSRRB Pg No.114,SI No.15.19	Sqm	336.82	262.08	88,274	
6	KSRB 15-16.1: Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications with primer. KSRRB Pg No.118,SI No.15.53.2	Sqm	336.82	94.08	31,688	
7	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. including cost of all labour complete as per specifications. Specification No. KBS 2.9	Cum	34.20	142.24	4,865	
	KSRRB Pg No.6,SI No.2.1					
C	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 KSRB Pg No 5,SI No.2.3	Cum	207.03	211.68	43,824	
2	KSRRB M2900- PCC 1:3:6 in Foundation KSRRB M2900-1. Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications MORTH Specification No. 408 KSRB Pg No.253,SI No.34.1	Cum	11.30	4966.08	56,092	
3	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6 stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 KSRB Pg No.254,SI No.34.8.2	Cum	33.20	4689.44	155,712	
4	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KSRB Pg No.254,SI No.34.9	Cum	22.68	5605.60	127,135	

BOQ item No.	Specification	Unit	Quantity	Rate	Amount	Remarks
5	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. – do – cement mortar 1:4 KSRB Pg No.254,SI No.34.12.1	Sqm	75.60	108.64	8,213	
6	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 300mm. dia KSRB Pg No.253,SI No.34.6.1	Rmt	50.00	1772.96	88,648	
7	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 450mm. dia KSRB Pg No.253,SI No.34.6.2	Rmt	50.00	3099.04	154,952	
8	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. including cost of all labour complete as per specifications. Specification No. KBS 2.9 KSRB Pg No.6,SI No.2.10	Cum	69.01	142.24	9,816	
D	RCC DRAINS					
1	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary Soil not exceeding 1.5 m.in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m after breaking of clods complete as per specificationsincluding clearing vegetation, shoring, strutting, dewatering if required, and ramming with selected earth for foundation and disposing off excess excavated material as approved by Engineer etc. complete with all lead and lift including danger lighting wherever necessary as directed in the following strata. KSRB Pg No.5,SI No.2.3	Cum	85.19	211.68	18,032	
2	Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted in foundation, plinth and cills, including cost of all materials, labour, HOM of machineries, curing complete as per specifications. KSRB Pg No 12,SI No.4.1	Cum	5.74	5838.56	33,499	
3	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70 cum and fine aggregates @ 0.47cum, with super plasticisers @ 3 liters conforming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestrals, retaining walls, returnwalls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. KSRB Pg No.13,SI NO.4.10	Cum	18.60	6967.52	129,596	

BOQ						
item No.	Specification	Unit	Quantity	Rate	Amount	Remark
4	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete with all lead lifts and as per specifications and directinon of Engineer-in-Charge. FE 500 KSRB Pg No.17,SI No.4.46.2 Rev.	MT	1.86	67879.84	126,257	
5	Providing and removing, centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. KSRB Pg No.15,SI No.4.28	Sqm	31.50	258.72	8,150	
6	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses plinth cills and string courses cost of all materials, labour complete as per specifications. KSRB Pg No.15,SI No.4.31	Sqm	216.00	328.16	70,883	
7	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200mm including cost of all materials, labour complete as per specification. (Ground floor) KSRB,Pg No.15,SI No.4.18	Sqm	27.00	350.56	9,465	
8	KSRRB M2200 - Providing Weep holes Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with PVC 90mm outer dia pipe 2 kg / Sqcm, extending through the full width of the structure with slope of 1V:20H towards drawing force complete as per drawing and Technical specifications complete as per specifications. KSRB,Pg No.225,SI No.28.10	Rmt	9.00	283.36	2,550	
9	Providing and laying of filter media with granular materials/stone crushed aggrigates satisfying the requirement laid down in clause 2500.4.2.2 of morth specification to a thickness not less than 600 mm with smaller size to wards the soil and bigger size towards the wall and provided over the entire surface behind the abutment, wing wall and return wall to full hight compacted to afirm condition complete as per drawing and technical specification KSRB,Pg No.225,SI No.28.13	Cum	2.43	1451.52	3,527	
10	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. including cost of all labour complete as per specifications. Specification No. KBS 2.9 KSRB Pg No.6,SI No.2.10	Cum	39.85	142.24	5,668	
	Total				1,811,827	
	Electrical Pole shifting cost				2,242,472	
		73,434,257				

Executive Engineer MSCL Mangaluru

Superintending Engineer MSCL Mangaluru

MANGALURU SMART CITY 1.30 Measurement Sheet of UNDERGROUND DRAINAGE Zone 4 Part 2 and Zone 3 Part 1

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	KSRRB200-8. Clearing and grubbing road land including uprooting rank						
	vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm,						
	by manual means, in area of light jungle, removal of stumps, disposal of						
1	unserviceable materials, stacking of serviceable materials labour charges						
	complete as per specifications						
	KSRB Pg No.136,Sl No.18.11						
	Zone 4 Part 2	Sqm	1				11553.96
	Zone 3 Part 1	Sqm	1				2000.52
	Total	Sqm				Total	13554.48
	Cutting asphalt road surface for pipeline trenches and disposing off the						
2	excavated stuff with all lead and lift as directed including						
_	barricading,danger lighting etc.,						
	KUWSDB-15-16 SI No.5.2,Pg No.17						
	Zone 4 Part 2						
	For Trench line						
	Old Port Road	Cum	1	F2 90	1 20	0.20	12.67
	MH 2551 to O92 Azizudheen Road	Cum	1	52.80	1.20	0.20	12.67
	MH 2550 to MH 2565	Cum	1	56.50	1.20	0.20	13.56
	Azizudheen Road	Carri		30.30	1.20	0.20	13.30
	MH 646 to MH 2565	Cum	1	52.10	1.20	0.20	12.50
	Azizudheen Road						
	MH 315 to MH 2247	Cum	1	37.60	2.10	0.20	15.79
	Azizudheen Road						
	MH 2239 to MH 2565	Cum	1	146.00	1.20	0.20	35.04
	Azizudheen Road						
	MH 435 to MH 2243	Cum	1	34.10	1.20	0.20	8.18
	Azizudheen Road			50.00	2.40	0.00	20.00
	MH 2565 to MH 379 Bunder Road and old Port Road	Cum	1	69.00	2.10	0.20	28.98
	MH 2548 to MH 2296	Cum	1	390.30	1.20	0.20	93.67
	Azizudheen Road	Cuiii		330.30	1.20	0.20	33.07
	MH 2209 to MH 2521	Cum	1	85.90	1.20	0.20	20.62
	Old Port Road						
	MH 2553 to MH 2558	Cum	1	87.30	1.20	0.20	20.95
	Cross Road						
	MH 930 to MH 2563	Cum	1	79.60	2.20	0.20	35.02
	Bunder Cross Road						
	MH 2520 to MH 2292	Cum	1	107.20	1.20	0.20	25.73
	Cartstreet Road	Civina		107.40	1 20	0.20	47.20
	MH 1750 to MH 2525 Lower Carstreet Road	Cum	1	197.40	1.20	0.20	47.38
	MH 517 to MH 2508	Cum	1	207.70	2.35	0.20	97.62
	Lower Carstreet Road	Cuiii		207.70	2.55	0.20	37.02
	MH 269 to MH 270	Cum	1	26.60	1.20	0.20	6.38
	Lower Carstreet Road						
	MH 1600 to MH 1624	Cum	1	422.00	2.10	0.20	177.24
	Lower Carstreet Road						
	MH 1763 to MH 2539	Cum	1	48.60	1.20	0.20	11.66
	Basavana Gudi Street and Kandathpalli Road						
	MH 1194 to MH 1610	Cum	1	362.00	2.10	0.20	152.04
	Cross and Mochigali Road	-	4	454.55			22.5
	MH 715 to MH 1026	Cum	1	151.40	2.30	0.20	69.64
	Bibi Alabi Road	Cura	1	70.00	4 30	0.20	10.42
	MH 2259 to MH 2495 Bibi Alabi Road	Cum	1	76.80	1.20	0.20	18.43
	MH 692 to 078	Cum	1	111.04	2.38	0.20	52.74
	Bibi Alabi Road	Culli	1	111.04	2.36	0.20	32.74
	MH 1138 to MH 2495	Cum	1	55.00	2.10	0.20	23.10
	Bunder and Ansari Road			32.00			
	MH 2296 to MH 2544	Cum	1	347.30	2.10	0.20	145.87
	Ansari Cross Road						

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH 709 to MH 710	Cum	1	56.50	2.30	0.20	25.99
	Ansari Road						
	MH 2580 to MH 514	Cum	1	49.40	2.75	0.20	27.17
	Ansari Cross Road MH 2581 to MH 636	Cum	1	51.80	2.10	0.20	21.76
	Ansari Road	Cum		31.00	2.10	0.20	21.70
	MH 648 TO MH 649	Cum	1	54.00	2.10	0.20	22.68
	J M 2nd Cross Road						
	MH 2542 TO O 76	Cum	1	172.90	1.20	0.20	41.50
	J M 1st Cross Road	Charac	1	00.00	2.40	0.20	27.20
	MH 2519 TO O 77 Bibi Alabi Road	Cum	1	88.80	2.10	0.20	37.30
	MH 2123 TO MH1247	Cum	1	62.40	1.20	0.20	14.98
	Kasa Gaddi Road						
	MH 1030 to MH 2130	Cum	1	98.80	2.10	0.20	41.50
	J M 2nd Cross and GM Road						
	MH 2130 to MH 2567	Cum	1	152.90	2.10	0.20	64.22
	GM Road MH 2589 to MH 2568	Cum	1	27.60	1 50	0.20	0.20
	J M 2nd Cross Road	Cum	1	27.60	1.50	0.20	8.28
	MH 2590 to MH 81	Cum	1	22.00	2.00	0.20	8.80
	J M 2nd Cross Road					5.23	3.30
	MH 170 to MH 26	Cum	1	22.20	2.00	0.20	8.88
	Urdu School Road						
	MH 705 to MH 2133	Cum	1	59.00	1.20	0.20	14.16
	MPT Cross Road	Cura	1	115 50	1 20	0.20	27.72
	MH 1074 to MH 2546 JM 5th Cross Road	Cum	1	115.50	1.20	0.20	27.72
	MH 2350 to O 73	Cum	1	80.70	1.20	0.20	19.37
	Kasa Gadi Cross Road		_				
	MH 50 to MH 2128	Cum	1	16.20	2.50	0.20	8.10
	MPT Cross Road						
	MH 957 to MH 958	Cum	1	86.50	2.10	0.20	36.33
	Azizudheen Road MH 2575 to MH 2543	Cum	1	207.70	1.20	0.20	49.85
	JM 5th Cross and Kandathpalli west Road	Cum		207.70	1.20	0.20	49.83
	MH 2544 to MH 2571	Cum	1	169.50	2.10	0.20	71.19
	J M 5th Cross Road						
	MH 398 to MH 399	Cum	1	32.70	2.10	0.20	13.73
	Kandathpalli West Road		4	47.70	2.10		20.00
	MH 599 to MH 600 Ansari Road	Cum	1	47.70	2.10	0.20	20.03
	MH 402 to MH 2326	Cum	1	36.00	3.00	0.20	21.60
	Kandathpalli West Road	Cam		30.00	3.00	0.20	21.00
	MH 1211 to MH 2320	Cum	1	126.90	2.80	0.20	71.06
	Kandathpalli West Cross Road						
	MH 2576 to MH 2466	Cum	1	23.60	1.20	0.20	5.66
	Kandathpalli West Cross Road MH 2569 to MH 917	Cum	1	80.70	2.10	0.20	33.89
	Kandathpalli West Road	Cum	1	80.70	2.10	0.20	33.03
	MH 1624 to MH 917	Cum	1	110.80	2.10	0.20	46.54
	Kandathpalli West Road						
	MH 1624 to MH 917	Cum	1	38.60	2.18	0.20	16.79
	Lower Carstreet and Bhatkar Bazar Road						
	MH 2398 to MH 1619	Cum	1	316.90	2.10	0.20	133.10
	Bhatkar Bazar Cross Road MH 287 to MH 288	Cum	1	40.50	2.20	0.20	17.82
	Shree Kalikamba Vinayaka Street	Cuili		40.50	2.20	0.20	17.82
	MH 2522 to MH 2524	Cum	1	79.10	1.20	0.20	18.98
	Cross Road						
	MH 624 to MH 625	Cum	1	52.20	2.00	0.20	20.88
	Cross Road						
	MH 40 to MH 2408	Cum	1	15.40	2.00	0.20	6.16
	Cross Road MH 277 to MH 278	Cum	1	29.00	2.00	0.20	11.60
	MIT 277 to WIT 270	Cuili		29.00	2.00	0.20	11.00

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	Zone 3 Part 1						
	Bridge Road						
	MH-1264 to O-35	Cum	1	285.3	1.20	0.20	68.47
	Zone 4 Part 2						
	For Manhole Area - 1.2m Dia	Cum	230	2.00	2.00	0.20	184.00
	For Manhole Area - 1.5m Dia	Cum	20	2.30			21.16
	Zone 3 Part 1						
	For Manhole Area - 1.2m Dia	Cum	13	2.00	2.00	0.20	10.40
	Household connection						
	Zone 4 Part 2						
	For Household Connection- Zone 4 Part 2 (MH = 206Nos, L=5m X 4		206	40.00	0.60	0.20	247.20
	connections in each manhole)-Road width >3m	Cum	206	10.00	0.60	0.20	247.20
	For Household Connection- Zone 4 Part 2 (MH = 44Nos, L=5m X 4	Cum	44	10.00	0.60	0.20	52.80
	connections in each manhole)-Road width <3m	Cum		10.00	0.00	0.20	<u> </u>
	Zone 3 Part 1						
	For Household Connection- Zone 3 Part 1 (MH = 13Nos, L=5m X 4 connections in each manhole) - Road width >3m	Cum	13	10.00	0.60	0.20	15.60
	Connections in each mannole) - Road width >5111						
		Cum				Total	2712.08
	Total 90% of Quantity for Asphalt Road	Cum					2440.87
	Cutting Concrete road surface for pipeline trenches and disposing off the						
3	excavated stuff with all lead and lift as directed including						
	barricading,danger lighting etc., KUWSDB-15-16 SI No.5.3,Pg No.17						
	Total quantity for Zone 4 Part 2	Cum					2712.08
	Total 10% of Quantity for Concrete Road	Cum					2712.08 271.21
	Taking out existing CC interlocking paver blocks from footpath/ central						
	verge, including removal of rubbish etc., disposal of unserviceable						
4	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.						
	(As per Rate analysis)						
	Zone 3 Part 1						
	Trench Line						
	KSR Cross Road						
	MH-904 to O-30	Sqm	1	0.00	1.40		0.00
	KSR Cross Road						
	MH-1891 to O-11	Sqm	1	0.00	1.40		0.00
	KSR Cross Road MH-728 to MH-1891	Sqm	1	0.00	1.40		0.00
	Balmatta Cross Road	Jqiii		0.00	1.40		0.00
	MH-1027 to MH-1895	Sqm	1	0.00	1.40		0.00
	KSR Cross Road	-					
	MH-666 to O-40	Sqm	1	0.00	1.40		0.00
	KSR Cross Road						
	MH-369 to O-43	Sqm	1	0.00	1.40		0.00
	KSR Cross Road MH-1205 to O-37	Sqm	1	0.00	1.40		0.00
	KSR Cross Road	Jqiii		0.00	1.40		0.00
	MH-155 to O-38	Sqm	1	23.80	0.80		19.04
	Court Cross Road						
	MH-1207 to O-39	Sqm	1	200.70	1.40		280.98
	Court Cross Road						.
	MH-645 to MH-644	Sqm	1	46.00	1.40		64.40
	St Aloysius College Road MH-1003 to O-22	Sqm	1	0.00	1.40		0.00
	St Aloysius College Road	Jqiii		0.00	1.40		0.00
	MH-1469 to O-21	Sqm	1	0.00	1.40		0.00
	St Aloysius College Road and Court Road	•					
	MH-2491 to O-34	Sqm	1	0.00	1.40		0.00

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	Court Road	6	4	0.00	4.40		0.00
	MH-1136 to MH-1537 Court Cross Road	Sqm	1	0.00	1.40		0.00
	MH-826 to MH-827	Sqm	1	0.00	1.40		0.00
	Court Road	34	_	0.00			0.00
	MH-1498 to O-23	Sqm	1	0.00	1.40		0.00
	KRR Cross Road						
	MH-321 to MH-2454	Sqm	1	0.00	1.40		0.00
	KRR Cross Road						
	MH-1065 to O-20 KRR Cross Road	Sqm	1	0.00	1.40		0.00
	MH-1096 to O-18	Sqm	1	0.00	1.40		0.00
	KRR Cross Road	Jqiii		0.00	1.40		0.00
	MH-533 to O-19	Sqm	1	0.00	1.40		0.00
	Bunts Hostel Cross Road						
	MH-353 to O-17	Sqm	1	0.00	1.40		0.00
	Bunts Hostel Cross Road						
	MH- 668 to O-15	Sqm	1	0.00	1.40		0.00
	Bunts Hostel Cross Road	Course	4	0.00	1 40		0.00
	MH-588 to O-16 Bunts Hostel Cross Road	Sqm	1	0.00	1.40		0.00
	MH-928 to O-14	Sqm	1	99.00	1.40		138.60
	Bridge Road	Jan		33.00	1.40		130.00
	MH-1264 to O-35	Sqm	1	0.00	0.80		0.00
	Arya Samaj Road						
	MH-1462 to O-12	Sqm	1	543.10	0.80		434.48
	Arya Samaj Cross Road						
	MH-2498 to O-45	Sqm	1	76.20	1.40		106.68
	Arya Samaj Cross Road	Cours	1	46.00	0.00		26.80
	MH-1390 to O-46 Kadri Cross Road	Sqm	1	46.00	0.80		36.80
	MH-1107 to O-13	Sqm	1	131.80	1.40		184.52
	KRR Cross Road	Jqm		131.00	1.40		104.52
	MH-813 to MH-1416	Sqm	1	84.00	1.40		117.60
	Manhole Portion						
	For Manhole Area - 1.2m Dia	Sqm	48	2.00			192.00
	For Manhole Area - 1.5m Dia	Sqm	4	2.30	2.30		21.16
	Household connection						
	Zone 3 Part 1						
	For Household Connection- Zone 3 Part 1 (MH = 44Nos, L=5m X 4						
	connections in each manhole)-Road width >3m,Length 50%	Sqm	44	10.00	0.60		264.00
	For Household Connection- Zone 3 Part 1 (MH = 8Nos, L=5m X 4						
	connections in each manhole)-Road width<3m,Length 50%	Sqm	8	10.00	0.60		48.00
		Sqm				Total	1908.26
		Jqm				10.01	1300.20
	Earthwork excavation for pipeline trenches (Except building work)						
	including barricading depositing on bank with all lead including danger						
5	lighting and using sight rails and boning rods including						
3	shoring, strutting, bailing out water at every 100 meters wherever						
	neccessary as directed in the following Strata						
	KUWSDB SR 15-16,Sl No 1-i-(a),Pg No 5						
i)	do in all soils mixed mixed with boulders of 30 cms size upto an exclusive of disintegrated rock D182						
A	Zone 4 Part 2	1					
	0 to 2 mtr Depth	1					
	Old Port Road						
	MH 2551 to O92	Cum	1	52.80	0.80	1.21	50.90
	Azizudheen Road						
	MH 2550 to MH 2565	Cum	1	56.50	0.80	1.20	54.13
	Azizudheen Road		4	====			
	MH 646 to MH 2565	Cum	1	52.10	0.80	1.54	64.12
	Azizudheen Road MH 315 to MH 2247	Cum	1	37.60	1.40	1.81	95.41
	Azizudheen Road	Cuili		37.00	1.40	1.01	33.41
	MH 2239 to MH 2565	Cum	1	146.00	0.80	1.56	182.60

Mil 435 to Mil 2243		A = : - · · db = a · · · D = a · d				BREADTH	DEPTH	QUANTITY
Azizudheen Road		Azizudheen Road MH 435 to MH 2243	Cum	1	34 10	0.80	1.43	39.08
Bunder Road and old Port Road MH 3248 to MH 2296			Cum		34.10	0.00	1.43	33.00
MH 2548 to MH 2296 Azizudhean Road MH 2299 to MH 2521 Cum 1 85.90 0.80 Azizudhean Road MH 2299 to MH 2521 Cum 1 85.90 0.80 Old Port Road MH 2558 Cum 1 87.30 0.80 Cross Road MH 2553 to MH 2563 Cum 1 79.60 0.80 Bunder Cross Road MH 2520 to MH 2563 Cum 1 197.60 0.80 Bunder Cross Road MH 2520 to MH 2563 Cum 1 197.40 0.80 MH 3520 to MH 2555 Cum 1 197.40 0.80 MH 3750 to MH 2525 Cum 1 197.40 0.80 MH 3750 to MH 2508 Cum 1 207.70 0.80 MH 351 to MH 2508 Cum 1 207.70 0.80 Cum 1 207.70 0.80 Cum 1 207.70 0.80 MH 268 to MH 270 Cum 1 26.60 0.80 MH 268 to MH 270 Cum 1 422.00 1.40 Cum 254 Cum 1 422.00 1.40 Cum 26.60 0.80 MH 3610 to MH 3639 Basavana Gudi Street and Kandathpalli Road MH 1763 to MH 2539 Cum 1 48.60 0.80 MH 1715 to MH 1026 Cum 1 362.00 1.40 Cross and Mochigail Road MH 715 to MH 206 MH 259 to MP 299 MH 269 to O78 Bibi Alabi Road MH 1250 to MH 2495 Cum 1 76.80 0.80 MH 1250 to MB 2405 MH 255 to MB 2404 MH 138 to MH 2495 Cum 1 75.80 0.80 MH 138 to MH 2495 Cum 1 75.80 0.80 MH 258 to O78 Bibi Alabi Road MH 138 to MH 2495 Cum 1 55.00 1.40 Ansari Cross Road MH 258 to O78 Bibi Alabi Road Cum 1 55.00 1.40 Ansari Cross Road MH 258 to O78 Bibi Alabi Road MH 258 to MH 2495 Cum 1 98.80 Bibi Alabi Road MH 258 to MH 2495 Bibi Alabi Road MH 258 to MH 2495 Bibi Alabi Road MH 258 to MH 2495 Bibi Alabi Road Bibi Alabi Road Bibi Alabi Road Bibi Alabi Road Bib	ſ	MH 2565 to MH 379	Cum	1	69.00	1.40	1.92	185.59
Azizudheen Road								
MH 2209 to MH 2521			Cum	1	390.30	0.80	1.68	526.04
Old Port Road	-		Cum	1	85 an	0.80	1.59	109.21
MH 2553 to MH 2558			Cum	т	83.90	0.80	1.55	109.21
MH 930 to MH 2563			Cum	1	87.30	0.80	1.73	120.85
Bunder Cross Road		Cross Road						
MH 2520 to MH 2292			Cum	1	79.60	0.80	1.62	102.97
Cartstreet Road	-		Court	4	407.20	0.00	4.54	420.20
MH 1750 to MH 2525			Cum	1	107.20	0.80	1.51	129.28
Lower Carstreet Road			Cum	1	197.40	0.80	1.80	283.82
Lower Carstreet Road					137110	0.00	1.00	200.02
MH 269 to MH 270	ſ	MH 517 to MH 2508	Cum	1	207.70	0.80	1.58	263.30
Lower Carstreet Road	l	Lower Carstreet Road						
MH 1600 to MH 1624			Cum	1	26.60	0.80	1.55	32.88
Lower Carstreet Road			Cura	1	422.00	1 10	1.03	1075.00
MH 1763 to MH 2539			Cum	1	422.00	1.40	1.82	1075.96
Basavana Gudi Street and Kandathpalli Road			Cum	1	48.60	0.80	1.38	53.56
Cross and Mochigali Road						0.00		
MH 715 to MH 1026	ľ	MH 1194 to MH 1610	Cum	1	362.00	1.40	1.83	928.05
Bibi Alabi Road		<u> </u>						
MH 2259 to MH 2495			Cum	1	151.40	1.40	2.00	423.92
Bibi Alabi Road			Cum	1	76.90	0.90	1 71	105.01
MH 692 to 078 Cum 1 111.04 1.40 Bibi Alabi Road Cum 1 55.00 1.40 Bunder and Ansari Road Cum 1 347.30 1.40 Ansari Cross Road Cum 1 347.30 1.40 Ansari Cross Road Cum 1 56.50 1.40 Ansari Road Cum 1 49.40 1.40 Ansari Cross Road Cum 1 51.80 1.40 Ansari Road Cum 1 51.80 1.40 Ansari Road Cum 1 54.00 1.40 J M 2nd Cross Road Cum 1 172.90 0.80 J M 1st Cross Road Cum 1 88.80 1.40			Cum	Т	76.80	0.80	1.71	105.01
Bibi Alabi Road			Cum	1	111.04	1.40	2.00	310.58
Bunder and Ansari Road								
MH 2296 to MH 2544 Cum 1 347.30 1.40 Ansari Cross Road	ľ	MH 1138 to MH 2495	Cum	1	55.00	1.40	2.00	154.00
Ansari Cross Road Cum 1 56.50 1.40 Ansari Road Cum 1 56.50 1.40 MH 2580 to MH 514 Cum 1 49.40 1.40 Ansari Cross Road Cum 1 51.80 1.40 Ansari Road Cum 1 54.00 1.40 J M 2nd Cross Road Cum 1 172.90 0.80 J M 1st Cross Road Cum 1 172.90 0.80 J M 1st Cross Road Cum 1 88.80 1.40 Bibi Alabi Road Cum 1 62.40 0.80 Kasa Gaddi Road Cum 1 98.80 1.40 J M 2nd Cross and GM Road Cum 1 98.80 1.40								
MH 709 to MH 710 Cum 1 56.50 1.40 Ansari Road Cum 1 49.40 1.40 Ansari Cross Road Cum 1 51.80 1.40 Ansari Road Cum 1 51.80 1.40 Ansari Road Cum 1 54.00 1.40 J M 2nd Cross Road Cum 1 172.90 0.80 J M 1st Cross Road Cum 1 172.90 0.80 J M 2nd Cross Road Cum 1 88.80 1.40 Bibi Alabi Road Cum 1 62.40 0.80 Kasa Gaddi Road Cum 1 98.80 1.40 J M 2nd Cross and GM Road Cum 1 98.80 1.40			Cum	1	347.30	1.40	2.00	970.70
Ansari Road Cum 1 49.40 1.40 Ansari Cross Road Cum 1 51.80 1.40 MH 2581 to MH 636 Cum 1 51.80 1.40 Ansari Road Cum 1 54.00 1.40 J M 2nd Cross Road Cum 1 172.90 0.80 J M 1st Cross Road Cum 1 172.90 0.80 J M 2519 TO 0 77 Cum 1 88.80 1.40 Bibi Alabi Road Cum 1 62.40 0.80 Kasa Gaddi Road Cum 1 98.80 1.40 J M 2nd Cross and GM Road Cum 1 98.80 1.40	-		Cum	1	56 50	1 40	1.71	135.59
MH 2580 to MH 514 Cum 1 49.40 1.40 Ansari Cross Road Cum 1 51.80 1.40 Ansari Road Cum 1 51.80 1.40 MH 648 TO MH 649 Cum 1 54.00 1.40 J M 2nd Cross Road Cum 1 172.90 0.80 J M 1st Cross Road Cum 1 88.80 1.40 Bibi Alabi Road Cum 1 62.40 0.80 Kasa Gaddi Road Cum 1 98.80 1.40 J M 2nd Cross and GM Road Cum 1 98.80 1.40			Cum	т	30.30	1.40	1.71	155.55
MH 2581 to MH 636 Cum 1 51.80 1.40 Ansari Road Cum 1 54.00 1.40 J M 2nd Cross Road Cum 1 172.90 0.80 J M 1st Cross Road Cum 1 172.90 0.80 J M 2519 TO 0 77 Cum 1 88.80 1.40 Bibi Alabi Road Cum 1 62.40 0.80 Kasa Gaddi Road Cum 1 98.80 1.40 J M 2nd Cross and GM Road Cum 1 98.80 1.40			Cum	1	49.40	1.40	2.00	138.32
Ansari Road Cum 1 54.00 1.40 J M 2nd Cross Road Cum 1 172.90 0.80 MH 2542 TO O 76 Cum 1 172.90 0.80 J M 1st Cross Road Cum 1 88.80 1.40 Bibi Alabi Road Cum 1 62.40 0.80 Kasa Gaddi Road Cum 1 98.80 1.40 MH 1030 to MH 2130 Cum 1 98.80 1.40 J M 2nd Cross and GM Road Cum 1 98.80 1.40	1	Ansari Cross Road						
MH 648 TO MH 649 Cum 1 54.00 1.40 J M 2nd Cross Road Cum 1 172.90 0.80 J M 1st Cross Road Cum 1 172.90 0.80 MH 2519 TO 0 77 Cum 1 88.80 1.40 Bibi Alabi Road Cum 1 62.40 0.80 Kasa Gaddi Road Cum 1 98.80 1.40 J M 2nd Cross and GM Road Cum 1 98.80 1.40	ſ	MH 2581 to MH 636	Cum	1	51.80	1.40	2.00	145.04
J M 2nd Cross Road Cum 1 172.90 0.80 J M 1st Cross Road Cum 1 188.80 1.40 Bibi Alabi Road Cum 1 88.80 1.40 MH 2123 TO MH1247 Cum 1 62.40 0.80 Kasa Gaddi Road Cum 1 98.80 1.40 J M 2nd Cross and GM Road Cum 1 98.80 1.40			_					
MH 2542 TO 0 76 Cum 1 172.90 0.80 J M 1st Cross Road Cum 1 88.80 1.40 Bibi Alabi Road Cum 1 62.40 0.80 MH 2123 TO MH1247 Cum 1 62.40 0.80 Kasa Gaddi Road Cum 1 98.80 1.40 J M 2nd Cross and GM Road Cum 1 98.80 1.40			Cum	1	54.00	1.40	2.00	151.20
J M 1st Cross Road Cum 1 88.80 1.40 Bibi Alabi Road Cum 1 62.40 0.80 MH 2123 TO MH1247 Cum 1 62.40 0.80 Kasa Gaddi Road Cum 1 98.80 1.40 J M 2nd Cross and GM Road Cum 1 98.80 1.40			Cum	1	172.00	0.80	1.41	195.15
MH 2519 TO 0 77 Cum 1 88.80 1.40 Bibi Alabi Road Cum 1 62.40 0.80 Kasa Gaddi Road Cum 1 98.80 1.40 MH 1030 to MH 2130 Cum 1 98.80 1.40 J M 2nd Cross and GM Road Cum 1 98.80 1.40	-		Cum	т	172.90	0.80	1.41	193.13
MH 2123 TO MH1247 Cum 1 62.40 0.80 Kasa Gaddi Road Cum 1 98.80 1.40 MH 1030 to MH 2130 Cum 1 98.80 1.40 J M 2nd Cross and GM Road Cum 1 0 0			Cum	1	88.80	1.40	1.96	243.51
Kasa Gaddi Road Cum 1 98.80 1.40 J M 2nd Cross and GM Road Image: Company of the compan	E	Bibi Alabi Road						
MH 1030 to MH 2130 Cum 1 98.80 1.40 J M 2nd Cross and GM Road	ſ	MH 2123 TO MH1247	Cum	1	62.40	0.80	1.51	75.17
J M 2nd Cross and GM Road	-				22.22	1.10	2.22	070.00
			Cum	1	98.80	1.40	2.00	276.64
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_	MH 2130 to MH 2567	Cum	1	152.90	1.40	1.87	400.56
GM Road	-+		Cuili	-	132.30	1.40	1.07	+00.50
MH 2589 to MH 2568 Cum 1 27.60 1.40			Cum	1	27.60	1.40	2.00	77.28
J M 2nd Cross Road	J	I M 2nd Cross Road						
MH 2590 to MH 81 Cum 1 22.00 0.80			Cum	1	22.00	0.80	1.30	22.88
J M 2nd Cross Road			C .		22.55	0.00	4.00	2
MH 170 to MH 26 Cum 1 22.20 0.80 Urdu School Road Image: Company of the			Cum	1	22.20	0.80	1.39	24.69
MH 705 to MH 2133 Cum 1 59.00 0.80			Cum	1	59 00	በ ጰበ	1.51	71.19
MPT Cross Road			Carri	-	33.00	0.00	1.01	, 1.13
MH 1074 to MH 2546 Cum 1 115.50 0.80			Cum	1	115.50	0.80	1.45	134.07
JM 5th Cross Road	J	IM 5th Cross Road						
MH 2350 to O 73 Cum 1 80.70 0.80			Cum	1	80.70	0.80	1.51	97.49
Kasa Gadi Cross Road	ŀ	Kasa Gadi Cross Road						

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH 50 to MH 2128	Cum	1	16.20	1.40	2.00	45.36
	MPT Cross Road MH 957 to MH 958	Cum	1	96.50	1 40	1.00	241 10
	Azizudheen Road	Cum	1	86.50	1.40	1.99	241.19
	MH 2575 to MH 2543	Cum	1	207.70	0.80	1.66	275.56
	JM 5th Cross and Kandathpalli west Road						
	MH 2544 to MH 2571	Cum	1	169.50	1.40	2.00	474.60
	J M 5th Cross Road		4	22.70	4.40	4.06	05.27
	MH 398 to MH 399 Kandathpalli West Road	Cum	1	32.70	1.40	1.86	85.27
	MH 599 to MH 600	Cum	1	47.70	1.40	1.93	128.55
	Ansari Road						
	MH 402 to MH 2326	Cum	1	36.00	0.80	1.21	34.78
	Kandathpalli West Road	Corre	4	126.00	4.40	1.67	205.02
	MH 1211 to MH 2320 Kandathpalli West Cross Road	Cum	1	126.90	1.40	1.67	295.83
	MH 2576 to MH 2466	Cum	1	23.60	0.80	1.52	28.70
	Kandathpalli West Cross Road						
	MH 2569 to MH 917	Cum	1	80.70	1.40	2.00	225.96
	Kandathpalli West Road	_	_			_	
	MH 1624 to MH 917 Kandathpalli West Road	Cum	1	110.80	1.40	2.00	310.24
	MH 917 to MH 773	Cum	1	38.60	1.45	2.00	111.94
	Lower Carstreet and Bhatkar Bazar Road	Cum		30.00	1.43	2.00	111.54
	MH 2398 to MH 1619	Cum	1	316.90	1.40	1.67	742.58
	Bhatkar Bazar Cross Road						
	MH 287 to MH 288	Cum	1	40.50	0.80	1.64	53.14
	Shree Kalikamba Vinayaka Street MH 2522 to MH 2524	Cum	1	79.10	0.80	1.64	103.88
	Cross Road	Cuiii	тт	79.10	0.80	1.04	103.86
	MH 624 to MH 625	Cum	1	52.20	0.80	1.44	60.06
	Cross Road						
	MH 40 to MH 2408	Cum	1	15.40	0.80	1.43	17.56
	Cross Road	Cours	4	20.00	0.00	4.25	24.20
	MH 277 to MH 278	Cum	1	29.00	0.80	1.35	31.20
В	Zone 3 Part 1						
	KSR Cross Road						
	MH-904 to O-30	Cum	1	0.00	1.40	1.89	0.00
	KSR Cross Road	Cura	1	0.00	1 40	1.65	0.00
	MH-1891 to O-11 KSR Cross Road	Cum	1	0.00	1.40	1.65	0.00
	MH-728 to MH-1891	Cum	1	0.00	1.40	1.43	0.00
	Balmatta Cross Road		_				
	MH-1027 to MH-1895	Cum	1	0.00	1.40	1.67	0.00
	KSR Cross Road			2.22			
	MH-666 to O-40 KSR Cross Road	Cum	1	0.00	1.40	1.37	0.00
	MH-369 to O-43	Cum	1	0.00	1.40	2.00	0.00
	KSR Cross Road			0.00	21.10		
	MH-1205 to O-37	Cum	1	0.00	1.40	1.97	0.00
	KSR Cross Road						
	MH-155 to O-38	Cum	1	23.80	0.80	1.55	29.51
	Court Cross Road MH-1207 to O-39	Cum	1	200.70	1.40	1.80	504.63
	Court Cross Road	Cum		200.70	1.40	1.60	304.03
	MH-645 to MH-644	Cum	1	46.00	1.40	1.78	114.79
	St Aloysius College Road						
	MH-1003 to O-22	Cum	1	0.00	1.40	1.36	0.00
	St Aloysius College Road MH-1469 to O-21	Cum	1	0.00	1 40	1 22	0.00
	MH-1469 to O-21 St Aloysius College Road and Court Road	Cum	1	0.00	1.40	1.33	0.00
	MH-2491 to O-34	Cum	1	0.00	1.40	1.92	0.00
	Court Road			- 23			
	MH-1136 to MH-1537	Cum	1	0.00	1.40	2.00	0.00
	Court Cross Road					. —	<u> </u>
	MH-826 to MH-827	Cum	1	0.00	1.40	1.76	0.00

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	Court Road	Cure	1	0.00	1 40	1.04	0.00
	MH-1498 to O-23 KRR Cross Road	Cum	1	0.00	1.40	1.94	0.00
	MH-321 to MH-2454	Cum	1	0.00	1.40	1.58	0.00
	KRR Cross Road						
	MH-1065 to O-20	Cum	1	0.00	1.40	1.90	0.00
	KRR Cross Road	Cum	1	0.00	1.40	1.56	0.00
	MH-1096 to O-18 KRR Cross Road	Cum	1	0.00	1.40	1.50	0.00
	MH-533 to O-19	Cum	1	0.00	1.40	1.33	0.00
	Bunts Hostel Cross Road						
	MH-353 to O-17	Cum	1	0.00	1.40	2.00	0.00
	Bunts Hostel Cross Road MH- 668 to O-15	Cum	1	0.00	1.40	2.00	0.00
	Bunts Hostel Cross Road	Cuili		0.00	1.40	2.00	0.00
	MH-588 to O-16	Cum	1	0.00	1.40	1.89	0.00
	Bunts Hostel Cross Road						
	MH-928 to O-14	Cum	1	99.00	1.40	1.93	267.50
	Bridge Road	Cum	1	285.30	0.80	1.62	370.05
	MH-1264 to O-35 Arya Samaj Road	Culli	1	203.30	0.80	1.02	370.05
	MH-1462 to O-12	Cum	1	543.10	0.80	1.75	760.77
	Arya Samaj Cross Road						
	MH-2498 to O-45	Cum	1	76.20	1.40	1.91	203.76
	Arya Samaj Cross Road MH-1390 to O-46	Cum	1	46.00	0.80	1.67	61.46
	Kadri Cross Road	Cum	1	46.00	0.80	1.07	01.40
	MH-1107 to O-13	Cum	1	131.80	1.40	1.97	364.27
	KRR Cross Road						
	MH-813 to MH-1416	Cum	1	84.00	1.40	1.88	221.48
		-					14615 24
A	Zone 4 Part 2						14615.34
	0 to 2 mtr Depth (Manhole)						
	Old Port Road						
	MH 2551 to O92	Cum	2	2.00	2.00	1.46	11.64
	Azizudheen Road	Cum	2	2.00	2.00	1 16	11.66
	MH 2550 to MH 2565 Azizudheen Road	Cum		2.00	2.00	1.46	11.66
	MH 646 to MH 2565	Cum	3	2.00	2.00	1.69	20.26
	Azizudheen Road						
	MH 315 to MH 2247	Cum	2	2.00	2.00	1.94	15.50
	Azizudheen Road	Cum	-	2.00	2.00	1 71	41.02
	MH 2239 to MH 2565 Azizudheen Road	Cum	6	2.00	2.00	1.71	41.02
	MH 435 to MH 2243	Cum	2	2.00	2.00	1.68	13.46
	Azizudheen Road						
	MH 2565 to MH 379	Cum	4	2.00	2.00	1.73	27.74
	Bunder Road and old Port Road	Cum	1.0	2.00	2.00	1 77	112.26
	MH 2548 to MH 2296 Azizudheen Road	Cum	16	2.00	2.00	1.77	113.36
	MH 2209 to MH 2521	Cum	3	2.00	2.00	1.80	21.62
	Old Port Road						
	MH 2553 to MH 2558	Cum	3	2.00	2.00	1.89	22.62
	Cross Road	6		2.00	2.00	4.72	24.20
	MH 930 to MH 2563 Bunder Cross Road	Cum	5	2.00	2.00	1.72	34.39
	MH 2520 to MH 2292	Cum	3	2.00	2.00	1.66	19.97
	Cartstreet Road						
	MH 1750 to MH 2525	Cum	8	2.00	2.00	1.87	59.74
	Lower Carstreet Road						
	MH 517 to MH 2508 Lower Carstreet Road	Cum	11	2.00	2.00	1.82	79.88
	MH 269 to MH 270	Cum	2	2.00	2.00	1.80	14.36
	Lower Carstreet Road		-	2.00		2.00	
	MH 1600 to MH 1624	Cum	17	2.00	2.00	1.83	124.42
	Lower Carstreet Road						

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH 1763 to MH 2539	Cum	2	2.00	2.00	1.63	13.02
	Basavana Gudi Street and Kandathpalli Road	Court	4.4	2.00	2.00	4.70	00.70
	MH 1194 to MH 1610 Cross and Mochigali Road	Cum	14	2.00	2.00	1.78	99.70
	MH 715 to MH 1026	Cum	8	2.00	2.00	2.00	64.00
	Bibi Alabi Road						
	MH 2259 to MH 2495	Cum	3	2.00	2.00	1.80	21.58
	Bibi Alabi Road MH 692 to O78	Cum	7	2.00	2.00	2.00	56.00
	Bibi Alabi Road		,	2.00	2.00		30.00
	MH 1138 to MH 2495	Cum	3	2.00	2.00	2.00	24.00
	Bunder and Ansari Road MH 2296 to MH 2544	Cum	1.4	2.10	2.10	2.00	122.40
	Ansari Cross Road	Cum	14	2.10	2.10	2.00	123.48
	MH 709 to MH 710	Cum	3	2.00	2.00	1.92	23.07
	Ansari Road						
	MH 2580 to MH 514 Ansari Cross Road	Cum	2	2.30	2.30	2.00	21.16
	MH 2581 to MH 636	Cum	2	2.00	2.00	2.00	16.00
	Ansari Road		_				
	MH 648 TO MH 649	Cum	2	2.30	2.30	2.00	21.16
	J M 2nd Cross Road	C	-	2.00	3.00	4.00	22.22
	MH 2542 TO O 76 J M 1st Cross Road	Cum	5	2.00	2.00	1.66	33.22
	MH 2519 TO O 77	Cum	3	2.00	2.00	1.83	22.01
	Bibi Alabi Road						
	MH 2123 TO MH1247	Cum	3	2.00	2.00	1.75	20.94
	Kasa Gaddi Road MH 1030 to MH 2130	Cum	4	2.00	2.00	2.00	32.00
	J M 2nd Cross and GM Road	Cuiii	4	2.00	2.00	2.00	32.00
	MH 2130 to MH 2567	Cum	7	2.00	2.00	1.97	55.07
	GM Road						
	MH 2589 to MH 2568 J M 2nd Cross Road	Cum	1	2.00	2.00	2.00	8.00
	MH 2590 to MH 81	Cum	1	2.00	2.00	1.55	6.20
	J M 2nd Cross Road						
	MH 170 to MH 26	Cum	1	2.00	2.00	1.64	6.56
	MH 705 to MH 2133	Cum	3	2.00	2.00	1.76	21 10
	MPT Cross Road	Cum	3	2.00	2.00	1.70	21.10
	MH 1074 to MH 2546	Cum	5	2.00	2.00	1.69	33.70
	JM 5th Cross Road						
	MH 2350 to 0 73	Cum	2	2.00	2.00	1.76	14.04
	MH 50 to MH 2128	Cum	1	2.00	2.00	2.00	8.00
	MPT Cross Road	Cam		2.00	2.00	2.00	0.00
	MH 957 to MH 958	Cum	3	2.00	2.00	2.00	24.00
	Azizudheen Road	Cura	7	2.00	2.00	1.02	F1 07
	MH 2575 to MH 2543 JM 5th Cross and Kandathpalli west Road	Cum	7	2.00	2.00	1.82	51.07
	MH 2544 to MH 2571	Cum	6	2.30	2.30	2.00	63.48
	J M 5th Cross Road						
	MH 398 to MH 399	Cum	2	2.00	2.00	1.99	15.90
	Kandathpalli West Road MH 599 to MH 600	Cum	2	2.00	2.00	1.80	14.40
	Ansari Road	Cum		2.00	2.00	1.00	14.40
	MH 402 to MH 2326	Cum	2	2.00	2.00	1.47	11.74
	Kandathpalli West Road			-			
	MH 1211 to MH 2320 Kandathpalli West Cross Road	Cum	8	2.00	2.00	1.84	58.99
	MH 2576 to MH 2466	Cum	1	2.00	2.00	1.77	7.08
	Kandathpalli West Cross Road	33					
	MH 2569 to MH 917	Cum	3	2.10	2.10	2.00	26.46
	Kandathpalli West Road	Cure	5	2 1 5	2 4 5	2.00	46.22
	MH 1624 to MH 917 Kandathpalli West Road	Cum	5	2.15	2.15	2.00	46.23
	MH 917 to MH 773	Cum	2	2.30	2.30	2.00	21.16
	MH 917 to MH 773	Cum	2	2.30	2.30	2.00	

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	Lower Carstreet and Bhatkar Bazar Road	Cum	1.4	2.00	2.00	1.04	102.20
	MH 2398 to MH 1619 Bhatkar Bazar Cross Road	Cum	14	2.00	2.00	1.84	103.28
	MH 287 to MH 288	Cum	2	2.00	2.00	1.89	15.12
	Shree Kalikamba Vinayaka Street						
	MH 2522 to MH 2524 Cross Road	Cum	3	2.00	2.00	1.89	22.70
	MH 624 to MH 625	Cum	3	2.00	2.00	1.69	20.26
	Cross Road						
	MH 40 to MH 2408	Cum	1	2.00	2.00	1.68	6.70
	Cross Road MH 277 to MH 278	Cum	1	2.00	2.00	1.60	6.38
	WIII 277 to WIII 270	Carri		2.00	2.00	1.00	0.50
	Zone 3 Part 1						
	KSR Cross Road MH-904 to O-30	Cum	0	2.00	2.00	1.85	0.00
	KSR Cross Road	Cuiii	0	2.00	2.00	1.65	0.00
	MH-1891 to O-11	Cum	0	2.00	2.00	1.77	0.00
	KSR Cross Road						
	MH-728 to MH-1891 Balmatta Cross Road	Cum	0	2.00	2.00	1.65	0.00
	MH-1027 to MH-1895	Cum	0	2.00	2.00	1.83	0.00
	KSR Cross Road						
	MH-666 to O-40	Cum	0	2.00	2.00	1.62	0.00
	KSR Cross Road MH-369 to O-43	Cum	0	2.00	2.00	2.00	0.00
	KSR Cross Road	Carr		2.00	2.00	2.00	0.00
	MH-1205 to O-37	Cum	0	2.30	2.30	1.89	0.00
	KSR Cross Road	Cum	1	2.00	2.00	1.00	7.20
	MH-155 to O-38 Court Cross Road	Cum	1	2.00	2.00	1.80	7.20
	MH-1207 to O-39	Cum	9	2.00	2.00	1.89	68.18
	Court Cross Road						
	MH-645 to MH-644 St Alevsius College Bood	Cum	2	2.15	2.15	1.91	17.63
	St Aloysius College Road MH-1003 to O-22	Cum	0	2.00	2.00	1.64	0.00
	St Aloysius College Road		-				
	MH-1469 to O-21	Cum	0	2.00	2.00	1.58	0.00
	St Aloysius College Road and Court Road MH-2491 to O-34	Cum	0	2.00	2.00	1.92	0.00
	Court Road	Cuiii		2.00	2.00	1.52	0.00
	MH-1136 to MH-1537	Cum	0	2.30	2.30	2.00	0.00
	Court Cross Road	Course	0	2.00	2.00	1.02	0.00
	MH-826 to MH-827 Court Road	Cum	0	2.00	2.00	1.93	0.00
	MH-1498 to O-23	Cum	0	2.00	2.00	1.92	0.00
	KRR Cross Road	_					
	MH-321 to MH-2454 KRR Cross Road	Cum	0	2.00	2.00	1.75	0.00
	MH-1065 to O-20	Cum	0	2.00	2.00	1.98	0.00
	KRR Cross Road						
	MH-1096 to O-18	Cum	0	2.00	2.00	1.72	0.00
	KRR Cross Road MH-533 to O-19	Cum	0	2.00	2.00	1.58	0.00
	Bunts Hostel Cross Road	Cuiii	<u> </u>	2.00	2.00	1.50	0.00
	MH-353 to O-17	Cum	0	2.30	2.30	2.00	0.00
	Bunts Hostel Cross Road	C. 12.22		2.22	2.22	2.00	0.00
	MH- 668 to O-15 Bunts Hostel Cross Road	Cum	0	2.30	2.30	2.00	0.00
	MH-588 to O-16	Cum	0	2.00	2.00	1.80	0.00
	Bunts Hostel Cross Road						
	MH-928 to O-14	Cum	4	2.10	2.10	1.99	35.15
	Bridge Road MH-1264 to O-35	Cum	13	2.00	2.00	1.84	95.52
	Arya Samaj Road						
	MH-1462 to O-12	Cum	22	2.30	2.30	1.91	221.78
	Arya Samaj Cross Road						

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH-2498 to O-45	Cum	3	2.30	2.30	1.88	29.76
	Arya Samaj Cross Road	6	2	2.20	2.20	4.70	40.04
	MH-1390 to O-46 Kadri Cross Road	Cum	2	2.30	2.30	1.79	18.94
	MH-1107 to O-13	Cum	6	2.10	2.10	2.00	52.92
	KRR Cross Road						
	MH-813 to MH-1416	Cum	3	2.00	2.00	1.72	20.60
							2458.25
	Household Connection						
	For Household Connection- Zone 4 Part 2 (MH = 206Nos, L=5m X 4	Cum	206	20.00	0.60	0.9	2224.80
	connections in each manhole)-Road width >3m						
	For Household Connection- Zone 4 Part 2 (MH = 44Nos, L=5m X 4 connections in each manhole)-Road width <3m	Cum	44	20.00	0.60	0.9	475.20
	For Household Connection- Zone 3 Part 1 (MH = 57Nos, L=5m X 4	Cum	57	20.00	0.60	0.0	615.60
	connections in each manhole)-Road width >3m	Cum	57	20.00	0.60	0.9	015.00
	For Household Connection- Zone 3 Part 1 (MH = 8Nos, L=5m X 4	Cum	8	20.00	0.60	0.9	86.40
	connections in each manhole)-Road width <3m Total Qty	Cum					20475.59
	Total trenchline Qty	Cum					18017.34
	80% of Total Qty	Cum					14413.87
5	Earthwork excavation for pipeline trenches (Except building work) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever neccessary as directed in the following Strata KUWSDB SR 15-16, SI No 1-i-(b), Pg No 5						
1) 1	do in all soils mixed mixed with boulders of 30 cms size upto an exclusive of disintegrated rock D182						
	Zone 4 Part 2						
	2 to 4 mtr Depth Old Port Road						
	MH 2551 to O92	Cum	1	52.80	0.80	0.00	0.00
	Azizudheen Road						
	MH 2550 to MH 2565	Cum	1	56.50	0.80	0.00	0.00
	Azizudheen Road MH 646 to MH 2565	Cum	1	F2 10	0.00	0.00	0.00
	Azizudheen Road	Cum	1	52.10	0.80	0.00	0.00
	MH 315 to MH 2247	Cum	1	37.60	0.80	0.37	10.98
	Azizudheen Road						
	MH 2239 to MH 2565	Cum	1	146.00	0.80	0.00	0.00
	Azizudheen Road MH 435 to MH 2243	Cum	1	34.10	0.80	0.00	0.00
	Azizudheen Road	Cuiii		31.10	0.00	0.00	0.00
	MH 2565 to MH 379	Cum	1	69.00	0.80	0.18	9.94
	Bunder Road and old Port Road	Cum	1	200.20	0.00	0.00	0.00
	MH 2548 to MH 2296 Azizudheen Road	Cum	1	390.30	0.80	0.00	0.00
	MH 2209 to MH 2521	Cum	1	85.90	0.80	0.00	0.00
	Old Port Road						
	MH 2553 to MH 2558	Cum	1	87.30	0.80	0.00	0.00
	Cross Road MH 930 to MH 2563	Cum	1	79.60	0.80	0.00	0.00
	Bunder Cross Road		_	73.00	0.00	0.00	0.00
	MH 2520 to MH 2292	Cum	1	107.20	0.80	0.00	0.00
	Cartstreet Road	C	4	407.40	0.00	0.40	20.00
	MH 1750 to MH 2525 Lower Carstreet Road	Cum	1	197.40	0.80	0.19	30.00
	MH 517 to MH 2508	Cum	1	207.70	0.80	0.00	0.00
	Lower Carstreet Road						
	MH 269 to MH 270	Cum	1	26.60	0.80	0.00	0.00
	MH 1600 to MH 1624	Cum	1	422.00	0.80	0.85	287.44
	Lower Carstreet Road	Caili		722.00	0.80	0.00	207.45
	MH 1763 to MH 2539	Cum	1	48.60	0.80	0.00	0.00
	Basavana Gudi Street and Kandathpalli Road						

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH 1194 to MH 1610	Cum	1	362.00	0.80	0.52	149.51
	Cross and Mochigali Road	6	4	454.40	0.00	0.22	26.27
	MH 715 to MH 1026 Bibi Alabi Road	Cum	1	151.40	0.80	0.22	26.27
	MH 2259 to MH 2495	Cum	1	76.80	0.80	0.00	0.00
	Bibi Alabi Road						
-	MH 692 to 078	Cum	1	111.04	0.80	0.40	35.61
	MH 1138 to MH 2495	Cum	1	55.00	0.80	0.85	37.52
	Bunder and Ansari Road						
	MH 2296 to MH 2544	Cum	1	347.30	0.80	0.85	236.91
	Ansari Cross Road MH 709 to MH 710	Cum	1	56.50	0.80	0.69	30.96
	Ansari Road	Cuili	т	30.30	0.80	0.09	30.90
	MH 2580 to MH 514	Cum	1	49.40	0.80	1.27	49.99
	Ansari Cross Road						
	MH 2581 to MH 636 Ansari Road	Cum	1	51.80	0.80	0.70	28.80
	MH 648 TO MH 649	Cum	1	54.00	0.80	1.59	68.47
	J M 2nd Cross Road						
	MH 2542 TO O 76	Cum	1	172.90	0.80	0.00	0.00
	J M 1st Cross Road MH 2519 TO O 77	Cum	1	88.80	0.80	0.78	55.06
	Bibi Alabi Road	Cuili	1	00.00	0.80	0.78	33.00
	MH 2123 TO MH1247	Cum	1	62.40	0.80	0.00	0.00
	Kasa Gaddi Road	_	_				
	MH 1030 to MH 2130 J M 2nd Cross and GM Road	Cum	1	98.80	0.80	0.51	40.61
	MH 2130 to MH 2567	Cum	1	152.90	0.80	0.31	38.38
	GM Road						
	MH 2589 to MH 2568	Cum	1	27.60	0.80	0.17	3.75
	J M 2nd Cross Road MH 2590 to MH 81	Cum	1	22.00	0.80	0.00	0.00
	J M 2nd Cross Road	Cuili	т	22.00	0.80	0.00	0.00
	MH 170 to MH 26	Cum	1	22.20	0.80	0.00	0.00
	Urdu School Road						
	MH 705 to MH 2133 MPT Cross Road	Cum	1	59.00	0.80	0.00	0.00
	MH 1074 to MH 2546	Cum	1	115.50	0.80	0.00	0.00
	JM 5th Cross Road						
	MH 2350 to O 73	Cum	1	80.70	0.80	0.00	0.00
	Kasa Gadi Cross Road MH 50 to MH 2128	Cum	1	16.20	0.80	0.54	6.93
	MPT Cross Road	Cuiii	т	10.20	0.80	0.54	0.93
	MH 957 to MH 958	Cum	1	86.50	0.80	0.05	3.11
	Azizudheen Road						
	MH 2575 to MH 2543 JM 5th Cross and Kandathpalli west Road	Cum	1	207.70	0.80	0.00	0.00
	MH 2544 to MH 2571	Cum	1	169.50	0.80	1.94	263.23
	J M 5th Cross Road						
	MH 398 to MH 399	Cum	1	32.70	0.80	1.29	33.75
	MH 599 to MH 600	Cum	1	47.70	0.80	0.87	33.01
	Ansari Road	Cuili	тт	47.70	0.80	0.87	33.01
	MH 402 to MH 2326	Cum	1	36.00	0.80	0.00	0.00
	Kandathpalli West Road						
	MH 1211 to MH 2320 Kandathnalli West, Cross Boad	Cum	1	126.90	0.80	0.59	59.90
	MH 2576 to MH 2466	Cum	1	23.60	0.80	0.00	0.00
	Kandathpalli West Cross Road						
	MH 2569 to MH 917	Cum	1	80.70	0.80	0.99	64.02
	Kandathpalli West Road	Cura	1	110.00	0.00	1 55	127 12
	MH 1624 to MH 917 Kandathpalli West Road	Cum	1	110.80	0.80	1.55	137.13
	MH 917 to MH 773	Cum	1	38.60	0.85	2.11	69.23
	Lower Carstreet and Bhatkar Bazar Road						
	MH 2524 to MH 1619	Cum	1	316.90	0.80	0.82	207.89

	Bhatkar Bazar Cross Road			LENGTH	BREADTH	DEPTH	QUANTITY
-	MH 287 to MH 288	Cum	1	40.50	0.80	0.00	0.00
	Shree Kalikamba Vinayaka Street	Carri		10.30	0.00	0.00	0.00
	MH 2522 to MH 2524	Cum	1	79.10	0.80	0.00	0.00
	Cross Road	_					
	MH 624 to MH 625	Cum	1	52.20	0.80	0.00	0.00
	Cross Road MH 40 to MH 2408	Cum	1	15.40	0.80	0.00	0.00
	Cross Road	Cum		13.40	0.00	0.00	0.00
	MH 277 to MH 278	Cum	1	29.00	0.80	0.00	0.00
В	Zone 3 Part 1						
	KSR Cross Road						
	MH-904 to O-30	Cum	1	0.00	0.80	0.96	0.00
	KSR Cross Road						
	MH-1891 to O-11	Cum	1	0.00	0.80	0.00	0.00
	KSR Cross Road MH-728 to MH-1891	Cum	1	0.00	0.80	0.00	0.00
	Balmatta Cross Road	Cuiii	тт	0.00	0.80	0.00	0.00
	MH-1027 to MH-1895	Cum	1	0.00	0.80	0.00	0.00
	KSR Cross Road						
	MH-666 to O-40	Cum	1	0.00	0.80	0.00	0.00
	KSR Cross Road						
	MH-369 to O-43	Cum	1	0.00	0.80	0.57	0.00
	KSR Cross Road	Charac		0.00	0.00	4 75	0.00
	MH-1205 to O-37 KSR Cross Road	Cum	1	0.00	0.80	1.75	0.00
	MH-155 to O-38	Cum	1	23.80	0.80	0.00	0.00
	Court Cross Road	Cum		23.00	0.00	0.00	0.00
	MH-1207 to O-39	Cum	1	200.70	0.80	0.34	54.59
	Court Cross Road						
	MH-645 to MH-644	Cum	1	46.00	0.80	0.56	20.61
	St Aloysius College Road						
	MH-1003 to O-22	Cum	1	0.00	0.80	0.00	0.00
	St Aloysius College Road MH-1469 to O-21	Cum	1	0.00	0.80	0.00	0.00
	St Aloysius College Road and Court Road	Cuiii	Т	0.00	0.80	0.00	0.00
	MH-2491 to O-34	Cum	1	0.00	0.80	0.89	0.00
	Court Road						
	MH-1136 to MH-1537	Cum	1	0.00	0.80	0.73	0.00
	Court Cross Road						
	MH-826 to MH-827	Cum	1	0.00	0.80	0.81	0.00
	Court Road MH-1498 to O-23	Cure	1	0.00	0.00	0.00	0.00
	KRR Cross Road	Cum	1	0.00	0.80	0.88	0.00
	MH-321 to MH-2454	Cum	1	0.00	0.80	0.00	0.00
	KRR Cross Road						
	MH-1065 to O-20	Cum	1	0.00	0.80	0.26	0.00
	KRR Cross Road						
	MH-1096 to O-18	Cum	1	0.00	0.80	0.00	0.00
	KRR Cross Road	C.	4	0.00	0.00	0.00	0.00
	MH-533 to O-19 Bunts Hostel Cross Road	Cum	1	0.00	0.80	0.00	0.00
	MH-353 to O-17	Cum	1	0.00	0.80	0.79	0.00
	Bunts Hostel Cross Road	Carri	_	5.50	0.00	5.75	0.00
	MH- 668 to O-15	Cum	1	0.00	0.80	1.09	0.00
	Bunts Hostel Cross Road						
	MH-588 to O-16	Cum	1	0.00	0.80	0.00	0.00
	Bunts Hostel Cross Road	_	-		_	_	
	MH-928 to O-14	Cum	1	99.00	0.80	1.13	89.10
	Bridge Road MH-1264 to O-35	Cum	1	285.30	0.80	0.00	0.00
	Arya Samaj Road	Culli	1	203.30	0.80	0.00	0.00
	MH-1462 to O-12	Cum	1	543.10	0.80	0.25	106.45
	Arya Samaj Cross Road		-	5.10	5.55	3.23	
	MH-2498 to O-45	Cum	1	76.20	0.80	0.14	8.84
	Arya Samaj Cross Road						

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH-1390 to O-46	Cum	1	46.00	0.80	0.00	0.00
	Kadri Cross Road		4	124.00	0.00	0.70	02.40
	MH-1107 to O-13 KRR Cross Road	Cum	1	131.80	0.80	0.79	83.40
	MH-813 to MH-1416	Cum	1	84.00	0.80	0.44	29.57
A	Zone 4 Part 2						2410.95
b	2 to 4 mtr Depth (Manhole)						
	Old Port Road						
	MH 2551 to 092	Cum	2	2.00	2.00	0.00	0.00
	Azizudheen Road MH 2550 to MH 2565	Cum	2	2.00	2.00	0.00	0.00
	Azizudheen Road	Cam		2.00	2.00	0.00	0.00
	MH 646 to MH 2565	Cum	3	2.00	2.00	0.00	0.00
	Azizudheen Road	Civina	2	2.00	2.00	0.62	4.02
	MH 315 to MH 2247 Azizudheen Road	Cum	2	2.00	2.00	0.62	4.92
	MH 2239 to MH 2565	Cum	6	2.00	2.00	0.00	0.00
	Azizudheen Road						
	MH 435 to MH 2243	Cum	2	2.00	2.00	0.00	0.00
	Azizudheen Road MH 2565 to MH 379	Cum	4	2.00	2.00	0.43	6.88
	Bunder Road and old Port Road	Guiii	<u> </u>	2.00	2.00	0.13	0.00
	MH 2548 to MH 2296	Cum	16	2.00	2.00	0.07	4.72
	Azizudheen Road	Course	2	2.00	2.00	0.03	0.26
	MH 2209 to MH 2521 Old Port Road	Cum	3	2.00	2.00	0.03	0.36
	MH 2553 to MH 2558	Cum	3	2.00	2.00	0.14	1.62
	Cross Road						
	MH 930 to MH 2563	Cum	5	2.00	2.00	0.00	0.00
	Bunder Cross Road MH 2520 to MH 2292	Cum	3	2.00	2.00	0.00	0.00
	Cartstreet Road	Guiii		2.00	2.00	0.00	0.00
	MH 1750 to MH 2525	Cum	8	2.00	2.00	0.30	9.49
	Lower Carstreet Road	Cum	11	2.00	2.00	0.00	0.00
	MH 517 to MH 2508 Lower Carstreet Road	Cum	11	2.00	2.00	0.00	0.00
	MH 269 to MH 270	Cum	2	2.00	2.00	0.00	0.00
	Lower Carstreet Road						
	MH 1600 to MH 1624	Cum	17	2.00	2.00	1.10	74.90
	Lower Carstreet Road MH 1763 to MH 2539	Cum	2	2.00	2.00	0.00	0.00
	Basavana Gudi Street and Kandathpalli Road		_				0.00
	MH 1194 to MH 1610	Cum	14	2.00	2.00	0.63	35.06
	Cross and Mochigali Road MH 715 to MH 1026	Cum	8	2.00	2.00	0.47	14.94
	Bibi Alabi Road	Cuili	0	2.00	2.00	0.47	14.94
	MH 2259 to MH 2495	Cum	3	2.00	2.00	0.23	2.76
	Bibi Alabi Road						
	MH 692 to 078	Cum	7	2.00	2.00	0.59	16.56
	MH 1138 to MH 2495	Cum	3	2.00	2.00	1.04	12.46
	Bunder and Ansari Road	- Guiii		2.00	2.00		22:10
	MH 2296 to MH 2544	Cum	14	2.10	2.10	1.04	64.10
	Ansari Cross Road MH 709 to MH 710	Cum	3	2.00	2.00	0.04	11 22
	Ansari Road	Cum	3	2.00	2.00	0.94	11.22
	MH 2580 to MH 514	Cum	2	2.30	2.30	1.52	16.03
	Ansari Cross Road						
	MH 2581 to MH 636	Cum	2	2.00	2.00	0.95	7.56
	Ansari Road MH 648 TO MH 649	Cum	2	2.30	2.30	1.84	19.41
	J M 2nd Cross Road	Cam		2.50	2.50	1.04	13.71
	MH 2542 TO O 76	Cum	5	2.00	2.00	0.00	0.00
	J M 1st Cross Road	2		2.00	2.00	4.00	42.22
	MH 2519 TO O 77	Cum	3	2.00	2.00	1.03	12.30

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	Bibi Alabi Road						
	MH 2123 TO MH1247	Cum	3	2.00	2.00	0.00	0.00
	Kasa Gaddi Road						
	MH 1030 to MH 2130	Cum	4	2.00	2.00	0.76	12.22
	J M 2nd Cross and GM Road						
	MH 2130 to MH 2567	Cum	7	2.00	2.00	0.42	11.62
	GM Road						
	MH 2589 to MH 2568	Cum	1	2.00	2.00	0.42	1.68
	J M 2nd Cross Road						
	MH 2590 to MH 81	Cum	1	2.00	2.00	0.00	0.00
	J M 2nd Cross Road						
	MH 170 to MH 26	Cum	1	2.00	2.00	0.00	0.00
	Urdu School Road						
	MH 705 to MH 2133	Cum	3	2.00	2.00	0.00	0.00
	MPT Cross Road						
	MH 1074 to MH 2546	Cum	5	2.00	2.00	0.00	0.00
	JM 5th Cross Road						
	MH 2350 to O 73	Cum	2	2.00	2.00	0.00	0.00
	Kasa Gadi Cross Road	-	-	_	_		_
	MH 50 to MH 2128	Cum	1	2.00	2.00	0.79	3.14
	MPT Cross Road	_	_				
	MH 957 to MH 958	Cum	3	2.00	2.00	0.27	3.26
	Azizudheen Road	_	_				
	MH 2575 to MH 2543	Cum	7	2.00	2.00	0.03	0.75
	JM 5th Cross and Kandathpalli west Road			2.22	2.22		
	MH 2544 to MH 2571	Cum	6	2.30	2.30	1.96	62.26
	J M 5th Cross Road		_				
	MH 398 to MH 399	Cum	2	2.00	2.00	0.54	4.32
	Kandathpalli West Road		_				
	MH 599 to MH 600	Cum	2	2.00	2.00	1.12	8.92
	Ansari Road			2.22	2.00		0.00
	MH 402 to MH 2326	Cum	2	2.00	2.00	0.00	0.00
	Kandathpalli West Road	6		2.00	2.00	0.04	26.00
	MH 1211 to MH 2320	Cum	8	2.00	2.00	0.84	26.88
	Kandathpalli West Cross Road	C: :::::	1	2.00	2.00	0.00	0.00
	MH 2576 to MH 2466	Cum	1	2.00	2.00	0.00	0.00
	Kandathpalli West Cross Road	Cum	2	2.10	2.10	1 24	16.42
	MH 2569 to MH 917	Cum	3	2.10	2.10	1.24	16.43
	MH 1624 to MH 917	Cum	-	2.15	2.15	1 00	41.52
		Cum	5	2.15	2.15	1.80	41.53
	MH 917 to MH 773	Cum	2	2.20	2.20	2.26	24.07
	Lower Carstreet and Bhatkar Bazar Road	Cum	2	2.30	2.30	2.36	24.97
	MH 2398 to MH 1619	Cum	14	2.00	2.00	0.30	16.73
	Bhatkar Bazar Cross Road	Cuili	14	2.00	2.00	0.30	10.75
	MH 287 to MH 288	Cum	2	2.00	2.00	0.00	0.00
		Cum	2	2.00	2.00	0.00	0.00
	Shree Kalikamba Vinayaka Street	Cum	2	2.00	2.00	0.00	0.00
	MH 2522 to MH 2524 Cross Road	Cum	3	2.00	2.00	0.00	0.00
		Cum	2	2.00	2.00	0.00	0.00
	MH 624 to MH 625 Cross Road	Cum	3	2.00	2.00	0.00	0.00
	MH 40 to MH 2408	Cum	1	2.00	2.00	0.00	0.00
	Cross Road	Cuili		2.00	2.00	0.00	0.00
	MH 277 to MH 278	Cum	1	2.00	2.00	0.00	0.00
	-			2.00	2.00	3.55	3.55
В	Zone 3 Part 1						
	KSR Cross Road						
	MH-904 to O-30	Cum	0	2.00	2.00	0.69	0.00
	KSR Cross Road						
	MH-1891 to O-11	Cum	0	2.00	2.00	0.09	0.00
	KSR Cross Road						

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH-728 to MH-1891	Cum	0	2.00	2.00	0.00	0.00
	Balmatta Cross Road						
	MH-1027 to MH-1895	Cum	0	2.00	2.00	0.07	0.00
	KSR Cross Road						
	MH-666 to O-40	Cum	0	2.00	2.00	0.00	0.00
	KSR Cross Road			2.22	2.22		
	MH-369 to O-43	Cum	0	2.00	2.00	0.82	0.00
	KSR Cross Road	Cura	0	2.20	2.20	1 00	0.00
	MH-1205 to O-37 KSR Cross Road	Cum	0	2.30	2.30	1.80	0.00
	MH-155 to O-38	Cum	1	2.00	2.00	0.00	0.00
	Court Cross Road	Cum		2.00	2.00	0.00	0.00
	MH-1207 to O-39	Cum	9	2.00	2.00	0.59	21.24
	Court Cross Road						
	MH-645 to MH-644	Cum	2	2.15	2.15	0.81	7.49
	St Aloysius College Road						
	MH-1003 to O-22	Cum	0	2.00	2.00	0.00	0.00
	St Aloysius College Road						
	MH-1469 to O-21	Cum	0	2.00	2.00	0.00	0.00
	St Aloysius College Road and Court Road						
	MH-2491 to O-34	Cum	0	2.00	2.00	0.91	0.00
	Court Road						
	MH-1136 to MH-1537	Cum	0	2.30	2.30	0.95	0.00
	Court Cross Road						
	MH-826 to MH-827	Cum	0	2.00	2.00	1.06	0.00
	Court Road		_				
	MH-1498 to O-23	Cum	0	2.00	2.00	1.13	0.00
	KRR Cross Road	Const	0	2.00	2.00	0.00	0.00
	MH-321 to MH-2454 KRR Cross Road	Cum	0	2.00	2.00	0.00	0.00
	MH-1065 to O-20	Cum	0	2.00	2.00	0.41	0.00
	KRR Cross Road	Cuiii	U	2.00	2.00	0.41	0.00
	MH-1096 to O-18	Cum	0	2.00	2.00	0.00	0.00
	KRR Cross Road	Cann		2.00	2.00	0.00	0.00
	MH-533 to O-19	Cum	0	2.00	2.00	0.00	0.00
	Bunts Hostel Cross Road						
	MH-353 to O-17	Cum	0	2.30	2.30	1.04	0.00
	Bunts Hostel Cross Road						
	MH- 668 to O-15	Cum	0	2.30	2.30	1.21	0.00
	Bunts Hostel Cross Road						
	MH-588 to O-16	Cum	0	2.00	2.00	0.22	0.00
	Bunts Hostel Cross Road						
	MH-928 to O-14	Cum	4	2.10	2.10	1.29	22.79
	Bridge Road	_					
	MH-1264 to O-35	Cum	13	2.00	2.00	0.00	0.00
	Arya Samaj Road			2.22	2.22	0.00	26.25
	MH-1462 to O-12	Cum	22	2.30	2.30	0.23	26.25
	Arya Samaj Cross Road MH-2498 to O-45	Circ	2	2.20	2.20	0.00	0.00
	Arya Samaj Cross Road	Cum	3	2.30	2.30	0.00	0.00
	MH-1390 to O-46	Cum	2	2.30	2.30	0.01	0.05
	Kadri Cross Road	Cuiii		2.30	2.30	0.01	0.03
	MH-1107 to O-13	Cum	6	2.10	2.10	0.88	23.37
	KRR Cross Road	Cum		2.10	2.10	0.00	23.37
	MH-813 to MH-1416	Cum	3	2.00	2.00	0.69	8.28
							659.46
		Cum				Total	3070.41
	Total trenchline Qty	Cum					2410.95
	30% of Total Qty	Cum					723.29

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
5	Earthwork excavation for pipeline trenches (Except building work) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever neccessary as directed in the following Strata KUWSDB SR 15-16,Sl No 1-i-(c),Pg No 5						
i	do in all soils mixed mixed with boulders of 30 cms size upto an exclusive of disintegrated rock D182						
Α	Zone 3 Part 1						
С	4 to 6 mtr Depth						
	KSR Cross Road						
	MH-904 to O-30 KSR Cross Road	Cum	1	0.00	0.80	0.00	0.00
	MH-1891 to O-11	Cum	1	0.00	0.80	0.00	0.00
	KSR Cross Road	Cum		0.00	0.00	0.00	0.00
	MH-728 to MH-1891	Cum	1	0.00	0.80	0.00	0.00
	Balmatta Cross Road						
	MH-1027 to MH-1895	Cum	1	0.00	0.80	0.00	0.00
	MH-666 to O-40	Cum	1	0.00	0.80	0.00	0.00
	KSR Cross Road	Cum		0.00	0.80	0.00	0.00
	MH-369 to O-43	Cum	1	0.00	0.80	0.00	0.00
	KSR Cross Road						
	MH-1205 to O-37	Cum	1	0.00	0.80	1.30	0.00
	KSR Cross Road	Cum	1	22.00	0.90	0.00	0.00
	MH-155 to O-38 Court Cross Road	Cum	1	23.80	0.80	0.00	0.00
	MH-1207 to O-39	Cum	1	200.70	0.80	0.00	0.00
	Court Cross Road						
	MH-645 to MH-644	Cum	1	46.00	0.80	0.00	0.00
	St Aloysius College Road						
	MH-1003 to O-22	Cum	1	0.00	0.80	0.00	0.00
	St Aloysius College Road MH-1469 to O-21	Cum	1	0.00	0.80	0.00	0.00
	St Aloysius College Road and Court Road	Cum		0.00	0.00	0.00	0.00
	MH-2491 to O-34	Cum	1	0.00	0.80	0.21	0.00
	Court Road						
	MH-1136 to MH-1537	Cum	1	0.00	0.80	0.39	0.00
	Court Cross Road	Cum	1	0.00	0.90	0.00	0.00
	MH-826 to MH-827 Court Road	Cum	1	0.00	0.80	0.00	0.00
	MH-1498 to O-23	Cum	1	0.00	0.80	0.00	0.00
	KRR Cross Road						
	MH-321 to MH-2454	Cum	1	0.00	0.80	0.00	0.00
	KRR Cross Road			2.22	2.22		2.22
	MH-1065 to O-20 KRR Cross Road	Cum	1	0.00	0.80	0.00	0.00
	MH-1096 to O-18	Cum	1	0.00	0.80	0.00	0.00
	KRR Cross Road	Cum		0.00	0.00	0.00	0.00
	MH-533 to O-19	Cum	1	0.00	0.80	0.00	0.00
	Bunts Hostel Cross Road						
	MH-353 to O-17	Cum	1	0.00	0.80	0.00	0.00
	Bunts Hostel Cross Road MH- 668 to O-15	Cum	1	0.00	0.80	0.49	0.00
	Bunts Hostel Cross Road	Cum	1	0.00	0.80	0.48	0.00
	MH-588 to O-16	Cum	1	0.00	0.80	0.00	0.00
	Bunts Hostel Cross Road						
	MH-928 to O-14	Cum	1	99.00	0.80	1.42	112.46
	Bridge Road						
	MH-1264 to 0-35	Cum	1	285.30	0.80	0.00	0.00
	Arya Samaj Road MH-1462 to O-12	Cum	1	543.10	0.80	0.00	0.00
	Arya Samaj Cross Road	Cuili	т	243.10	0.60	0.00	0.00
	MH-2498 to O-45	Cum	1	76.20	0.80	0.00	0.00
	Arya Samaj Cross Road						
	MH-1390 to O-46	Cum	1	46.00	0.80	0.00	0.00

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	Kadri Cross Road MH-1107 to O-13	Cum	1	131.80	0.80	0.00	0.00
	KRR Cross Road	33	_		0.00		0.00
	MH-813 to MH-1416	Cum	1	84.00	0.80	0.00	0.00
							112.46
	4 to 6 mtr Depth (for Manhole)						112.40
	KSR Cross Road						
	MH-904 to O-30	Cum	0	2.00	2.00	0.00	0.00
	KSR Cross Road MH-1891 to O-11	Cum	0	2.00	2.00	0.00	0.00
	KSR Cross Road	Cum	0	2.00	2.00	0.00	0.00
	MH-728 to MH-1891	Cum	0	2.00	2.00	0.00	0.00
	Balmatta Cross Road			2.00	2.00	0.00	0.00
	MH-1027 to MH-1895 KSR Cross Road	Cum	0	2.00	2.00	0.00	0.00
	MH-666 to O-40	Cum	0	2.00	2.00	0.00	0.00
	KSR Cross Road						
	MH-369 to O-43	Cum	0	2.00	2.00	0.00	0.00
	KSR Cross Road MH-1205 to O-37	Cum	0	2.30	2.30	1.47	0.00
	KSR Cross Road	Cum	0	2.50	2.50	1.47	0.00
	MH-155 to O-38	Cum	1	2.00	2.00	0.00	0.00
	Court Cross Road		_	2.00			
	MH-1207 to O-39 Court Cross Road	Cum	9	2.00	2.00	0.00	0.00
	MH-645 to MH-644	Cum	2	2.15	2.15	0.00	0.00
	St Aloysius College Road						
	MH-1003 to O-22	Cum	0	2.00	2.00	0.00	0.00
	St Aloysius College Road MH-1469 to O-21	Cum	0	2.00	2.00	0.00	0.00
	St Aloysius College Road and Court Road	Cuiii	0	2.00	2.00	0.00	0.00
	MH-2491 to O-34	Cum	0	2.00	2.00	0.34	0.00
	Court Road						
	MH-1136 to MH-1537 Court Cross Road	Cum	0	2.30	2.30	0.64	0.00
	MH-826 to MH-827	Cum	0	2.00	2.00	0.00	0.00
	Court Road						
	MH-1498 to O-23	Cum	0	2.00	2.00	0.00	0.00
	KRR Cross Road MH-321 to MH-2454	Cum	0	2.00	2.00	0.00	0.00
	KRR Cross Road	Cam	0	2.00	2.00	0.00	0.00
	MH-1065 to O-20	Cum	0	2.00	2.00	0.00	0.00
	KRR Cross Road			2.00	2.22		
	MH-1096 to O-18 KRR Cross Road	Cum	0	2.00	2.00	0.00	0.00
	MH-533 to O-19	Cum	0	2.00	2.00	0.00	0.00
	Bunts Hostel Cross Road						
	MH-353 to O-17	Cum	0	2.30	2.30	0.00	0.00
	Bunts Hostel Cross Road MH- 668 to O-15	Cum	0	2.30	2.30	0.73	0.00
	Bunts Hostel Cross Road	Cum		2.50	2.50	0.73	0.00
	MH-588 to O-16	Cum	0	2.00	2.00	0.00	0.00
	Bunts Hostel Cross Road		_	2.10	2.10		
	MH-928 to O-14 Bridge Road	Cum	4	2.10	2.10	1.67	29.46
	MH-1264 to O-35	Cum	13	2.00	2.00	0.00	0.00
	Arya Samaj Road						
	MH-1462 to O-12	Cum	22	2.30	2.30	0.00	0.00
	Arya Samaj Cross Road MH-2498 to O-45	Cum	3	2.30	2.30	0.00	0.00
	Arya Samaj Cross Road	Cum	3	2.30	2.30	0.00	0.00
	MH-1390 to O-46	Cum	2	2.30	2.30	0.00	0.00
	Kadri Cross Road						
	MH-1107 to O-13	Cum	6	2.10	2.10	0.00	0.00
	KRR Cross Road MH-813 to MH-1416	Cum	3	2.00	2.00	0.00	0.00
	010 to thir 1710	<u> </u>	<u>.</u>	2.00	2.00	0.00	1 0.00

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
							29.46
		Cum			Total		141.92
	Total trenchline Qty	Cum					112.46
	5% of Total Qty	Cum					5.62
6	Earthwork excavation for pipeline trenches (Except building work) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever neccessary as directed in the following Strata KUWSDB SR 15-16,SI No 1-ii-(a),Pg No 5						
ii	In disintegrated rock, soft rock, soft shale, medium hard rock comprising of lime stone, sand stone, hard shale, schiest, fissured rock without resorting to blasting						
а	0 to 2 mtr Depth						
	Total Trench line Qty	Cum	1				18017.34
	Total 10% Quantity	Cum					1801.73
b	2 to 4 mtr Depth						
	Total Trench line Qty	Cum	1				2410.95
	Total 20% Quantity	Cum					482.19
С	4 to 6 mtr Depth						
	Total Trench line Qty	Cum	1				112.46
	Total 10% Quantity	Cum					11.25

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
7	Earthwork excavation for pipeline trenches (Except building work) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever neccessary as directed in the following Strata KUWSDB SR 15-16, SI No 1-iii-(a), Pg No 7						
iii	In hard laterite rock or hard laterite rock containing iron ore upto 20% by chistelling and trimming to proper slope						
а	0 to 2 mtr Depth						
	Total Trench line Qty	Cum	1				18017.34
	Total 5% Quantity	Cum					900.87
b	2 to 4 mtr Depth						
	Total Trench line Qty	Cum	1				2410.95
	Total 10% Quantity	Cum					241.10
С	4 to 6 mtr Depth						
	Total Trench line Qty	Cum	1				112.46
	Total 5% Quantity	Cum					5.62
8	Earthwork excavation for pipeline trenches (Except building work) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever neccessary as directed in the following Strata KUWSDB SR 15-16,Sl No 1-iv-(a),Pg No 7						
	In hard laterite rock containing iron ore above 20% by chistelling and trimming to proper slope						
а	0 to 2 mtr Depth						
	Total Trench line Qty	Cum	1				18017.34
	Total 2% Quantity	Cum					360.35
b	2 to 4 mtr Depth						
	Total Trench line Qty	Cum	1				2410.95
	Total 10% Quantity	Cum					241.10
С	4 to 6 mtr Depth						
	Total Trench line Qty	Cum	1				112.46
	Total 10% Quantity	Cum					11.25
9	Earthwork excavation for pipeline trenches (Except building work) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever neccessary as directed in the following Strata KUWSDB SR 15-16, SI No 1-vi-(a), Pg No 9						
	In hard rock by Controlled blasting						
а	0 to 2 mtr Depth						
	Total Trench line Qty	Cum	1				18017.34
	Total 2% Quantity	Cum					360.35
b	2 to 4 mtr Depth						
~	Total Trench line Qty	Cum	1				2410.95
	Total 20% Quantity	Cum					482.19
	A to 6 mtr Donth						
С	4 to 6 mtr Depth Total Trench line Qty	Cum	1				112.40
	Total 30% Quantity	Cum Cum	1				112.46 33.74
	Total 30/0 Qualitity	Cuili		1			35.74

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
10	Earthwork excavation for pipeline trenches (Except building work) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever neccessary as directed in the following Strata KUWSDB SR 15-16, SI No 1-v-(a), Pg No 7						
	In hard rock by chistelling						
а	0 to 2 mtr Depth						
	Total Trench line Qty	Cum	1				18017.34
	Total 1% Quantity	Cum					180.17
b	2 to 4 mtr Depth						
	Total Trench line Qty	Cum	1				2410.95
	Total 10% Quantity	Cum					241.10
С	4 to 6 mtr Depth						
	Total Trench line Qty	Cum	1				112.46
	Total 40% Quantity	Cum					44.98
11 A	Providing course sand bedding for the pipeline trenches including watering and consolidation by punners etc., complete with all lead and lift (In black cotton and rock reaches) KUWSDB 15-16,Pg No 17,Sl No.6 Zone 4 Part 2						
	Vol of sand Boxing						
	Old Port Road						
	MH 2551 to O92	Cum	1	52.80	0.80	0.15	6.34
	Azizudheen Road	Course		56.50	0.00	0.45	6.70
	MH 2550 to MH 2565 Azizudheen Road	Cum	1	56.50	0.80	0.15	6.78
	MH 646 to MH 2565	Cum	1	52.10	0.80	0.15	6.25
	Azizudheen Road	Cum		32.10	0.00		0.20
	MH 315 to MH 2247	Cum	1	37.60	0.80	0.15	4.51
	Azizudheen Road	_	_				
	MH 2239 to MH 2565 Azizudheen Road	Cum	1	146.00	0.80	0.15	17.52
	MH 435 to MH 2243	Cum	1	34.10	0.80	0.15	4.09
	Azizudheen Road	Cum		34.10	0.00	0.13	4.03
	MH 2565 to MH 379	Cum	1	69.00	0.80	0.15	8.28
	Bunder Road and old Port Road						
	MH 2548 to MH 2296	Cum	1	390.30	0.80	0.15	46.84
	Azizudheen Road MH 2209 to MH 2521	Cura	1	9F 00	0.80	0.15	10.31
	Old Port Road	Cum	1	85.90	0.80	0.15	10.51
	MH 2553 to MH 2558	Cum	1	87.30	0.80	0.15	10.48
	Cross Road						
	MH 930 to MH 2563	Cum	1	79.60	0.80	0.15	9.55
	Bunder Cross Road			107.00	2.22	0.45	12.00
	MH 2520 to MH 2292 Cartstreet Road	Cum	1	107.20	0.80	0.15	12.86
	MH 1750 to MH 2525	Cum	1	197.40	0.80	0.15	23.69
	Lower Carstreet Road	Carri		137.10	0.00	0.13	23.03
	MH 517 to MH 2508	Cum	1	207.70	0.80	0.15	24.92
	Lower Carstreet Road						
	MH 269 to MH 270	Cum	1	26.60	0.80	0.15	3.19
	Lower Carstreet Road MH 1600 to MH 1624	Cum	1	422.00	0.80	0.15	50.64
	Lower Carstreet Road	Cuili	1	422.00	0.80	0.13	30.04
	MH 1763 to MH 2539	Cum	1	48.60	0.80	0.15	5.83
	Basavana Gudi Street and Kandathpalli Road						
	MH 1194 to MH 1610	Cum	1	362.00	0.80	0.15	43.44
	Cross and Mochigali Road	Ca care		454.40	0.00	0.15	40.1-
	MH 715 to MH 1026 Bibi Alabi Road	Cum	1	151.40	0.80	0.15	18.17
	MH 2259 to MH 2495	Cum	1	76.80	0.80	0.15	9.22
	IVIII 22J3 LU IVIII 243J	<u> Culli</u>	<u> </u>	/ / 0.80	0.80	0.15	<u> </u>

Bunder and Ansari Road	H QUANTITY	DEPTH	BREADTH	LENGTH	No	UNIT	Description of Work	Sr.No.
Bibl Alabi Road	15 13.32	0.15	0.80	111 04	1	Cum		
Bunder and Ansara Road	15 15.52	0.13	0.00	111.04		Cum		
MH 1295 to MH 1294	15 6.60	0.15	0.80	55.00	1	Cum	ЛН 1138 to MH 2495	
Answir Cross Road	15 11 6	2.15	2.22	0.47.00				
MH 7.09 to MH 7.10 Ansari Road MH 2580 to MH 514 Ansari Cross Road MH 2581 to MH 636 Cum 1 51.80 0.80 0.11 Ansari Cross Road MH 2581 to MH 636 Cum 1 51.80 0.80 0.11 Ansari Cross Road MH 2581 to MH 636 Cum 1 51.80 0.80 0.11 Ansari Cross Road MH 2581 to MH 636 Cum 1 772.90 0.80 0.11 MH 2581 to MH 636 Cum 1 772.90 0.80 0.11 MH 2581 to MH 636 Cum 1 772.90 0.80 0.11 MH 2581 to MH 636 Cum 1 772.90 0.80 0.11 MH 2581 to MH 2581 to MH 2581 Cum 1 88.80 0.80 0.11 MH 2581 to MH 2581 to MH 2581 MH 2581 to MH 2588 Cum 1 1 27.60 0.80 0.11 MH 2581 to MH 2588 Cum 1 1 22.00 0.80 0.11 MH 2581 to MH 2588 MH 2581 to MH 2588 Cum 1 22.00 0.80 0.11 MH 2581 to MH 2568 MH 2581 to MH 2568 Cum 1 1 22.00 0.80 0.11 MH 270 to MH 256 Urds School Road MH 2581 to MH 2566 Cum 1 1 15.50 0.80 0.11 MH 270 to MH 2566 Cum 1 1 15.50 0.80 0.11 MH 270 to MH 2566 Cum 1 1 15.50 0.80 0.11 MH 270 to MH 2566 Cum 1 1 15.50 0.80 0.11 MH 270 to MH 2566 Cum 1 1 15.50 0.80 0.11 MH 270 to MH 2566 Cum 1 1 15.50 0.80 0.11 MH 270 to MH 2566 Cum 1 1 15.50 0.80 0.11 MH 257 to MH 2546 MH 257 to MH 2546 Cum 1 1 16.00 0.80 0.11 MH 257 to MH 2546 MH 257 to MH 2546 Cum 1 1 16.00 0.80 0.11 MH 257 to MH 2581 Cum 1 1 16.00 0.80 0.11 MH 257 to MH 2581 Cum 1 1 16.00 0.80 0.11 MH 257 to MH 2584 Cum 1 1 16.00 0.80 0.11 MH 258 to MH 399 0.00 0.00 0.00 0.00 MH 258 to MH 399 0.00 0.00 0.00 0.00 MH 258 to MH 399 0.00 0.00 0.00 0.00 0.00 MH 258 to MH 399 0.00 0.00 0.00 0.00 0.00 0.00 0.00	15 41.68	0.15	0.80	347.30	1	Cum		
MM 12580 to MM 1514	15 6.78	0.15	0.80	56.50	1	Cum		
Ansari Cross Road MH 648 TO MH 649 MH 2521 to MH 636 MH 648 TO MH 649 MH 2542 TO 0 76 MH 2542 TO 0 76 MH 2542 TO 0 77 MH 2543 TO MH 2549 MH 2542 TO 0 77 MH 2543 TO MH 2549 MH 2543 TO MH 2545 MH 2545 TO MH 2546 MH 2550 TO MH 2546 MH 2550 TO MH 2546 MH 2558 TO MH 2558 MH 2559 TO MH 2566 MH 2569 TO MH 2569 MH 2569 TO MH 2579 MH 2569 TO MH 2569 MH 2569 TO MH 2579 MH 2569 TO M							Ansari Road	
MH 2581 to MH 636 Ansari Road MH 648 TO MH 649 Cum 1 54,00 0.80 0.11 MH 2587 TO MH 649 Cum 1 1,72.90 0.80 0.11 JM 3nd Cross Road MH 2587 TO MH 649 Cum 1 1,72.90 0.80 0.11 Bibl Alabi Road MH 1237 TO MH 1236 MH 12589 To MH 2568 JM 3nd Cross Road MH 2589 To MH 2568 MH 2589 To MH 258 MH 2589 To MH 2584 MH 2589 To MH 2586 Cum 1 1 16,00 0.80 0.11 MH 359 To MH 2586 MH 359 To MH 2586 Cum 1 1 16,00 0.80 0.11 MH 359 To MH 2586 MH 359 To MH 2586 Cum 1 1 16,00 0.80 0.11 MH 359 To MH 2586 MH 359 To MH 2586 Cum 1 1 20,70 0.80 0.11 MH 359 To MH 2586 MH 359 To MH 2586 Cum 1 1 26,00 0.80 0.11 MH 359 To MH 2586 MH 359 To MH 2586 Cum 1 1 26,00 0.80 0.11 MH 359 To MH 2586 MH 359 To MH 268 MH 358 To MH 268 MH 359 To MH 268 MH 358 To MH 268 MH 359 To MH 268 MH 359 To MH 288 Cum 1 1 38,60 0.80 0.11 MH 36,00 0.80 0.11 MH 3	15 5.93	0.15	0.80	49.40	1	Cum		
Ansart Road	15 6.22	0.15	0.80	E1 90	1	Cum		
MH 648 TO MH 649	15 0.22	0.13	0.80	31.60	1	Cuili		
MH 2542 TO 0 76	15 6.48	0.15	0.80	54.00	1	Cum	лн 648 то мн 649	
M 15t Cross Road								
MH 2219 TO 0 77	15 20.75	0.15	0.80	172.90	1	Cum		
Bibl Alabi Road	15 10.66	0.15	0.80	88 80	1	Cum		
New Year	10.00	0.13	0.80	00.00		Cuili		
MH 1030 to MH 2130 Cum	15 7.49	0.15	0.80	62.40	1	Cum	ИН 2123 TO MH1247	
M 2nd Cross and GM Road								
MH 2130 to MH 2567	15 11.86	0.15	0.80	98.80	1	Cum		
GM Road	15 18.35	0.15	0.80	152 90	1	Cum		
IM 2nd Cross Road	13 10:03	0.13	0.00	132.30		Cum		
MH 2590 to MH 81	15 3.31	0.15	0.80	27.60	1	Cum	ЛН 2589 to MH 2568	
J M 2nd Cross Road					_			
MH 170 to MH 26	15 2.64	0.15	0.80	22.00	1	Cum		
Urdu School Road	15 2.66	0.15	0.80	22.20	1	Cum		
MPT Cross Road	2.00	0.13	0.00	22.20		Cum		
MH 1074 to MH 2546	15 7.08	0.15	0.80	59.00	1	Cum	ЛН 705 to MH 2133	
MH 2350 to O 73					_			
MH 2350 to O 73	15 13.86	0.15	0.80	115.50	1	Cum		
Name	15 9.68	0.15	0.80	80.70	1	Cum		
MPT Cross Road		0,10	0.00		_			
MH 957 to MH 958	15 1.94	0.15	0.80	16.20	1	Cum		
Azizudheen Road	45 40.26	0.45	0.00	06.50	4	Corre		
MH 2575 to MH 2543	15 10.38	0.15	0.80	86.50	1	Cum		
MH 2544 to MH 2571	15 24.92	0.15	0.80	207.70	1	Cum		
J M 5th Cross Road							M 5th Cross and Kandathpalli west Road	
MH 398 to MH 399	15 20.34	0.15	0.80	169.50	1	Cum		
Manual Nation	15 2.00	0.15	0.80	22.70	1	Cum		
MH 599 to MH 600 Cum 1 47.70 0.80 0.15 Ansari Road MH 402 to MH 2326 Cum 1 36.00 0.80 0.15 Kandathpalli West Road Cum 1 126.90 0.80 0.15 Kandathpalli West Cross Road Cum 1 23.60 0.80 0.15 Kandathpalli West Cross Road Cum 1 80.70 0.80 0.15 Kandathpalli West Road Cum 1 110.80 0.80 0.15 Kandathpalli West Road Cum 1 38.60 0.80 0.15 Kandathpalli West Road Cum 1 38.60 0.80 0.15 Lower Carstreet and Bhatkar Bazar Road Cum 1 316.90 0.80 0.15 Bhatkar Bazar Cross Road Cum 1 40.50 0.80 0.15	15 3.92	0.15	0.80	32.70	1	Cum		
MH 402 to MH 2326	15 5.72	0.15	0.80	47.70	1	Cum	•	
Kandathpalli West Road Cum 1 126.90 0.80 0.15							nsari Road	
MH 1211 to MH 2320 Cum 1 126.90 0.80 0.15 Kandathpalli West Cross Road Cum 1 23.60 0.80 0.15 Kandathpalli West Cross Road Cum 1 80.70 0.80 0.15 Kandathpalli West Road Cum 1 110.80 0.80 0.15 Kandathpalli West Road Cum 1 38.60 0.80 0.15 Kandathpalli West Road Cum 1 38.60 0.80 0.15 Lower Carstreet and Bhatkar Bazar Road Cum 1 316.90 0.80 0.15 Bhatkar Bazar Cross Road Cum 1 40.50 0.80 0.15 MH 287 to MH 288 Cum 1 40.50 0.80 0.15	15 4.32	0.15	0.80	36.00	1	Cum		
Kandathpalli West Cross Road Cum 1 23.60 0.80 0.15 Kandathpalli West Cross Road Cum 1 23.60 0.80 0.15 MH 2569 to MH 917 Cum 1 80.70 0.80 0.15 Kandathpalli West Road Cum 1 110.80 0.80 0.15 Kandathpalli West Road Cum 1 38.60 0.80 0.15 Lower Carstreet and Bhatkar Bazar Road Cum 1 316.90 0.80 0.15 Bhatkar Bazar Cross Road Cum 1 40.50 0.80 0.15 MH 287 to MH 288 Cum 1 40.50 0.80 0.15	15 15.23	0.15	0.80	126.00	1	Cum		
MH 2576 to MH 2466 Cum 1 23.60 0.80 0.15 Kandathpalli West Cross Road Cum 1 80.70 0.80 0.15 Kandathpalli West Road Cum 1 110.80 0.80 0.15 Kandathpalli West Road Cum 1 38.60 0.80 0.15 Lower Carstreet and Bhatkar Bazar Road Cum 1 316.90 0.80 0.15 Bhatkar Bazar Cross Road Cum 1 40.50 0.80 0.15 Cum 1 40.50 0.80 0.15	15 15.23	0.13	0.80	120.90	1	Cuiii		
MH 2569 to MH 917 Cum 1 80.70 0.80 0.15 Kandathpalli West Road Cum 1 110.80 0.80 0.15 Kandathpalli West Road Cum 1 38.60 0.80 0.15 MH 917 to MH 773 Cum 1 38.60 0.80 0.15 Lower Carstreet and Bhatkar Bazar Road Cum 1 316.90 0.80 0.15 Bhatkar Bazar Cross Road Cum 1 40.50 0.80 0.15	15 2.83	0.15	0.80	23.60	1	Cum	·	
Kandathpalli West Road Cum 1 110.80 0.80 0.15 Kandathpalli West Road Cum 1 38.60 0.80 0.15 MH 917 to MH 773 Cum 1 38.60 0.80 0.15 Lower Carstreet and Bhatkar Bazar Road Cum 1 316.90 0.80 0.15 Bhatkar Bazar Cross Road Cum 1 40.50 0.80 0.15 MH 287 to MH 288 Cum 1 40.50 0.80 0.15							Candathpalli West Cross Road	
MH 1624 to MH 917 Cum 1 110.80 0.80 0.15 Kandathpalli West Road Cum 1 38.60 0.80 0.15 MH 917 to MH 773 Cum 1 38.60 0.80 0.15 Lower Carstreet and Bhatkar Bazar Road Cum 1 316.90 0.80 0.15 Bhatkar Bazar Cross Road Cum 1 40.50 0.80 0.15 MH 287 to MH 288 Cum 1 40.50 0.80 0.15	15 9.68	0.15	0.80	80.70	1	Cum		
Kandathpalli West Road Cum 1 38.60 0.80 0.15 Lower Carstreet and Bhatkar Bazar Road Cum 1 316.90 0.80 0.15 MH 2398 to MH 1619 Cum 1 316.90 0.80 0.15 Bhatkar Bazar Cross Road Cum 1 40.50 0.80 0.15	15 13.30	O 1E	0 00	110 20	1	Cum	·	
MH 917 to MH 773 Cum 1 38.60 0.80 0.15 Lower Carstreet and Bhatkar Bazar Road Cum 1 316.90 0.80 0.15 MH 2398 to MH 1619 Cum 1 316.90 0.80 0.15 Bhatkar Bazar Cross Road Cum 1 40.50 0.80 0.15	13.30	0.13	0.80	110.00		Cuili		
MH 2398 to MH 1619 Cum 1 316.90 0.80 0.15 Bhatkar Bazar Cross Road Cum 1 40.50 0.80 0.15 MH 287 to MH 288 Cum 1 40.50 0.80 0.15	15 4.63	0.15	0.80	38.60	1	Cum	·	
Bhatkar Bazar Cross Road Cum 1 40.50 0.80 0.15								
MH 287 to MH 288 Cum 1 40.50 0.80 0.15	15 38.03	0.15	0.80	316.90	1	Cum		
	15 4.86	N 15	U &U	<u>40 50</u>	1	Cum		
	4.00	0.13	0.80	40.50	1	Cuiii	Shree Kalikamba Vinayaka Street	
	15 9.49	0.15	0.80	79.10	1	Cum	-	
Cross Road							cross Road	

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH 624 to MH 625	Cum	1	52.20	0.80	0.15	6.20
	Cross Road						
	MH 40 to MH 2408	Cum	1	15.40	0.80	0.15	1.8
	Cross Road						
	MH 277 to MH 278	Cum	1	29.00	0.80	0.15	3.48
В	Zone 3 Part 1						
	KSR Cross Road						
	MH-904 to O-30	Cum	1	0.00	0.80	0.15	0.0
	KSR Cross Road						
	MH-1891 to O-11	Cum	1	0.00	0.80	0.15	0.0
	KSR Cross Road						
	MH-728 to MH-1891	Cum	1	0.00	0.80	0.15	0.0
	Balmatta Cross Road						
	MH-1027 to MH-1895	Cum	1	0.00	0.80	0.15	0.0
	KSR Cross Road						
	MH-666 to O-40	Cum	1	0.00	0.80	0.15	0.0
	KSR Cross Road						
	MH-369 to O-43	Cum	1	0.00	0.80	0.15	0.0
	KSR Cross Road						
	MH-1205 to O-37	Cum	1	0.00	0.80	0.15	0.0
	KSR Cross Road						
	MH-155 to O-38	Cum	1	23.80	0.80	0.15	2.8
	Court Cross Road						
	MH-1207 to O-39	Cum	1	200.70	0.80	0.15	24.0
	Court Cross Road						
	MH-645 to MH-644	Cum	1	46.00	0.80	0.15	5.5
	St Aloysius College Road						
	MH-1003 to O-22	Cum	1	0.00	0.80	0.15	0.0
	St Aloysius College Road						
	MH-1469 to O-21	Cum	1	0.00	0.80	0.15	0.0
	St Aloysius College Road and Court Road						
	MH-2491 to O-34	Cum	1	0.00	0.80	0.15	0.0
	Court Road						
	MH-1136 to MH-1537	Cum	1	0.00	0.80	0.15	0.0
	Court Cross Road		_				
	MH-826 to MH-827	Cum	1	0.00	0.80	0.15	0.0
	Court Road		_				
	MH-1498 to O-23	Cum	1	0.00	0.80	0.15	0.0
	KRR Cross Road	_					
	MH-321 to MH-2454	Cum	1	0.00	0.80	0.15	0.0
	KRR Cross Road	_	_				_
	MH-1065 to O-20	Cum	1	0.00	0.80	0.15	0.0
	KRR Cross Road		_		_		
	MH-1096 to O-18	Cum	1	0.00	0.80	0.15	0.0
	KRR Cross Road						
	MH-533 to O-19	Cum	1	0.00	0.80	0.15	0.0
	Bunts Hostel Cross Road						

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH-353 to O-17	Cum	1	0.00	0.80	0.15	0.00
	Bunts Hostel Cross Road						
	MH- 668 to O-15	Cum	1	0.00	0.80	0.15	0.00
	Bunts Hostel Cross Road						
	MH-588 to O-16	Cum	1	0.00	0.80	0.15	0.00
	Bunts Hostel Cross Road						
	MH-928 to O-14	Cum	1	99.00	0.80	0.15	11.88
	Bridge Road						
	MH-1264 to O-35	Cum	1	285.30	0.80	0.15	34.24
	Arya Samaj Road						
	MH-1462 to O-12	Cum	1	543.10	0.80	0.15	65.17
	Arya Samaj Cross Road			76.00	0.00	0.15	0.11
	MH-2498 to O-45	Cum	1	76.20	0.80	0.15	9.14
	Arya Samaj Cross Road	-		46.00	0.00	0.45	
	MH-1390 to O-46	Cum	1	46.00	0.80	0.15	5.52
	Kadri Cross Road	C	4	124.00	0.00	0.15	45.03
	MH-1107 to O-13	Cum	1	131.80	0.80	0.15	15.82
	MH-813 to MH-1416	Cura	1	04.00	0.00	0.45	10.00
	MH-813 to MH-1416	Cum	1	84.00	0.80	0.15	10.08
	Household						
	For Household Connection- Zone 4 Part 2 (MH = 206Nos, L=5m X 4 connections in each manhole)-Road width >3m	Cum	206	20.00	0.60	0.15	370.80
	For Household Connection- Zone 4 Part 2 (MH = 44Nos, L=5m X 4						
	connections in each manhole)-Road width <3m	Cum	44	20.00	0.60	0.15	79.20
	For Household Connection- Zone 3 Part 1 (MH = 57Nos, L=5m X 4						
	connections in each manhole)-Road width >3m	Cum	57	20.00	0.60	0.15	102.60
	For Household Connection- Zone 3 Part 1 (MH = 8Nos, L=5m X 4						
	connections in each manhole)-Road width <3m	Cum	8	20.00	0.60	0.15	14.40
	commediate in each manner, near main sem						
	Total						1450.76
	Sand Bed Qty for Pipeline Trench	Cum					1450.76
	Sand - 10% of total bedding qty	Cum					145.08
	Providing Muram/Gravel Bedding for the pipeline trenches including						
	watering and consolidation by punners etc., complete with all lead and						
12	lift as directed including barricading, danger lighting etc., as directed by						
12	the Engineer-in-Charge etc., complete, for all type of soils excluding						
	black cotton soil and rock reaches.						
	KUWSDB Pg No.17,Sl No.6.1,6.2						
	Total bedding quantity	Cum	1				1450.76
	Murrum/Gravel - 70% of total bedding qty	Cum	1				1015.53
	Providing and laying in position plain cement concrete of M15 grade						
	with cement at 240kgs, with of 20 mm and down size graded granite						
	metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.45cum						
	for foundation and levelling course, machine mixed, concrete laid, well						
	compacted, including cost and conveyance of all materials, all leads and						
13	lifts, loading and unloading, labour, hire charges of machinery, T&P.,						
	curing and all other incidental items of work required for successful						
	completion of the work and as directed by the Engineer -in-charge of the						
	work etc complete. PCC Bedding at water logged area and drians						
	KSRB 16-17, Pg No.12,Sl No.4.1						
	Total bedding quantity	Cum	1				1450.76
				i	1		
	PCC M15 at water logged area & drains- 20% of total bedding qty	Cum	1				290.15
	PCC M15 at water logged area & drains- 20% of total bedding qty	Cum	1				290.15

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	Supplying Unplasticised PVC pipes confirming to IS 15328:2003 with						
	latest amendments ended with integral sockets with ISI mark and						
	conveying to worksite, rolling and lowering into trenches, Laying true to line and level and perfect linking at joints, testing and						
	commissioning, including loading and unloading at both destinations and						
	cuts of pipes wherever necessary including jointing of UPVC Pipes (with						
	cost of elastomeric sealing rings) and specials (excluding cost of						
14	specials) with jointing of approved type, with all labour with all lead and						
	lift including encasing the pipe alround to a depth of not less than 15cms						
	with soft gravel or selected earth available from the excavation						
	etc.,complete and giving neccessary hydraulic test to the required						
	pressure as per ISS (Contractor will make his own arrangements for procuring water for testing)						
	KUWSDB,Pg No 205 and 207,Sl No 4.3						
	Supply and laying of PVC- U Pipes as per IS 15328 SN 4 -Ring tite:						
	200mm						
А	Zone 4 Part 2						
	Old Port Road						
	MH 2551 to O92	Rmt	1	52.80			52.80
	Azizudheen Road						
	MH 2550 to MH 2565	Rmt	1	56.50			56.50
	Azizudheen Road		-	F0.15			
	MH 646 to MH 2565	Rmt	1	52.10			52.10
	Azizudheen Road MH 315 to MH 2247	Rmt	1	37.60			37.60
	Azizudheen Road	KIII		37.00			37.00
	MH 2239 to MH 2565	Rmt	1	146.00			146.00
	Azizudheen Road						
	MH 435 to MH 2243	Rmt	1	34.10			34.10
	Azizudheen Road						
	MH 2565 to MH 379	Rmt	1	69.00			69.00
	Bunder Road and old Port Road	Doort		200.20			200.20
	MH 2548 to MH 2296 Azizudheen Road	Rmt	1	390.30			390.30
	MH 2209 to MH 2521	Rmt	1	85.90			85.90
	Old Port Road	Title		03.50			03.30
	MH 2553 to MH 2558	Rmt	1	87.30			87.30
	Cross Road						
	MH 930 to MH 2563	Rmt	1	79.60			79.60
	Bunder Cross Road						
	MH 2520 to MH 2292	Rmt	1	107.20			107.20
	Cartstreet Road MH 1750 to MH 2525	Dmt	1	197.40			197.40
	Lower Carstreet Road	Rmt	1	197.40			197.40
	MH 517 to MH 2508	Rmt	1	207.70			207.70
	Lower Carstreet Road						
	MH 269 to MH 270	Rmt	1	26.60			26.60
	Lower Carstreet Road						
	MH 1600 to MH 1624	Rmt	1	422.00			422.00
	Lower Carstreet Road	Doort		40.60			40.60
	MH 1763 to MH 2539 Basavana Gudi Street and Kandathpalli Road	Rmt	1	48.60			48.60
	MH 1194 to MH 1610	Rmt	1	362.00			362.00
	Cross and Mochigali Road	TATTE		302.00			302.00
	MH 715 to MH 1026	Rmt	1	151.40			151.40
	Bibi Alabi Road						
	MH 2259 to MH 2495	Rmt	1	76.80			76.80
	Bibi Alabi Road		_				
	MH 692 to 078	Rmt	1	111.04			111.04
	Bibi Alabi Road	D.m.+	1	EE OO			EE 00
	MH 1138 to MH 2495 Bunder and Ansari Road	Rmt	1	55.00			55.00
	MH 2296 to MH 2544	Rmt	1	347.30			347.30
	Ansari Cross Road			2 . 7 . 3 3			3 17.30
	MH 709 to MH 710	Rmt	1	56.50			56.50
	Ansari Road						
	MH 2580 to MH 514	Rmt	1	49.40			49.40

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	Ansari Cross Road	Dest	1	51.80			F1 90
	MH 2581 to MH 636 Ansari Road	Rmt	1	51.80			51.80
	MH 648 TO MH 649	Rmt	1	54.00			54.00
	J M 2nd Cross Road	1	_	36			355
	MH 2542 TO O 76	Rmt	1	172.90			172.90
	J M 1st Cross Road						
	MH 2519 TO O 77	Rmt	1	88.80			88.80
	Bibi Alabi Road						
	MH 2123 TO MH1247	Rmt	1	62.40			62.40
	Kasa Gaddi Road						
	MH 1030 to MH 2130	Rmt	1	98.80			98.80
	J M 2nd Cross and GM Road	Doort	4	152.00			152.00
	MH 2130 to MH 2567 GM Road	Rmt	1	152.90			152.90
	MH 2589 to MH 2568	Rmt	1	27.60			27.60
	J M 2nd Cross Road	KIIIL	1	27.00			27.00
	MH 2590 to MH 81	Rmt	1	22.00			22.00
	J M 2nd Cross Road	Kille		22.00			22.00
	MH 170 to MH 26	Rmt	1	22.20			22.20
	Urdu School Road	131110	_				22.20
	MH 705 to MH 2133	Rmt	1	59.00			59.00
	MPT Cross Road	1	_	00100			
	MH 1074 to MH 2546	Rmt	1	115.50			115.50
	JM 5th Cross Road						
	MH 2350 to O 73	Rmt	1	80.70			80.70
	Kasa Gadi Cross Road						
	MH 50 to MH 2128	Rmt	1	16.20			16.20
	MPT Cross Road						
	MH 957 to MH 958	Rmt	1	86.50			86.50
	Azizudheen Road						
	MH 2575 to MH 2543	Rmt	1	207.70			207.70
	JM 5th Cross and Kandathpalli west Road						
	MH 2544 to MH 2571	Rmt	1	169.50			169.50
	J M 5th Cross Road	_	_				
	MH 398 to MH 399	Rmt	1	32.70			32.70
	Kandathpalli West Road	<u> </u>		47.70			47.70
	MH 599 to MH 600	Rmt	1	47.70			47.70
	Ansari Road MH 402 to MH 2326	Dmt	1	26.00			26.00
	Kandathpalli West Road	Rmt	1	36.00			36.00
	MH 1211 to MH 2320	Rmt	1	126.90			126.90
	Kandathpalli West Cross Road	KIIIL	1	120.90			120.90
	MH 2576 to MH 2466	Rmt	1	23.60			23.60
	Kandathpalli West Cross Road	Kille		23.00			25.00
	MH 2569 to MH 917	Rmt	1	80.70			80.70
	Kandathpalli West Road	1		30173			00.70
	MH 1624 to MH 917	Rmt	1	110.80			110.80
	Lower Carstreet and Bhatkar Bazar Road						
	MH 2398 to MH 1619	Rmt	1	316.90			316.90
	Bhatkar Bazar Cross Road						
	MH 287 to MH 288	Rmt	1	40.50			40.50
	Shree Kalikamba Vinayaka Street						
	MH 2522 to MH 2524	Rmt	1	79.10			79.10
	Cross Road	1					
	MH 624 to MH 625	Rmt	1	52.20			52.20
	Cross Road	1					
	MH 40 to MH 2408	Rmt	1	15.40			15.40
	Cross Road	1 -	_				
	MH 277 to MH 278	Rmt	1	29.00			29.00
<u> </u>	7 a.a. 2 David 4	1					
В	Zone 3 Part 1	1					
	KSR Cross Road	D t	4	0.00			0.00
	MH-904 to O-30	Rmt	1	0.00			0.00
	KSR Cross Road	D res ±	1	0.00			0.00
	MH-1891 to O-11	Rmt	1	0.00			0.00
	KSR Cross Road	1					

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH-728 to MH-1891	Rmt	1	0.00			0.00
	Balmatta Cross Road						
	MH-1027 to MH-1895	Rmt	1	0.00			0.00
	KSR Cross Road						
	MH-666 to O-40	Rmt	1	0.00			0.00
	KSR Cross Road						
	MH-369 to O-43	Rmt	1	0.00			0.00
	KSR Cross Road		_	0.00			0.00
	MH-1205 to O-37	Rmt	1	0.00			0.00
	KSR Cross Road		_	0.00			0.00
	MH-155 to O-38	Rmt	1	23.80			23.80
	Court Cross Road	111110		23.00			23.33
	MH-1207 to O-39	Rmt	1	200.70			200.70
	Court Cross Road	IXIIIC	_	200.70			200.70
	MH-645 to MH-644	Rmt	1	46.00			46.00
	St Aloysius College Road	Killic		40.00			40.00
	MH-1003 to O-22	Rmt	1	0.00			0.00
	St Aloysius College Road	KIIIL	1	0.00			0.00
	MH-1469 to O-21	Rmt	1	0.00			0.00
		KIIIL	1	0.00			0.00
	St Aloysius College Road and Court Road	Doot	1	0.00			0.00
	MH-2491 to O-34	Rmt	1	0.00			0.00
	Court Road	D	4	0.00			0.00
	MH-1136 to MH-1537	Rmt	1	0.00			0.00
	Court Cross Road		_	2.22			2.00
	MH-826 to MH-827	Rmt	1	0.00			0.00
	Court Road						
	MH-1498 to O-23	Rmt	1	0.00			0.00
	KRR Cross Road						
	MH-321 to MH-2454	Rmt	1	0.00			0.00
	KRR Cross Road						
	MH-1065 to O-20	Rmt	1	0.00			0.00
	KRR Cross Road						
	MH-1096 to O-18	Rmt	1	0.00			0.00
	KRR Cross Road						
	MH-533 to O-19	Rmt	1	0.00			0.00
	Bunts Hostel Cross Road						
	MH-353 to O-17	Rmt	1	0.00			0.00
	Bunts Hostel Cross Road						
	MH- 668 to O-15	Rmt	1	0.00			0.00
	Bunts Hostel Cross Road						
	MH-588 to O-16	Rmt	1	0.00			0.00
	Bunts Hostel Cross Road						
	MH-928 to O-14	Rmt	1	99.00			99.00
	Bridge Road						
	MH-1264 to O-35	Rmt	1	285.30			285.30
	Arya Samaj Road						
	MH-1462 to O-12	Rmt	1	543.10			543.10
	Arya Samaj Cross Road						
	MH-2498 to O-45	Rmt	1	76.20			76.20
	Arya Samaj Cross Road						10,20
	MH-1390 to O-46	Rmt	1	46.00			46.00
	Kadri Cross Road		_	10.00			10.00
	MH-1107 to O-13	Rmt	1	131.80			131.80
	KRR Cross Road	137116	_	101.00			131.00
<u></u>	1	ļ	ļ				l

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH-813 to MH-1416	Rmt	1	84.00			84.00
		Rmt				Total	7326.00
15	Supplying Unplasticised PVC pipes confirming to IS 15328:2003 with latest amendments ended with integral sockets with ISI mark and conveying to worksite,rolling and lowering into trenches,Laying true to line and level and perfect linking at joints,testing and commissioning,including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of UPVC Pipes (with cost of elastomeric sealing rings) and specials (excluding cost of specials) with jointing of approved type,with all labour with all lead and lift including encasing the pipe alround to a depth of not less than 15cms with soft gravel or selected earth available from the excavation						
	etc.,complete and giving neccessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for						
	procuring water for testing)						
	KUWSDB,Pg No 205 and 207,Sl No 4.4						
	, g						
	Supply and laying of PVC- U Pipes as per IS 15328 SN 4 -Ring tite: 250mm						
	Kandathpalli West Road						
	MH 917 to MH 773	Rmt	1	38.60			38.60
		Rmt				Total	39.00
16	Supplying Unplasticised PVC pipes confirming to IS 15328:2003 with latest amendments ended with integral sockets with ISI mark and conveying to worksite,rolling and lowering into trenches,Laying true to line and level and perfect linking at joints,testing and commissioning,including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of UPVC Pipes (with cost of elastomeric sealing rings) and specials (excluding cost of specials) with jointing of approved type,with all labour with all lead and lift including encasing the pipe alround to a depth of not less than 15cms with soft gravel or selected earth available from the excavation etc.,complete and giving neccessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) KUWSDB,Pg No 207 and 207,Sl No b1 Supply and laying of PVC- U Pipes as per IS 15328 SN 8 -Ring tite:						
	110mm						
	For Household Connection- Zone 4 Part 2 (MH = 206Nos, L=5m X 4	Dest	206	20.00			4120.00
	connections in each manhole)-Road width >3m	Rmt	206	20.00			4120.00
	For Household Connection- Zone 4 Part 2 (MH = 44Nos, L=5m X 4 connections in each manhole)-Road width <3m	Rmt	44	20.00			880.00
	For Household Connection- Zone 3 Part 1 (MH = 57Nos, L=5m X 4 connections in each manhole)-Road width >3m	Rmt	57	20.00			1140.00
	For Household Connection- Zone 3 Part 1 (MH = 8Nos, L=5m X 4 connections in each manhole)-Road width <3m	Rmt	8	20.00			160.00
		Rmt				Total	6300.00

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
17	Construction RCC M25 circular inspection chamber 600 mm dia x 600mm depth (clear inside dimension) for single pipeline, with M15 PCC bed for 100 mm thick using mix with cement @240 kgs granite graded metal of 20 mm and down size and clean sieved river sand, M25 RCC raft & sidewall concrete with 20mm and downsize granite metal, , finish smooth with a floating coat of cement on walls and bed concrete complete, including fixing and grouting of pipes, including conveying to work spot supply and fixing SFRC manhole cover and frame (Heavy Duty) confirming to IS: 12592 with latest amendments as per standard design including cost of reinforcement, all materials, labour charges, curing complete as per specifications.						
	As Per Data Rate 450x300mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non modular bricks of class designation 50						
	in cement mortar 1:5,Cl cover with frame (light duty) 450x300mm						
	Zone 4 Part 2						
	Inspection chambers for house service connections (Road width greater than 3m) - MH No= 206 Nos x 2 chambers per Manhole	Nos	412				412.00
	Zone 3 Part 1						
	Inspection chambers for house service connections (Road width greater than 3m) - MH No= 57 Nos x 2 chambers per Manhole	Nos	114				114.00
		Nos				Total	526.00
18	Making connections of drain or sewer line of size 100mm to 230mm external dia with existing manhole including breaking into and making good the walls, floors with cement concrete M15 with 20mm and downsize granite metal mix cement plastered on both sides with cement mortar 1:3 finished with a floating coat of neat cement and making necessary channels for the drain etc., complete PWD SR 2016-17,Sl No.11.47.3,Pg No.73						
	Connecting Line to Existing manhole						
	Zone 4 Part 2						
	MH-1605 to MH-1606	No	1				1.00
	MH-2174 to MH-804	No	1				1.00
	MH-2136 to MH-2546	No	1				1.00
	MH-2546 to MH-2350 MH-2129 to MH-2130	No No	1				1.00 1.00
	MH-2519 to MH-910	No	1				1.00
	MH-2262 to O -78	No	1				1.00
	MH-2261 to MH-2521	No	1				1.00
	MH-191 to O -92	No	1				1.00
	MH-2320 to O -773	No	1				1.00
	MH-600 to O -2571	No	1				1.00
	MH-710 to O -2544 MH-2272 to O - 77	No No	1				1.00
	MH-2340 to O - 76	No	1				1.00
	MH-2351 to MH-2352	No	1				1.00
	MH-2352 to O-73	No	1				1.00
	MH-2325 to MH-2326	No	1				1.00
	Zone 3 Part 1						
	MH-1395 to O-12	No	1				1.00
	MH-1420 to O-13	No	1				1.00
	MH-1437 to O-14	No	1				1.00
	MH-929 to O-35	No	1				1.00
	MH-1389 to O-46 MH-1386 to O-45	No No	1				1.00 1.00
	MH-2442 to O-39	No	1				1.00
	MH-155 to O-38	No	1				1.00
		Nos	_			Total	25.00
		1402				iotai	25.00

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	Constructing RCC Manhole chamber of 1:1.5:3 proportion or approved						
	type pre-cast RCC manhole chambers, constructed using form vibrators						
	of standard type, with barricading, danger lighting and using of sight						
	rails and boning rods wherever necessary , shoring and strutting						
	wherever required using ordinary port land cement, using 1:1.5:3						
	proportion RCC with 20 mm and down graded jelly, well graded sand						
	and steel of approved quality, 200 mm thick top concrete slab, having wall thickness and raft thickness as in approved drawings and with an						
	offset in raft alround the chamber as in approved drawing, benching						
	concrete with 1:6 slope towards the central drain finished smooth,						
	including fixing and grouting of pipes, including conveying to work spot						
19	supply and fixing SFRC manhole cover and frame (Heavy Duty)						
	confirming to IS: 12592 with latest amendments, on a bed of CC 1:2:4						
	supplying and fixing of minimum 3 mm thick encapsulated plastic						
	footsteps (as per IS 10910) on 12 mm dia. Grade Fe-415 steel bar (as						
	per IS 1786) staggered at 300 mm apart as detailed in Technical						
	specifications, including sand bedding wherever required, disposal of						
	surplus earth, watering, curing, engraving manhole number with flow						
	direction on the inner cylindrical surface etc., complete including cost of						
	reinforcement steel and fabrication charges and also cost and						
	conveyance of all materials, labour with all lead and lifts for various						
	diameters and depths noted below as per specification, drawing and as						
Α	Zone 4 Part 2						
	1.2m Dia Manholes	A *	45				4= 55
	For 1.0m Depth	Nos	15				15.00
	For 1.1m Depth	Nos	3				3.00
	For 1.2m Depth For 1.3m Depth	Nos Nos	51 30				51.00 30.00
	For 1.4m Depth	Nos	23				23.00
	For 1.5m Depth	Nos	22				22.00
	For 1.6m Depth	Nos	15				15.00
	For 1.7m Depth	Nos	7				7.00
	For 1.8m Depth	Nos	9				9.00
	For 1.9m Depth	Nos	4				4.00
	For 2.0m Depth	Nos	6				6.00
	For 2.1m Depth	Nos	7				7.00
	For 2.2m Depth	Nos	10				10.00
	For 2.3m Depth	Nos	3				3.00
	For 2.4m Depth	Nos	5				5.00
	For 2.5m Depth	Nos	2				2.00
	For 2.6m Depth	Nos	4				4.00
	For 2.7m Depth	Nos	6				6.00
	For 2.8m Depth	Nos	3				3.00
	For 2.9m Depth	Nos	3				3.00
	For 3.0m Depth	Nos	2		T = 4 = 1		2.00
	1 Em Dia Manhalas	Nos			Total		230.00
	1.5m Dia Manholes For 3.1m Depth	Nos	4				4.00
	For 3.2m Depth	Nos	4				4.00
	For 3.3m Depth	Nos	3				3.00
	For 3.4m Depth	Nos	2				2.00
	For 3.5m Depth	Nos	1				1.00
	For 3.7m Depth	Nos	1				1.00
	For 3.9m Depth	Nos	1				1.00
	For 4.0m Depth	Nos	2				2.00
	For 4.2m Depth	Nos	2				2.00
		Nos			Total		20.00
В	Zone 3 Part 1						
	1.2m Dia Manholes						
	For 1.0m Depth	Nos	1				1.00
	For 1.1m Depth	Nos	1				1.00
	For 1.2m Depth	Nos	13				13.00
	For 1.3m Depth	Nos	1				1.00
	For 1.4m Depth	Nos	7				7.00
	For 1.5m Depth	Nos	18				18.00
	For 1.6m Depth	Nos	5				5.00
-	For 1.7m Depth For 1.8m Depth	Nos	3				1.00
	ι οι τ.οιιι σεραί	Nos	<u> </u>	<u> </u>			3.00

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	For 2.0m Depth	Nos	1				1.00
	For 2.2m Depth	Nos	3				3.00
	For 2.3m Depth	Nos	1				1.00
	For 2.4m Depth	Nos	2				2.00
	For 2.7m Depth	Nos	1				1.00
	For 2.8m Depth	Nos	2				2.00
	For 2.9m Depth	Nos	1				1.00
		Nos					61.00
	1.5m Dia Manholes						
	For 3.1m Depth	Nos	1				1.00
	For 3.3m Depth	Nos	1				1.00
	For 3.4m Depth	Nos	1				1.00
	For 3.6m Depth	Nos	1				1.00
		Nos					4.00
						Total	315.00
20	Providing and fixing Drop arrangements ,with following diameter HDPE Garde PE-100 Pipes,confirming to PN 6 as per IS 4984-1995 with latest amendments vertical drop pipe with MS fastenings at 300 mm dia C/C, with suitable expander /reducer HDPE T joint at top with incoming sewer with one end of Tee inside the manhole closed with end cap and 45 degree bend at the bottom with HDPE Specials and encasing the pipe outside manhole with cement concrete of 1:2:4 proportion,150/200 mm thick alround the HDPE pipe including vibrating, Compacting, Necessary centering and formwork, curing testing, including cost and conveyance of all materials, labour with all lead and lift etc., complete as perspecification drawing and as directed by the engineer in charge BWSSB SI No.98,Pg No.91 For 150/200 mm dia incoming sewer pipe - Zone 4 Part 2 For 150/200 mm dia incoming sewer pipe - Zone 3 Part 1	Rmt Rmt	1 1	11.79 2.72			11.79 2.72
		Rmt			Total		14.51
21 A	Refilling Pipeline Trenches and foundation with selected available earth from trench excavation and foundation including watering, consolidation in layers of 15cms., thick including disposing off the surplus earth with all lead and lift. KUWSDB Pg No 15, SI No 2 Zone 4 Part 2 and Zone 3 Part 1						
а	Excavation Qty (Pipe Line trench and manhole) -SI No 5	Cum	1				23687.92
b	Deduction						23007.32
	Sand Bed Qty (Only for Pipe line trench, Household and manhole side)-SI No 11	Cum	-1				-1450.76
	Pipe Qty - Sl No 11	Cum	-1				-357.60
	PCC and Raft Qty for manhole - Sl No 11	Cum	-1				-508.25
	Manhole Ded - SI No 11	Cum	-1				-1530.46
	Road Restoration Qty (Sl No.23,24,26 and 28)	Cum	-1	_			-8428.65
				То	tal Refilled C	ety	11412.20
22	Removal of Unserviceable Soil with Disposal KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301 KPWD Pg No. ,SI No.19.20						
Α	Zone 4 Part 2 and Zone 3 Part 1		-				
a	Excavation Qty (SI No 5)	Cum	1		<u> </u>		23687.92
b	Deduction		-				44
	Refilled Excavated Soil Qty (SI No. 21)	Cum	-1				-11412.20
I	Total Qty	Cum		_	<u> </u>		12275.72
	Doduct 0.750/ Wests as division Landing		_				
	Deduct 0.75% Wastage during loading Net Qty	Cum Cum	-1				-92.07 12183.65

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
23	KSRRB M400-6.1 Construction of granualr sub-base by providing close graded crushed stone aggregates of granite/trap/basalt 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 specifications, Including environmental and social safe guards, including all taxes, as directed by the Engineer-in-Charge etc. Close graded granular sub-base material as per 400-1, For						
	Grading - I material , by Plant Mix Method KSRB Pg No.155,20.4.1						
Α	Zone 4 Part 2 Only for Pipe portion trench						
	Old Port Road						
	MH 2551 to O92	Cum	1	52.80	1.20	0.30	19.01
	Azizudheen Road MH 2550 to MH 2565	Cum	1	56.50	1.20	0.30	20.34
	Azizudheen Road						
	MH 646 to MH 2565 Azizudheen Road	Cum	1	52.10	1.20	0.30	18.76
	MH 315 to MH 2247	Cum	1	37.60	2.10	0.30	23.69
	Azizudheen Road				1.00		
	MH 2239 to MH 2565 Azizudheen Road	Cum	1	146.00	1.20	0.30	52.56
	MH 435 to MH 2243	Cum	1	34.10	1.20	0.30	12.28
	Azizudheen Road MH 2565 to MH 379	Cum	1	69.00	2.10	0.30	43.47
	Bunder Road and old Port Road	Cum		03.00	2.10	0.30	43.47
	MH 2548 to MH 2296	Cum	1	390.30	1.20	0.30	140.51
	Azizudheen Road MH 2209 to MH 2521	Cum	1	85.90	1.20	0.30	30.92
	Old Port Road						
	MH 2553 to MH 2558 Cross Road	Cum	1	87.30	1.20	0.30	31.43
	MH 930 to MH 2563	Cum	1	79.60	2.20	0.30	52.54
	Bunder Cross Road	Constant	4	107.20	4.20	0.20	20.50
	MH 2520 to MH 2292 Cartstreet Road	Cum	1	107.20	1.20	0.30	38.59
	MH 1750 to MH 2525	Cum	1	197.40	1.20	0.30	71.06
	MH 517 to MH 2508	Cum	1	207.70	2.35	0.30	146.43
	Lower Carstreet Road	Carri		207.70	2.33	0.50	140.43
	MH 269 to MH 270	Cum	1	26.60	1.20	0.30	9.58
	MH 1600 to MH 1624	Cum	1	422.00	2.10	0.30	265.86
	Lower Carstreet Road						
	MH 1763 to MH 2539 Basavana Gudi Street and Kandathpalli Road	Cum	1	48.60	1.20	0.30	17.50
	MH 1194 to MH 1610	Cum	1	362.00	2.10	0.30	228.06
	Cross and Mochigali Road	Curre	1	151 40	2.20	0.20	104.47
	MH 715 to MH 1026 Bibi Alabi Road	Cum	1	151.40	2.30	0.30	104.47
	MH 2259 to MH 2495	Cum	1	76.80	1.20	0.30	27.65
	MH 692 to O78	Cum	1	111.04	2.38	0.30	79.12
	Bibi Alabi Road	Cum	-	111.04	2.30	0.50	73.12
	MH 1138 to MH 2495	Cum	1	55.00	2.10	0.30	34.65
	MH 2296 to MH 2544	Cum	1	347.30	2.10	0.30	218.80
	Ansari Cross Road						
	MH 709 to MH 710 Ansari Road	Cum	1	56.50	2.30	0.30	38.99
	MH 2580 to MH 514	Cum	1	49.40	2.75	0.30	40.76
	Ansari Cross Road		-				
	MH 2581 to MH 636 Ansari Road	Cum	1	51.80	2.10	0.30	32.63
	MH 648 TO MH 649	Cum	1	54.00	2.10	0.30	34.02
	J M 2nd Cross Road						

M 145 Cross Road	Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
MH 2519 TO 0 77		MH 2542 TO O 76	Cum	1	172.90	1.20	0.30	62.24
Bibl Alabi Road								
Mil 21/3 TO Mil 12/3			Cum	1	88.80	2.10	0.30	55.94
Kasa Gaddi Road			Cum	1	62.40	1.20	0.30	22.46
M 2nd Cross And GM Read			Carri		02.40	1.20	0.50	22.40
MM 1233 to MM 12667		MH 1030 to MH 2130	Cum	1	98.80	2.10	0.30	62.24
GM Road		J M 2nd Cross and GM Road						
MM 2589 to MM 2588			Cum	1	152.90	2.10	0.30	96.33
M Zero Cross Road			Cum	1	27.60	1 50	0.20	12.42
MM 12500 to MM 81			Cuiii	т	27.00	1.50	0.30	12.42
MH 170 to MH 26 Urdu School Board MH 705 to MH 2133 Cum 1 99.00 1.20 0.30 22 MPT Cross Road MH 1705 to MH 2566 Cum 1 115.50 1.20 0.30 41 JMM 5th Cross Road MH 1705 to MH 2566 Cum 1 115.50 1.20 0.30 41 JMM 5th Cross Road MH 1705 to MH 2566 Cum 1 115.50 1.20 0.30 41 JMM 5th Cross Road MH 1705 to MH 2566 Cum 1 1 16.20 2.50 0.30 12 MPT Cross Road MH 1705 to MH 2588 Cum 1 1 16.20 2.50 0.30 12 MPT Cross Road MH 1705 to MH 2543 Cum 1 1 16.20 2.50 0.30 12 MPT Cross Road MH 1705 to MH 2543 JM 5th Cross Road MH 2575 to MH 2543 JM 5th Cross Road MH 2575 to MH 2543 JM 5th Cross Road MH 1805 to MH 2543 JM 5th Cross Road MH 1805 to MH 2543 JM 5th Cross Road MH 1805 to MH 2540 MH 2575 to MH 2575 MH 2580 to MH 317 MH 3580 to MH 2580 MH 2580 to MH 317 MH 3580 to MH 2580 MH 2580 to MH 317 MH 3580 to MH 2580 MH 3580 to MH 2580 MH 2580 to MH 3680 MH 2580 to MH 317 MH 380 to MH 2580 MH 3580 to MH 3680 MH 3580 to MH 3680 to MH 3680 to MH 3680 to MH 3880			Cum	1	22.00	2.00	0.30	13.20
Urdu School Road		J M 2nd Cross Road						
MH 705 to MH 2333 MPT Cross Road MH 1074 to MH 2546 MH 2575 to MH 2586			Cum	1	22.20	2.00	0.30	13.32
MPT Cross Road			-	4	50.00	4.20	0.20	24.24
MH 1074 to MH 2546			Cum	1	59.00	1.20	0.30	21.24
MJ Sth Cross Road			Cum	1	115.50	1 20	0.30	41.58
MH 2350 to 0 73			Carri	-	113.30	1.20	3.30	71.50
MH 50 to MH 2128			Cum	1	80.70	1.20	0.30	29.05
MPT Cross Road								
MH 957 to MH 958			Cum	1	16.20	2.50	0.30	12.15
Mil 2575 to Mil 2543			Cura	1	90.50	2.40	0.30	F4 F0
MH 2575 to MH 2548			Cum	1	86.50	2.10	0.30	54.50
MM 5th Cross and Kandathpalli west Road			Cum	1	207.70	1.20	0.30	74.77
M Sth Cross Road				_				
MH 398 to MH 399		MH 2544 to MH 2571	Cum	1	169.50	2.10	0.30	106.79
Kandathpalli West Road								
MH 599 to MH 600			Cum	1	32.70	2.10	0.30	20.60
Ansari Road			Cum	1	47.70	2 10	0.20	30.05
MH 402 to MH 2326			Cuili		47.70	2.10	0.50	30.03
Kandathpalli West Road			Cum	1	36.00	3.00	0.30	32.40
Kandathpalli West Cross Road		Kandathpalli West Road						
MH 2576 to MH 2466		MH 1211 to MH 2320	Cum	1	126.90	2.80	0.30	106.60
Name								
MH 2569 to MH 917			Cum	1	23.60	1.20	0.30	8.50
Name			Cum	1	80.70	2 10	0.30	50.84
MH 1624 to MH 917			Carri		00.70	2.10	0.50	30.04
MH 917 to MH 773			Cum	1	110.80	2.10	0.30	69.80
Lower Carstreet and Bhatkar Bazar Road		Kandathpalli West Road						
MH 2398 to MH 1619 Cum 1 316.90 2.10 0.30 199 Bhatkar Bazar Cross Road MH 287 to MH 288 Cum 1 40.50 2.20 0.30 26 Shree Kalikamba Vinayaka Street Cum 1 79.10 1.20 0.30 28 Cross Road Cross Road Cum 1 52.20 2.00 0.30 31 MH 40 to MH 2408 Cum 1 15.40 2.00 0.30 9 Cross Road MH 277 to MH 278 Cum 1 29.00 2.00 0.30 17 B Zone 3 Part 1 Bridge Road Cum 1 285.30 1.20 0.30 102 A Zone 4 Part 2 Only for Manhole portion Old Port Road MH 2551 to 092 Cum 2 2.00 2.00 0.30 2			Cum	1	38.60	2.18	0.30	25.19
Bhatkar Bazar Cross Road			Cure	- 1	216.00	2.10	0.20	100.65
MH 287 to MH 288 Cum 1 40.50 2.20 0.30 26 Shree Kalikamba Vinayaka Street			Cum	1	316.90	2.10	0.30	199.65
Shree Kalikamba Vinayaka Street Cum 1 79.10 1.20 0.30 28 Cross Road Cum 1 52.20 2.00 0.30 31 Cross Road Cum 1 15.40 2.00 0.30 9 Cross Road Cum 1 15.40 2.00 0.30 9 Cross Road Cum 1 29.00 2.00 0.30 17 B Zone 3 Part 1 Zone 3 Part 1 Zone 3 Part 1 Zone 4 Part 2 Zone 3 Part 1 Zone 4 Part 2 Zone 4 Part 2 Zone 3 Part 3 Zone 3 Part 3 Zone 3 Part 4 Zone 3 Part 4 <th< td=""><td></td><td></td><td>Cum</td><td>1</td><td>40.50</td><td>2.20</td><td>0.30</td><td>26.73</td></th<>			Cum	1	40.50	2.20	0.30	26.73
MH 2522 to MH 2524 Cum 1 79.10 1.20 0.30 28 Cross Road Cross Road Cross Road Cum 1 52.20 2.00 0.30 31 Cross Road Cross Road Cum 1 15.40 2.00 0.30 9 Expression B Zone 3 Part 1 Bridge Road Cum 1 29.00 2.00 0.30 17 A Zone 4 Part 2 Cum 1 285.30 1.20 0.30 102 Only for Manhole portion Old Port Road MH 2551 to O92 Cum 2 2.00 2.00 0.30 2								
MH 624 to MH 625 Cum 1 52.20 2.00 0.30 31 Cross Road Cross Road Cum 1 15.40 2.00 0.30 9 MH 277 to MH 278 Cum 1 29.00 2.00 0.30 17 B Zone 3 Part 1 Bridge Road Cum 1 285.30 1.20 0.30 102 Cum Cum 1 285.30 1.20 0.30 102 A Zone 4 Part 2 Only for Manhole portion Old Port Road MH 2551 to 092 Cum 2 2.00 2.00 0.30 2		MH 2522 to MH 2524	Cum	1	79.10	1.20	0.30	28.48
Cross Road Cum 1 15.40 2.00 0.30 9 Cross Road MH 277 to MH 278 Cum 1 29.00 2.00 0.30 17 B Zone 3 Part 1 Bridge Road Cum 1 285.30 1.20 0.30 102 MH-1264 to O-35 Cum 1 285.30 1.20 0.30 102 A Zone 4 Part 2 Only for Manhole portion Old Port Road Cum 2 2.00 2.00 0.30 2								
MH 40 to MH 2408 Cum 1 15.40 2.00 0.30 9 Cross Road MH 277 to MH 278 Cum 1 29.00 2.00 0.30 17 B Zone 3 Part 1 Bridge Road Cum 1 285.30 1.20 0.30 102 MH-1264 to O-35 Cum 1 285.30 1.20 0.30 102 A Zone 4 Part 2 Only for Manhole portion Old Port Road MH 2551 to O92 Cum 2 2.00 2.00 0.30 2			Cum	1	52.20	2.00	0.30	31.32
Cross Road Cum 1 29.00 2.00 0.30 17 B Zone 3 Part 1 Stridge Road Cum 1 285.30 1.20 0.30 102 MH-1264 to 0-35 Cum 1 285.30 1.20 0.30 102 Cum Total 3271 A Zone 4 Part 2 Cum Total 3271 Old Port Road Cum 2 2.00 2.00 0.30 2			Cum	1	15 40	2.00	0.20	9.24
MH 277 to MH 278 Cum 1 29.00 2.00 0.30 17 B Zone 3 Part 1 Sridge Road Stridge Road <td< td=""><td></td><td></td><td>Cuili</td><td></td><td>13.40</td><td>2.00</td><td>0.30</td><td>3.24</td></td<>			Cuili		13.40	2.00	0.30	3.24
B Zone 3 Part 1 Bridge Road MH-1264 to O-35 Cum 1 285.30 1.20 0.30 102 Cum Total 3271 A Zone 4 Part 2 Only for Manhole portion Old Port Road MH 2551 to O92 Cum 2 2.00 2.00 0.30 2			Cum	1	29.00	2.00	0.30	17.40
Bridge Road Cum 1 285.30 1.20 0.30 102 MH-1264 to 0-35 Cum Total 3271 A Zone 4 Part 2 Only for Manhole portion Old Port Road MH 2551 to 092 Cum 2 2.00 2.00 0.30 2								
MH-1264 to 0-35 Cum 1 285.30 1.20 0.30 102 Cum Cum Total 3271 A Zone 4 Part 2 Only for Manhole portion Old Port Road Old Port Road Cum 2 2.00 2.00 0.30 2 MH 2551 to 092 Cum 2 2.00 2.00 0.30 2	В							
A Zone 4 Part 2 Cum Total 3271 Only for Manhole portion Old Port Road Total 3271 MH 2551 to 092 Cum 2 2.00 2.00 0.30 2					207.55		2.55	400 = 1
A Zone 4 Part 2 Only for Manhole portion Old Port Road MH 2551 to 092 Cum 2 2.00 2.00 0.30 2		IVIH-1264 to U-35		1	285.30	1.20		
Only for Manhole portion Old Port Road MH 2551 to O92 Cum 2 2.00 2.00 0.30 2	Δ	Zone 4 Part 2	Cum				iotai	32/1.38
Old Port Road Cum 2 2.00 2.00 0.30 2								
Azizudheen Road		MH 2551 to O92	Cum	2	2.00	2.00	0.30	2.40
		Azizudheen Road				_		

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH 2550 to MH 2565	Cum	2	2.00	2.00	0.30	2.40
	Azizudheen Road						
	MH 646 to MH 2565 Azizudheen Road	Cum	3	2.00	2.00	0.30	3.60
	MH 315 to MH 2247	Cum	2	2.00	2.00	0.30	2.40
	Azizudheen Road	Carri		2.00	2.00	0.50	2.40
	MH 2239 to MH 2565	Cum	6	2.00	2.00	0.30	7.20
	Azizudheen Road						
	MH 435 to MH 2243	Cum	2	2.00	2.00	0.30	2.40
	Azizudheen Road MH 2565 to MH 379	Cum	4	2.00	2.00	0.30	4.80
	Bunder Road and old Port Road	Cuili	4	2.00	2.00	0.50	4.60
	MH 2548 to MH 2296	Cum	16	2.00	2.00	0.30	19.20
	Azizudheen Road						
	MH 2209 to MH 2521	Cum	3	2.00	2.00	0.30	3.60
	Old Port Road			2.00	2.00	0.20	2.60
	MH 2553 to MH 2558 Cross Road	Cum	3	2.00	2.00	0.30	3.60
	MH 930 to MH 2563	Cum	5	2.00	2.00	0.30	6.00
	Bunder Cross Road	Carri		2.00	2.00	5.50	0.00
	MH 2520 to MH 2292	Cum	3	2.00	2.00	0.30	3.60
	Cartstreet Road						
	MH 1750 to MH 2525	Cum	8	2.00	2.00	0.30	9.60
	Lower Carstreet Road MH 517 to MH 2508	Cura	11	2.00	3.00	0.30	12.20
	Lower Carstreet Road	Cum	11	2.00	2.00	0.30	13.20
	MH 269 to MH 270	Cum	2	2.00	2.00	0.30	2.40
	Lower Carstreet Road		_				
	MH 1600 to MH 1624	Cum	17	2.00	2.00	0.30	20.40
	Lower Carstreet Road						
	MH 1763 to MH 2539	Cum	2	2.00	2.00	0.30	2.40
	Basavana Gudi Street and Kandathpalli Road MH 1194 to MH 1610	Cum	1.4	2.00	2.00	0.30	16.90
	Cross and Mochigali Road	Cum	14	2.00	2.00	0.30	16.80
	MH 715 to MH 1026	Cum	8	2.00	2.00	0.30	9.60
	Bibi Alabi Road						
	MH 2259 to MH 2495	Cum	3	2.00	2.00	0.30	3.60
	Bibi Alabi Road						
	MH 692 to O78	Cum	7	2.00	2.00	0.30	8.40
	Bibi Alabi Road MH 1138 to MH 2495	Cum	3	2.00	2.00	0.30	3.60
	Bunder and Ansari Road	Carri	<u> </u>	2.00	2.00	0.50	3.00
	MH 2296 to MH 2544	Cum	14	2.10	2.10	0.30	18.52
	Ansari Cross Road						
	MH 709 to MH 710	Cum	3	2.00	2.00	0.30	3.60
	Ansari Road	Course	2	2.20	2.20	0.20	2.47
	MH 2580 to MH 514 Ansari Cross Road	Cum	2	2.30	2.30	0.30	3.17
	MH 2581 to MH 636	Cum	2	2.00	2.00	0.30	2.40
	Ansari Road			2.00	2.00	0.50	2.10
	MH 648 TO MH 649	Cum	2	2.30	2.30	0.30	3.17
	J M 2nd Cross Road						
	MH 2542 TO O 76	Cum	5	2.00	2.00	0.30	6.00
	J M 1st Cross Road	Cure	2	2.00	2.00	0.20	2.60
	MH 2519 TO O 77 Bibi Alabi Road	Cum	3	2.00	2.00	0.30	3.60
	MH 2123 TO MH1247	Cum	3	2.00	2.00	0.30	3.60
	Kasa Gaddi Road						
	MH 1030 to MH 2130	Cum	4	2.00	2.00	0.30	4.80
	J M 2nd Cross and GM Road						
	MH 2130 to MH 2567	Cum	7	2.00	2.00	0.30	8.40
	GM Road MH 2589 to MH 2568	Cum	1	2.00	2.00	0.30	1.20
	J M 2nd Cross Road	Cuili	1	2.00	2.00	0.30	1.20
	MH 2590 to MH 81	Cum	1	2.00	2.00	0.30	1.20
	J M 2nd Cross Road						
	MH 170 to MH 26	Cum	1	2.00	2.00	0.30	1.20

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	Urdu School Road						
	MH 705 to MH 2133	Cum	3	2.00	2.00	0.30	3.60
	MPT Cross Road						
	MH 1074 to MH 2546	Cum	5	2.00	2.00	0.30	6.00
	JM 5th Cross Road	_	_				
	MH 2350 to O 73	Cum	2	2.00	2.00	0.30	2.40
	Kasa Gadi Cross Road		_				
	MH 50 to MH 2128	Cum	1	2.00	2.00	0.30	1.20
	MPT Cross Road						
	MH 957 to MH 958	Cum	3	2.00	2.00	0.30	3.60
	Azizudheen Road						
	MH 2575 to MH 2543	Cum	7	2.00	2.00	0.30	8.40
	JM 5th Cross and Kandathpalli west Road						
	MH 2544 to MH 2571	Cum	6	2.30	2.30	0.30	9.52
	J M 5th Cross Road						
	MH 398 to MH 399	Cum	2	2.00	2.00	0.30	2.40
	Kandathpalli West Road						
	MH 599 to MH 600	Cum	2	2.00	2.00	0.30	2.40
	Ansari Road						
	MH 402 to MH 2326	Cum	2	2.00	2.00	0.30	2.40
	Kandathpalli West Road						
	MH 1211 to MH 2320	Cum	8	2.00	2.00	0.30	9.60
	Kandathpalli West Cross Road						
	MH 2576 to MH 2466	Cum	1	2.00	2.00	0.30	1.20
	Kandathpalli West Cross Road						
	MH 2569 to MH 917	Cum	3	2.10	2.10	0.30	3.97
	Kandathpalli West Road						
	MH 1624 to MH 917	Cum	5	2.15	2.15	0.30	6.93
	Kandathpalli West Road						
	MH 917 to MH 773	Cum	2	2.30	2.30	0.30	3.17
	Lower Carstreet and Bhatkar Bazar Road						
	MH 2398 to MH 1619	Cum	14	2.00	2.00	0.30	16.80
	Bhatkar Bazar Cross Road						
	MH 287 to MH 288	Cum	2	2.00	2.00	0.30	2.40
	Shree Kalikamba Vinayaka Street						
	MH 2522 to MH 2524	Cum	3	2.00	2.00	0.30	3.60
	Cross Road						
	MH 624 to MH 625	Cum	3	2.00	2.00	0.30	3.60
	Cross Road						
	MH 40 to MH 2408	Cum	1	2.00	2.00	0.30	1.20
	Cross Road						
	MH 277 to MH 278	Cum	1	2.00	2.00	0.30	1.20
В	Zone 3 Part 1						
	Bridge Road						
	MH-1264 to O-35	Cum	13	2.00	2.00	0.30	15.60
	Household						
	For Household Connection- Zone 4 Part 2 (MH = 206Nos, L=5m X 4 connections in each manhole)-Road width >3m	Cum	206	10.00	0.60	0.30	370.80
	For Household Connection- Zone 4 Part 2 (MH = 44Nos, L=5m X 4 connections in each manhole)-Road width <3m	Cum	44	10.00	0.60	0.30	79.20
	For Household Connection- Zone 3 Part 1 (MH = 13Nos, L=5m X 4 connections in each manhole)-Road width >3m	Cum	13	10.00	0.60	0.30	23.40
				Area (Pi*r*r)		
Α	Zone -4 (Part 2) and Zone -3 (Part 1)			`			
	Ded Manhole top cover Dia 0.60m and base dia 1.2m	Cum	-243.00	0.	28	0.30	-20.60
	Ded Manhole top cover Dia 0.60m and base dia 1.5m	Cum	-20.00		28	0.30	
	•		1				
		Cum				Total	4045.75

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
24	KSRRB M400- Wet Mix macadam KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite/trap/basalt to wet mix macadam specification including per mixing the material with water at OMC in Mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in subbase/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specification. MORTH Specification NO.406						
	KSRB Pg No 158,20.18						
Α	Zone 4 Part 2 Only for Pipe portion trench						
	Old Port Road						
	MH 2551 to O92	Cum	1	52.80	1.20	0.25	15.84
	Azizudheen Road MH 2550 to MH 2565	Cum	1	56.50	1.20	0.25	16.95
	Azizudheen Road	Carri		30.30	1.20	0.23	10.33
	MH 646 to MH 2565	Cum	1	52.10	1.20	0.25	15.63
	Azizudheen Road MH 315 to MH 2247	Cum	1	37.60	2.10	0.25	19.74
	Azizudheen Road	Cum		37.00	2.10	0.23	13.74
	MH 2239 to MH 2565	Cum	1	146.00	1.20	0.25	43.80
	Azizudheen Road MH 435 to MH 2243	Cum	1	34.10	1.20	0.25	10.23
	Azizudheen Road	Cuiii		34.10	1.20	0.23	10.23
	MH 2565 to MH 379	Cum	1	69.00	2.10	0.25	36.23
	Bunder Road and old Port Road	Cum	1	200.20	1 20	0.25	117.09
	MH 2548 to MH 2296 Azizudheen Road	Cum	1	390.30	1.20	0.23	117.09
	MH 2209 to MH 2521	Cum	1	85.90	1.20	0.25	25.77
	Old Port Road		4	07.20	4.20	0.25	26.40
	MH 2553 to MH 2558 Cross Road	Cum	1	87.30	1.20	0.25	26.19
	MH 930 to MH 2563	Cum	1	79.60	2.20	0.25	43.78
	Bunder Cross Road						
	MH 2520 to MH 2292 Cartstreet Road	Cum	1	107.20	1.20	0.25	32.16
	MH 1750 to MH 2525	Cum	1	197.40	1.20	0.25	59.22
	Lower Carstreet Road						
	MH 517 to MH 2508 Lower Carstreet Road	Cum	1	207.70	2.35	0.25	122.02
	MH 269 to MH 270	Cum	1	26.60	1.20	0.25	7.98
	Lower Carstreet Road						
	MH 1600 to MH 1624	Cum	1	422.00	2.10	0.25	221.55
	MH 1763 to MH 2539	Cum	1	48.60	1.20	0.25	14.58
	Basavana Gudi Street and Kandathpalli Road	00		10.00	1.120	0.20	
	MH 1194 to MH 1610	Cum	1	362.00	2.10	0.25	190.05
	Cross and Mochigali Road MH 715 to MH 1026	Cum	1	151.40	2.30	0.25	87.06
	Bibi Alabi Road	Cann	-	131.10	2.30	0:23	67.00
	MH 2259 to MH 2495	Cum	1	76.80	1.20	0.25	23.04
	MH 692 to O78	Cum	1	111.04	2.38	0.25	65.93
	Bibi Alabi Road	Cum		111.04	2.30	0.23	03.33
	MH 1138 to MH 2495	Cum	1	55.00	2.10	0.25	28.88
	Bunder and Ansari Road MH 2296 to MH 2544	Cum	1	347.30	2.10	0.25	182.33
	Ansari Cross Road	Cuili	1	347.30	2.10	0.23	102.33
	MH 709 to MH 710	Cum	1	56.50	2.30	0.25	32.49
	Ansari Road MH 2580 to MH 514	Cum	1	49.40	2.75	0.25	33.96
	Ansari Cross Road	Cuili	1	43.4U	2./3	0.25	33.90
	MH 2581 to MH 636	Cum	1	51.80	2.10	0.25	27.20
	Ansari Road	C	4	E4.00	2.10	0.35	20.25
	MH 648 TO MH 649 J M 2nd Cross Road	Cum	1	54.00	2.10	0.25	28.35
	MH 2542 TO O 76	Cum	1	172.90	1.20	0.25	51.87

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	J M 1st Cross Road	_					
	MH 2519 TO O 77 Bibi Alabi Road	Cum	1	88.80	2.10	0.25	46.62
	MH 2123 TO MH1247	Cum	1	62.40	1.20	0.25	18.72
	Kasa Gaddi Road			02.10	1.20	0.25	10:72
	MH 1030 to MH 2130	Cum	1	98.80	2.10	0.25	51.87
	J M 2nd Cross and GM Road						
	MH 2130 to MH 2567 GM Road	Cum	1	152.90	2.10	0.25	80.27
	MH 2589 to MH 2568	Cum	1	27.60	1.50	0.25	10.35
	J M 2nd Cross Road			27.00	2.55	0.25	20.00
	MH 2590 to MH 81	Cum	1	22.00	2.00	0.25	11.00
	J M 2nd Cross Road		_				
	MH 170 to MH 26 Urdu School Road	Cum	1	22.20	2.00	0.25	11.10
	MH 705 to MH 2133	Cum	1	59.00	1.20	0.25	17.70
	MPT Cross Road			33.00	1.20	0.23	27.70
	MH 1074 to MH 2546	Cum	1	115.50	1.20	0.25	34.65
	JM 5th Cross Road						
	MH 2350 to 0 73	Cum	1	80.70	1.20	0.25	24.21
	Kasa Gadi Cross Road MH 50 to MH 2128	Cum	1	16.20	2.50	0.25	10.13
	MPT Cross Road	Caill		10.20	2.50	0.23	10.13
	MH 957 to MH 958	Cum	1	86.50	2.10	0.25	45.41
	Azizudheen Road						
	MH 2575 to MH 2543	Cum	1	207.70	1.20	0.25	62.31
	JM 5th Cross and Kandathpalli west Road MH 2544 to MH 2571	Cum	1	169.50	2.10	0.25	99.00
	J M 5th Cross Road	Cum	1	109.50	2.10	0.25	88.99
	MH 398 to MH 399	Cum	1	32.70	2.10	0.25	17.17
	Kandathpalli West Road						
	MH 599 to MH 600	Cum	1	47.70	2.10	0.25	25.04
	Ansari Road	Constant	4	26.00	2.00	0.25	27.00
	MH 402 to MH 2326 Kandathpalli West Road	Cum	1	36.00	3.00	0.25	27.00
	MH 1211 to MH 2320	Cum	1	126.90	2.80	0.25	88.83
	Kandathpalli West Cross Road						
	MH 2576 to MH 2466	Cum	1	23.60	1.20	0.25	7.08
	Kandathpalli West Cross Road	Constant	4	00.70	2.40	0.25	42.27
	MH 2569 to MH 917 Kandathpalli West Road	Cum	1	80.70	2.10	0.25	42.37
	MH 1624 to MH 917	Cum	1	110.80	2.10	0.25	58.17
	Kandathpalli West Road		_			0.20	00.12.
	MH 917 to MH 773	Cum	1	38.60	2.18	0.25	20.99
	Lower Carstreet and Bhatkar Bazar Road						
	MH 2398 to MH 1619	Cum	1	316.90	2.10	0.25	166.37
	MH 287 to MH 288	Cum	1	40.50	2.20	0.25	22.28
	Shree Kalikamba Vinayaka Street	Carri		- 0.50	2.20	0.23	22.20
	MH 2522 to MH 2524	Cum	1	79.10	1.20	0.25	23.73
	Cross Road						
	MH 624 to MH 625	Cum	1	52.20	2.00	0.25	26.10
	MH 40 to MH 2408	Cum	1	15.40	2.00	0.25	7 70
	Cross Road	Cum	1	13.40	2.00	0.25	7.70
	MH 277 to MH 278	Cum	1	29.00	2.00	0.25	14.50
В	Zone 3 Part 1						
	Bridge Road	C	4	205.20	4 30	0.35	05.50
	MH-1264 to O-35	Cum Cum	1	285.30	1.20	0.25 Total	85.59 2726.15
A	Zone 4 Part 2	Cum				iolai	2/20.15
—	Only for Manhole portion						
	Old Port Road						
	MH 2551 to O92	Cum	2	2.00	2.00	0.25	2.00
	Azizudheen Road		2	2.00	2.00	2.25	2.22
	MH 2550 to MH 2565	Cum	2	2.00	2.00	0.25	2.00

<i>F</i>		UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	Azizudheen Road MH 646 to MH 2565	Cum	3	2.00	2.00	0.25	3.00
	Azizudheen Road	Cum	3	2.00	2.00	0.25	3.00
-	MH 315 to MH 2247	Cum	2	2.00	2.00	0.25	2.00
Į.	Azizudheen Road						
	MH 2239 to MH 2565	Cum	6	2.00	2.00	0.25	6.00
	Azizudheen Road		2	2.00	2.00	0.25	2.00
	MH 435 to MH 2243 Azizudheen Road	Cum	2	2.00	2.00	0.25	2.00
-	MH 2565 to MH 379	Cum	4	2.00	2.00	0.25	4.00
	Bunder Road and old Port Road		-			0.20	
Ŋ	MH 2548 to MH 2296	Cum	16	2.00	2.00	0.25	16.00
Į.	Azizudheen Road						
	MH 2209 to MH 2521	Cum	3	2.00	2.00	0.25	3.00
	Old Port Road MH 2553 to MH 2558	Cum	3	2.00	2.00	0.25	3.00
	Cross Road	Cuiii	3	2.00	2.00	0.23	3.00
	MH 930 to MH 2563	Cum	5	2.00	2.00	0.25	5.00
E	Bunder Cross Road						
	MH 2520 to MH 2292	Cum	3	2.00	2.00	0.25	3.00
	Cartstreet Road	_	-	·			
	MH 1750 to MH 2525	Cum	8	2.00	2.00	0.25	8.00
	Lower Carstreet Road MH 517 to MH 2508	Cum	11	2.00	2.00	0.25	11.00
	Lower Carstreet Road	Cum	11	2.00	2.00	0.23	11.00
	MH 269 to MH 270	Cum	2	2.00	2.00	0.25	2.00
L	Lower Carstreet Road						
ľ	MH 1600 to MH 1624	Cum	17	2.00	2.00	0.25	17.00
	Lower Carstreet Road						
	MH 1763 to MH 2539	Cum	2	2.00	2.00	0.25	2.00
	Basavana Gudi Street and Kandathpalli Road MH 1194 to MH 1610	Cum	14	2.00	2.00	0.25	14.00
	Cross and Mochigali Road	Cann	14	2.00	2.00	0.23	14.00
	MH 715 to MH 1026	Cum	8	2.00	2.00	0.25	8.00
E	Bibi Alabi Road						
	MH 2259 to MH 2495	Cum	3	2.00	2.00	0.25	3.00
	Bibi Alabi Road	Cura	7	2.00	2.00	0.25	7.00
	MH 692 to O78 Bibi Alabi Road	Cum	7	2.00	2.00	0.25	7.00
	MH 1138 to MH 2495	Cum	3	2.00	2.00	0.25	3.00
E	Bunder and Ansari Road						
N	MH 2296 to MH 2544	Cum	14	2.10	2.10	0.25	15.44
	Ansari Cross Road						
	MH 709 to MH 710	Cum	3	2.00	2.00	0.25	3.00
	Ansari Road MH 2580 to MH 514	Cum	2	2.30	2.30	0.25	2.65
	Ansari Cross Road	Cum	2	2.30	2.30	0.23	2.03
	MH 2581 to MH 636	Cum	2	2.00	2.00	0.25	2.00
Į.	Ansari Road						
	MH 648 TO MH 649	Cum	2	2.30	2.30	0.25	2.65
	J M 2nd Cross Road		_	2.22	2.22		
	MH 2542 TO O 76	Cum	5	2.00	2.00	0.25	5.00
	J M 1st Cross Road MH 2519 TO O 77	Cum	3	2.00	2.00	0.25	3.00
	Bibi Alabi Road	Carri	3	2.00	2.00	0.23	3.00
	MH 2123 TO MH1247	Cum	3	2.00	2.00	0.25	3.00
	Kasa Gaddi Road						
	MH 1030 to MH 2130	Cum	4	2.00	2.00	0.25	4.00
	MH 2120 to MH 2567	Comme	7	2.00	2.00	0.25	7.00
	MH 2130 to MH 2567 GM Road	Cum	7	2.00	2.00	0.25	7.00
	MH 2589 to MH 2568	Cum	1	2.00	2.00	0.25	1.00
	J M 2nd Cross Road	23.11				3.23	
<u> </u>	MH 2590 to MH 81	Cum	1	2.00	2.00	0.25	1.00
	J M 2nd Cross Road						
	MH 170 to MH 26	Cum	1	2.00	2.00	0.25	1.00
<u> </u>	Urdu School Road						

M M M M M M M M M M	MH 705 to MH 2133 MPT Cross Road MH 1074 to MH 2546 M 5th Cross Road MH 2350 to 0 73 asa Gadi Cross Road MH 50 to MH 2128 MPT Cross Road MH 957 to MH 958 zizudheen Road MH 2575 to MH 2543 M 5th Cross and Kandathpalli west Road MH 2544 to MH 2571 M 5th Cross Road MH 398 to MH 399 andathpalli West Road MH 599 to MH 600 insari Road MH 402 to MH 2326 andathpalli West Road MH 1211 to MH 2320 andathpalli West Cross Road MH 2576 to MH 2466	Cum	3 5 2 1 3 7 6 2 2	2.00 2.00 2.00 2.00 2.00 2.30 2.00	2.00 2.00 2.00 2.00 2.00 2.00 2.00	0.25 0.25 0.25 0.25 0.25 0.25	5.00 2.00 1.00 3.00 7.00
M	MH 1074 to MH 2546 M 5th Cross Road MH 2350 to 0 73 asa Gadi Cross Road MH 50 to MH 2128 MPT Cross Road MH 957 to MH 958 zizudheen Road MH 2575 to MH 2543 M 5th Cross and Kandathpalli west Road MH 2544 to MH 2571 M 5th Cross Road MH 398 to MH 399 andathpalli West Road MH 599 to MH 600 insari Road MH 402 to MH 2326 andathpalli West Road MH 1211 to MH 2320 andathpalli West Cross Road MH 1211 to MH 2320 andathpalli West Cross Road	Cum Cum Cum Cum Cum Cum Cum Cum	2 1 3 7 6 2	2.00 2.00 2.00 2.00 2.30 2.00	2.00 2.00 2.00 2.30 2.00	0.25 0.25 0.25 0.25	2.00 1.00 3.00 7.00
JN M Ka M M M M M M M M M	M 5th Cross Road AH 2350 to 0 73 asa Gadi Cross Road AH 50 to MH 2128 APT Cross Road AH 957 to MH 958 azizudheen Road AH 2575 to MH 2543 W 5th Cross and Kandathpalli west Road AH 2544 to MH 2571 M 5th Cross Road AH 398 to MH 399 andathpalli West Road AH 599 to MH 600 ansari Road AH 402 to MH 2326 andathpalli West Road AH 1211 to MH 2320 andathpalli West Cross Road	Cum Cum Cum Cum Cum Cum Cum Cum	2 1 3 7 6 2	2.00 2.00 2.00 2.00 2.30 2.00	2.00 2.00 2.00 2.30 2.00	0.25 0.25 0.25 0.25	2.00 1.00 3.00 7.00
M Ka M M Ka M M M M M M M M M	Alth 2350 to O 73 asa Gadi Cross Road Alth 50 to MH 2128 APT Cross Road Alth 957 to MH 958 zizudheen Road Alth 2575 to MH 2543 AV 5th Cross and Kandathpalli west Road Alth 2544 to MH 2571 AV 5th Cross Road Alth 398 to MH 399 andathpalli West Road Alth 599 to MH 600 ansari Road Alth 402 to MH 2326 andathpalli West Road Alth 1211 to MH 2320 andathpalli West Cross Road Alth 1211 to MH 2320 andathpalli West Cross Road	Cum Cum Cum Cum Cum Cum Cum	1 3 7 6 2	2.00 2.00 2.00 2.30 2.00	2.00 2.00 2.00 2.30 2.00	0.25 0.25 0.25 0.25	7.00 7.94
Ka M M M M M M M M M	asa Gadi Cross Road AH 50 to MH 2128 APT Cross Road AH 957 to MH 958 Azizudheen Road AH 2575 to MH 2543 AN 5th Cross and Kandathpalli west Road AH 2544 to MH 2571 AN 5th Cross Road AH 398 to MH 399 Andathpalli West Road AH 599 to MH 600 Ansari Road AH 402 to MH 2326 Andathpalli West Road AH 1211 to MH 2320 Andathpalli West Cross Road AH 1211 to MH 2320 Andathpalli West Cross Road	Cum Cum Cum Cum Cum Cum Cum	1 3 7 6 2	2.00 2.00 2.00 2.30 2.00	2.00 2.00 2.00 2.30 2.00	0.25 0.25 0.25 0.25	7.00 7.94
M	MH 50 to MH 2128 MPT Cross Road MH 957 to MH 958 Izizudheen Road MH 2575 to MH 2543 M 5th Cross and Kandathpalli west Road MH 2544 to MH 2571 M 5th Cross Road MH 398 to MH 399 andathpalli West Road MH 599 to MH 600 Insari Road MH 402 to MH 2326 andathpalli West Road MH 1211 to MH 2320 andathpalli West Cross Road	Cum Cum Cum Cum Cum	3 7 6 2	2.00 2.00 2.30 2.00	2.00 2.00 2.30 2.00	0.25 0.25 0.25	7.00 7.94
M	MPT Cross Road MH 957 to MH 958 zizudheen Road MH 2575 to MH 2543 W 5th Cross and Kandathpalli west Road MH 2544 to MH 2571 M 5th Cross Road MH 398 to MH 399 andathpalli West Road MH 599 to MH 600 nsari Road MH 402 to MH 2326 andathpalli West Road MH 1211 to MH 2320 andathpalli West Cross Road	Cum Cum Cum Cum Cum	3 7 6 2	2.00 2.00 2.30 2.00	2.00 2.00 2.30 2.00	0.25 0.25 0.25	7.00 7.94
M	Zizudheen Road AH 2575 to MH 2543 W 5th Cross and Kandathpalli west Road AH 2544 to MH 2571 M 5th Cross Road AH 398 to MH 399 andathpalli West Road AH 599 to MH 600 Insari Road AH 402 to MH 2326 andathpalli West Road AH 1211 to MH 2320 andathpalli West Cross Road	Cum Cum Cum Cum	7 6 2 2	2.00	2.00	0.25	7.00 7.94
Az M M M Ka M M M M M M M M M	Zizudheen Road AH 2575 to MH 2543 W 5th Cross and Kandathpalli west Road AH 2544 to MH 2571 M 5th Cross Road AH 398 to MH 399 andathpalli West Road AH 599 to MH 600 Insari Road AH 402 to MH 2326 andathpalli West Road AH 1211 to MH 2320 andathpalli West Cross Road	Cum Cum Cum Cum	7 6 2 2	2.00	2.00	0.25	7.00 7.94
M JN M Ka M M M M M M M M M	M 5th Cross and Kandathpalli west Road M 5th Cross Road M 5th Cross Road M 398 to MH 399 andathpalli West Road MH 599 to MH 600 Insari Road MH 402 to MH 2326 andathpalli West Road MH 1211 to MH 2320 andathpalli West Cross Road	Cum Cum Cum	2	2.30	2.30	0.25	7.94
JN M M Ka M M M M M M M M M	M 5th Cross and Kandathpalli west Road (H 2544 to MH 2571 M 5th Cross Road (H 398 to MH 399 andathpalli West Road (H 599 to MH 600 (nsari Road (H 402 to MH 2326 andathpalli West Road (H 1211 to MH 2320 andathpalli West Cross Road	Cum Cum Cum	2	2.30	2.30	0.25	7.94
M	M 5th Cross Road M 398 to MH 399 andathpalli West Road MH 599 to MH 600 Insari Road MH 402 to MH 2326 andathpalli West Road MH 1211 to MH 2320 andathpalli West Cross Road	Cum Cum	2	2.00	2.00		
J M Ka M M Ka M M Ka M M M M M M M M M	M 5th Cross Road (H 398 to MH 399 andathpalli West Road (H 599 to MH 600 nsari Road (H 402 to MH 2326 andathpalli West Road (H 1211 to MH 2320 andathpalli West Cross Road	Cum Cum	2	2.00	2.00		
M Ka M Ka M Ka M Ka	AH 398 to MH 399 andathpalli West Road AH 599 to MH 600 Insari Road AH 402 to MH 2326 andathpalli West Road AH 1211 to MH 2320 andathpalli West Cross Road	Cum	2			0.25	2.00
Ka M Ar M Ka M Ka M	andathpalli West Road (H 599 to MH 600 Insari Road (H 402 to MH 2326 andathpalli West Road (H 1211 to MH 2320 andathpalli West Cross Road	Cum	2			0.23	2.00
M At M Ka M Ka M Ka	IH 599 to MH 600 Insari Road IH 402 to MH 2326 Indathpalli West Road IH 1211 to MH 2320 Indathpalli West Cross Road	Cum		2.00	2.00		1
Ar M Ka M Ka M Ka	nsari Road 1H 402 to MH 2326 andathpalli West Road 1H 1211 to MH 2320 andathpalli West Cross Road	Cum		2.00	2.00	0.25	2.00
M Ka M Ka M Ka	AH 402 to MH 2326 andathpalli West Road AH 1211 to MH 2320 andathpalli West Cross Road		2		2.00	0.23	2.00
Ka M Ka M Ka	andathpalli West Road IH 1211 to MH 2320 andathpalli West Cross Road			2.00	2.00	0.25	2.00
M Ka M Ka	1H 1211 to MH 2320 andathpalli West Cross Road	Cum				5.25	2.00
M Ka M Ka	·		8	2.00	2.00	0.25	8.00
M Ka M Ka	·						
M Ka		Cum	1	2.00	2.00	0.25	1.00
Ka	andathpalli West Cross Road						
	1H 2569 to MH 917	Cum	3	2.10	2.10	0.25	3.31
	andathpalli West Road						
M	1H 1624 to MH 917	Cum	5	2.15	2.15	0.25	5.78
Ka	andathpalli West Road						
М	1H 917 to MH 773	Cum	2	2.30	2.30	0.25	2.65
Lo	ower Carstreet and Bhatkar Bazar Road						
	1H 2398 to MH 1619	Cum	14	2.00	2.00	0.25	14.00
	hatkar Bazar Cross Road						
	1H 287 to MH 288	Cum	2	2.00	2.00	0.25	2.00
	hree Kalikamba Vinayaka Street		_				
	1H 2522 to MH 2524	Cum	3	2.00	2.00	0.25	3.00
	ross Road	Cours	2	2.00	2.00	0.25	2.00
	1H 624 to MH 625	Cum	3	2.00	2.00	0.25	3.00
	ross Road 1H 40 to MH 2408	Cum	1	2.00	2.00	0.25	1.00
	ross Road	Cuiii	1	2.00	2.00	0.23	1.00
	1H 277 to MH 278	Cum	1	2.00	2.00	0.25	1.00
	11277 to 1411 270	Cann		2.00	2.00	0.23	1.00
B Zo	one 3 Part 1						
Bı	ridge Road						
	1H-1264 to O-35	Cum	13	2.00	2.00	0.25	13.00
H	ousehold						
Fc	or Household Connection- Zone 4 Part 2 (MH = 206Nos, L=5m X 4		222	10.00	0.00		222.25
СС	onnections in each manhole)-Road width >3m	Cum	206	10.00	0.60	0.25	309.00
Fc	or Household Connection- Zone 4 Part 2 (MH = 44Nos, L=5m X 4	_	_				
	onnections in each manhole)-Road width <3m	Cum	44	10.00	0.60	0.25	66.00
	or Household Connection- Zone 3 Part 1 (MH = 13Nos, L=5m X 4		4.5	40.55		2.5-	40
	onnections in each manhole)-Road width >3m	Cum	13	10.00	0.60	0.25	19.50
	·						
				Area (Pi*r*r)		
A Zo	one -4 (Part 2) and Zone -3 (Part 1)						
	ed Manhole top cover Dia 0.60m and base dia 1.2m	Cum	-243	0.283		0.25	-17.17
	ed Manhole top cover Dia 0.60m and base dia 1.5m	Cum	-20	0.283		0.25	-1.41
		Cum	I			0.25	-1.41

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including						
25	cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm						
	using mechanical means complete as per specifications. MORTH Specification No. 502						
	KSRB Pg No.161,Sl No:21.6						
Α	Zone 4 Part 2						
	Only for Pipe portion trench Old Port Road						
	MH 2551 to O92	Sqm	1	52.80	1.20		63.36
	Azizudheen Road MH 2550 to MH 2565	Sqm	1	56.50	1.20		67.80
	Azizudheen Road	Sqiii		30.30	1.20		07.80
	MH 646 to MH 2565	Sqm	1	52.10	1.20		62.52
	Azizudheen Road MH 315 to MH 2247	Sqm	1	37.60	2.10		78.96
	Azizudheen Road	Sqiii		37.00	2.10		78.90
	MH 2239 to MH 2565	Sqm	1	146.00	1.20		175.20
	Azizudheen Road MH 435 to MH 2243	Sqm	1	34.10	1.20		40.92
	Azizudheen Road	Sqiii		34.10	1.20		40.32
	MH 2565 to MH 379	Sqm	1	69.00	2.10		144.90
	Bunder Road and old Port Road MH 2548 to MH 2296	Sqm	1	390.30	1.20		468.36
	Azizudheen Road	Sqiii		390.30	1.20		408.30
	MH 2209 to MH 2521	Sqm	1	85.90	1.20		103.08
	Old Port Road MH 2553 to MH 2558	Sam	1	87.30	1.20		104.76
	Cross Road	Sqm		87.30	1.20		104.70
	MH 930 to MH 2563	Sqm	1	79.60	2.20		175.12
	MH 2520 to MH 2292	Sam	1	107.20	1.20		128.64
	Cartstreet Road	Sqm		107.20	1.20		120.04
	MH 1750 to MH 2525	Sqm	1	197.40	1.20		236.88
	Lower Carstreet Road MH 517 to MH 2508	Sam	1	207.70	2.35		488.10
	Lower Carstreet Road	Sqm		207.70	2.55		400.10
	MH 269 to MH 270	Sqm	1	26.60	1.20		31.92
	MH 1600 to MH 1624	Sqm	1	422.00	2.10		886.20
	Lower Carstreet Road	Sqiii		422.00	2.10		880.20
	MH 1763 to MH 2539	Sqm	1	48.60	1.20		58.32
	Basavana Gudi Street and Kandathpalli Road MH 1194 to MH 1610	Sqm	1	362.00	2.10		760.20
	Cross and Mochigali Road	Sqiii		302.00	2.10		700.20
	MH 715 to MH 1026	Sqm	1	151.40	2.30		348.22
	MH 2259 to MH 2495	Sqm	1	76.80	1.20		92.16
	Bibi Alabi Road	Sqiii		70.80	1.20		32.10
	MH 692 to O78	Sqm	1	111.04	2.38		263.72
	MH 1138 to MH 2495	Sqm	1	55.00	2.10		115.50
	Bunder and Ansari Road	Sqiii		33.00	2.10		113.50
	MH 2296 to MH 2544	Sqm	1	347.30	2.10		729.33
	Ansari Cross Road MH 709 to MH 710	Sqm	1	56.50	2.30		129.95
	Ansari Road			30.30	2.50		123.33
	MH 2580 to MH 514	Sqm	1	49.40	2.75		135.85
	Ansari Cross Road MH 2581 to MH 636	Sqm	1	51.80	2.10		108.78
	Ansari Road	~ Y'''		22.00	0		200.70
	MH 648 TO MH 649	Sqm	1	54.00	2.10		113.40
	J M 2nd Cross Road MH 2542 TO O 76	Sqm	1	172.90	1.20		207.48
	J M 1st Cross Road			1,2.50	1.20		207.40
	MH 2519 TO O 77	Sqm	1	88.80	2.10		186.48
	Bibi Alabi Road						

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH 2123 TO MH1247	Sqm	1	62.40	1.20		74.88
	Kasa Gaddi Road	·					
	MH 1030 to MH 2130	Sqm	1	98.80	2.10		207.48
	J M 2nd Cross and GM Road	94		00.00			
	MH 2130 to MH 2567	Sqm	1	152.90	2.10		321.09
	GM Road	Jagini		132.30	2.10		321.03
	MH 2589 to MH 2568	Sqm	1	27.60	1.50		41.40
	J M 2nd Cross Road	34111		27.00	1.50		71.70
	MH 2590 to MH 81	Sgm	1	22.00	2.00		44.00
	J M 2nd Cross Road	Sqiii	1	22.00	2.00		44.00
	MH 170 to MH 26	Causa	1	22.20	2.00		44.40
		Sqm	1	22.20	2.00		44.40
	Urdu School Road	6	4	50.00	4.20		70.00
	MH 705 to MH 2133	Sqm	1	59.00	1.20		70.80
	MPT Cross Road						
	MH 1074 to MH 2546	Sqm	1	115.50	1.20		138.60
	JM 5th Cross Road						
	MH 2350 to O 73	Sqm	1	80.70	1.20		96.84
	Kasa Gadi Cross Road						
	MH 50 to MH 2128	Sqm	1	16.20	2.50		40.50
	MPT Cross Road						
	MH 957 to MH 958	Sqm	1	86.50	2.10		181.65
	Azizudheen Road						
	MH 2575 to MH 2543	Sqm	1	207.70	1.20		249.24
	JM 5th Cross and Kandathpalli west Road						
	MH 2544 to MH 2571	Sqm	1	169.50	2.10		355.95
	J M 5th Cross Road						000.00
	MH 398 to MH 399	Sqm	1	32.70	2.10		68.67
	Kandathpalli West Road	39111	_	32.70	2.10		00.07
	MH 599 to MH 600	Sqm	1	47.70	2.10		100.17
	Ansari Road	Jan		47.70	2.10		100.17
	MH 402 to MH 2326	Sqm	1	36.00	3.00		108.00
	Kandathpalli West Road	34111		30.00	3.00		108.00
	MH 1211 to MH 2320	Carno	1	126.00	2.00		255 22
		Sqm	1	126.90	2.80		355.32
	Kandathpalli West Cross Road	Carre	4	22.60	4.20		20.22
	MH 2576 to MH 2466	Sqm	1	23.60	1.20		28.32
	Kandathpalli West Cross Road						
	MH 2569 to MH 917	Sqm	1	80.70	2.10		169.47
	Kandathpalli West Road						
	MH 1624 to MH 917	Sqm	1	110.80	2.10		232.68
	Kandathpalli West Road						
	MH 917 to MH 773	Sqm	1	38.60	2.18		83.96
	Lower Carstreet and Bhatkar Bazar Road						
	MH 2398 to MH 1619	Sqm	1	316.90	2.10		665.49
	Bhatkar Bazar Cross Road						
	MH 287 to MH 288	Sqm	1	40.50	2.20		89.10
	Shree Kalikamba Vinayaka Street						
	MH 2522 to MH 2524	Sqm	1	79.10	1.20		94.92
	Cross Road	<u> </u>					
	MH 624 to MH 625	Sqm	1	52.20	2.00		104.40
	Cross Road	74,,,					
	MH 40 to MH 2408	Sqm	1	15.40	2.00		30.80
	Cross Road	34111		13.70	2.00		30.00
	MH 277 to MH 278	Sqm	1	29.00	2.00		58.00
		July		23.00	2.00		36.00
	<u> </u>						

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
В	Zone 3 Part 1						
	Bridge Road	Carro	1	205.20	1 20		242.20
	MH-1264 to O-35	Sqm	1	285.30	1.20		342.36
Α	Zone 4 Part 2						
	Only for Manhole portion						
	Old Port Road				2.00		0.00
	MH 2551 to O92 Azizudheen Road	Sqm	2	2.00	2.00		8.00
	MH 2550 to MH 2565	Sqm	2	2.00	2.00		8.00
	Azizudheen Road	3 41.11					
	MH 646 to MH 2565	Sqm	3	2.00	2.00		12.00
	Azizudheen Road						
	MH 315 to MH 2247 Azizudheen Road	Sqm	2	2.00	2.00		8.00
	MH 2239 to MH 2565	Sqm	6	2.00	2.00		24.00
	Azizudheen Road	94		2.00	2.00		1 2
	MH 435 to MH 2243	Sqm	2	2.00	2.00		8.00
	Azizudheen Road						
	MH 2565 to MH 379	Sqm	4	2.00	2.00		16.00
	Bunder Road and old Port Road MH 2548 to MH 2296	Sqm	16	2.00	2.00		64.00
	Azizudheen Road	Jqiii	10	2.00	2.00		04.00
	MH 2209 to MH 2521	Sqm	3	2.00	2.00		12.00
	Old Port Road						
	MH 2553 to MH 2558	Sqm	3	2.00	2.00		12.00
	Cross Road MH 930 to MH 2563	Cam	5	2.00	2.00		20.00
	Bunder Cross Road	Sqm	3	2.00	2.00		20.00
	MH 2520 to MH 2292	Sqm	3	2.00	2.00		12.00
	Cartstreet Road	·					
	MH 1750 to MH 2525	Sqm	8	2.00	2.00		32.00
	Lower Carstreet Road		44	2.00	2.00		11.00
	MH 517 to MH 2508 Lower Carstreet Road	Sqm	11	2.00	2.00		44.00
	MH 269 to MH 270	Sqm	2	2.00	2.00		8.00
	Lower Carstreet Road	94	_				0.00
	MH 1600 to MH 1624	Sqm	17	2.00	2.00		68.00
	Lower Carstreet Road		_				
	MH 1763 to MH 2539	Sqm	2	2.00	2.00		8.00
	Basavana Gudi Street and Kandathpalli Road MH 1194 to MH 1610	Sqm	14	2.00	2.00		56.00
	Cross and Mochigali Road	Jqiii	14	2.00	2.00		30.00
	MH 715 to MH 1026	Sqm	8	2.00	2.00		32.00
	Bibi Alabi Road						
	MH 2259 to MH 2495	Sqm	3	2.00	2.00		12.00
	Bibi Alabi Road MH 692 to 078	Cam	7	2.00	2.00		20.00
	Bibi Alabi Road	Sqm	/	2.00	2.00		28.00
	MH 1138 to MH 2495	Sqm	3	2.00	2.00		12.00
	Bunder and Ansari Road	·					
	MH 2296 to MH 2544	Sqm	14	2.10	2.10		61.74
	Ansari Cross Road	Carra	2	2.00	2.00		42.00
	MH 709 to MH 710 Ansari Road	Sqm	3	2.00	2.00		12.00
	MH 2580 to MH 514	Sqm	2	2.30	2.30		10.58
	Ansari Cross Road	94			2.55		10.50
	MH 2581 to MH 636	Sqm	2	2.00	2.00		8.00
	Ansari Road		_		2		
	MH 648 TO MH 649 LM 2nd Cross Pood	Sqm	2	2.30	2.30		10.58
	J M 2nd Cross Road MH 2542 TO O 76	Sqm	5	2.00	2.00		20.00
	J M 1st Cross Road	JqIII		2.00	2.00		20.00
	MH 2519 TO 0 77	Sqm	3	2.00	2.00		12.00
	Bibi Alabi Road						
	MH 2123 TO MH1247	Sqm	3	2.00	2.00		12.00
	Kasa Gaddi Road						

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH 1030 to MH 2130	Sqm	4	2.00	2.00		16.00
	J M 2nd Cross and GM Road						
	MH 2130 to MH 2567	Sqm	7	2.00	2.00		28.00
	GM Road						
	MH 2589 to MH 2568	Sqm	1	2.00	2.00		4.00
	J M 2nd Cross Road				2.22		
	MH 2590 to MH 81	Sqm	1	2.00	2.00		4.00
	J M 2nd Cross Road MH 170 to MH 26	Causa	1	2.00	2.00		4.00
	Urdu School Road	Sqm	1	2.00	2.00		4.00
	MH 705 to MH 2133	Sqm	3	2.00	2.00		12.00
	MPT Cross Road	34111	3	2.00	2.00		12.00
	MH 1074 to MH 2546	Sqm	5	2.00	2.00		20.00
	JM 5th Cross Road	94					
	MH 2350 to O 73	Sqm	2	2.00	2.00		8.00
	Kasa Gadi Cross Road	<u>'</u>					
	MH 50 to MH 2128	Sqm	1	2.00	2.00		4.00
	MPT Cross Road						
	MH 957 to MH 958	Sqm	3	2.00	2.00		12.00
	Azizudheen Road						
	MH 2575 to MH 2543	Sqm	7	2.00	2.00		28.00
	JM 5th Cross and Kandathpalli west Road						
	MH 2544 to MH 2571	Sqm	6	2.30	2.30		31.74
	J M 5th Cross Road						
	MH 398 to MH 399	Sqm	2	2.00	2.00		8.00
	Kandathpalli West Road						
	MH 599 to MH 600	Sqm	2	2.00	2.00		8.00
	Ansari Road				2.22		0.00
	MH 402 to MH 2326	Sqm	2	2.00	2.00		8.00
	Kandathpalli West Road	Causa	0	2.00	2.00		22.00
	MH 1211 to MH 2320	Sqm	8	2.00	2.00		32.00
	Kandathpalli West Cross Road MH 2576 to MH 2466	Sam	1	2.00	2.00		4.00
	Kandathpalli West Cross Road	Sqm	1	2.00	2.00		4.00
	MH 2569 to MH 917	Sqm	3	2.10	2.10		13.23
	Kandathpalli West Road	34111		2.10	2.10		13.23
	MH 1624 to MH 917	Sqm	5	2.15	2.15		23.11
	Kandathpalli West Road	94					
	MH 917 to MH 773	Sqm	2	2.30	2.30		10.58
	Lower Carstreet and Bhatkar Bazar Road	'					
	MH 2398 to MH 1619	Sqm	14	2.00	2.00		56.00
	Bhatkar Bazar Cross Road						
	MH 287 to MH 288	Sqm	2	2.00	2.00		8.00
	Shree Kalikamba Vinayaka Street						
	MH 2522 to MH 2524	Sqm	3	2.00	2.00		12.00
	Cross Road						
	MH 624 to MH 625	Sqm	3	2.00	2.00		12.00
	Cross Road						
	MH 40 to MH 2408	Sqm	1	2.00	2.00		4.00
	Cross Road						
	MH 277 to MH 278	Sqm	1	2.00	2.00		4.00
	T 2 D 14						
В	Zone 3 Part 1						
	Bridge Road		4.0	2.00	2.00		F0.00
	MH-1264 to O-35	Sqm	13	2.00	2.00		52.00
	For Household Connection, Zone 4 Part 2 (MILL, 2008) and 5 Fee V 4						
	For Household Connection- Zone 4 Part 2 (MH = 206Nos, L=5m X 4 connections in each manhole)-Road width >3m	Sqm	206	10.00	0.60		1236.00
	· · · · · · · · · · · · · · · · · · ·						
	For Household Connection- Zone 4 Part 2 (MH = 44Nos, L=5m X 4	Sqm	44	10.00	0.60		264.00
	connections in each manhole)-Road width <3m For Household Connection- Zone 3 Part 1 (MH = 13Nos, L=5m X 4						
	•	Sqm	13	10.00	0.60		78.00
	connections in each manhole)-Road width >3m			_	_		•

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
Α	Zone -4 (Part 2) and Zone -3 (Part 1)						
	Ded Manhole top cover Dia 0.60m and base dia 1.2m	Sqm	-243		283		-68.67
	Ded Manhole top cover Dia 0.60m and base dia 1.5m	Sqm	-20	0.2	283		-5.65
		Sqm				Total	13485.83
		<u> </u>				Total	15405.05
26	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant 40/60 TPH capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 / 75 mm compacted thickness with 3.4% bitumen but excluding cost of primer/tack coat with all lead and lift including cost of materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5, using 60/70 grade bitumen, Including environmental and social safe guards, including all taxes, as directed by the Engineer-in-Charge etc., complete. 50mm thick KSRRB Pg No.162,Sl No. 21.11.6						
	Only for Pipe portion trench						
Α	Zone 4 Part 2						
	Old Port Road		4	F2 62	4.00	2.25	2.15
	MH 2551 to O92 Azizudheen Road	Cum	1	52.80	1.20	0.05	3.17
	MH 2550 to MH 2565	Cum	1	56.50	1.20	0.05	3.39
	Azizudheen Road		_	00.00			0.00
	MH 646 to MH 2565	Cum	1	52.10	1.20	0.05	3.13
	Azizudheen Road			27.60	0.10	2.25	2.05
	MH 315 to MH 2247 Azizudheen Road	Cum	1	37.60	2.10	0.05	3.95
	MH 2239 to MH 2565	Cum	1	146.00	1.20	0.05	8.76
	Azizudheen Road		_				0.70
	MH 435 to MH 2243	Cum	1	34.10	1.20	0.05	2.05
	Azizudheen Road	Civin	4	60.00	2.40	0.05	7.25
	MH 2565 to MH 379 Bunder Road and old Port Road	Cum	1	69.00	2.10	0.05	7.25
	MH 2548 to MH 2296	Cum	1	390.30	1.20	0.05	23.42
	Azizudheen Road						
	MH 2209 to MH 2521	Cum	1	85.90	1.20	0.05	5.15
	Old Port Road MH 2553 to MH 2558	Cum	1	87.30	1.20	0.05	5.24
	Cross Road	Cum	1	87.30	1.20	0.05	5.24
	MH 930 to MH 2563	Cum	1	79.60	2.20	0.05	8.76
	Bunder Cross Road						
	MH 2520 to MH 2292	Cum	1	107.20	1.20	0.05	6.43
	MH 1750 to MH 2525	Cum	1	197.40	1.20	0.05	11.84
	Lower Carstreet Road	Cann		137.40	1.20	0.03	11.04
	MH 517 to MH 2508	Cum	1	207.70	2.35	0.05	24.40
	Lower Carstreet Road						
	MH 269 to MH 270	Cum	1	26.60	1.20	0.05	1.60
	MH 1600 to MH 1624	Cum	1	422.00	2.10	0.05	44.31
	Lower Carstreet Road	Cuiii		422.00	2.10	0.03	44.51
	MH 1763 to MH 2539	Cum	1	48.60	1.20	0.05	2.92
	Basavana Gudi Street and Kandathpalli Road						
	MH 1194 to MH 1610	Cum	1	362.00	2.10	0.05	38.01
	Cross and Mochigali Road MH 715 to MH 1026	Cum	1	151.40	2.30	0.05	17.41
	Bibi Alabi Road	33,11			2.55	0.03	17.71
	MH 2259 to MH 2495	Cum	1	76.80	1.20	0.05	4.61
	Bibi Alabi Road						
	MH 692 to O78	Cum	1	111.04	2.38	0.05	13.19
	MH 1138 to MH 2495	Cum	1	55.00	2.10	0.05	5.78
	Bunder and Ansari Road	Cuili		JJ.00	۷.10	0.03	3.78

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH 2296 to MH 2544	Cum	1	347.30	2.10	0.05	36.47
	Ansari Cross Road	Course	4	56.50	2.20	0.05	6.50
	MH 709 to MH 710 Ansari Road	Cum	1	56.50	2.30	0.05	6.50
	MH 2580 to MH 514	Cum	1	49.40	2.75	0.05	6.79
	Ansari Cross Road						
	MH 2581 to MH 636	Cum	1	51.80	2.10	0.05	5.44
	Ansari Road MH 648 TO MH 649	Cum	1	54.00	2.10	0.05	5.67
	J M 2nd Cross Road	Cum		31.00	2.10	0.03	3.07
	MH 2542 TO O 76	Cum	1	172.90	1.20	0.05	10.37
	J M 1st Cross Road	Corre	4	00.00	2.40	0.05	0.22
	MH 2519 TO O 77 Bibi Alabi Road	Cum	1	88.80	2.10	0.05	9.32
	MH 2123 TO MH1247	Cum	1	62.40	1.20	0.05	3.74
	Kasa Gaddi Road						
	MH 1030 to MH 2130	Cum	1	98.80	2.10	0.05	10.37
	J M 2nd Cross and GM Road MH 2130 to MH 2567	Cum	1	152.90	2.10	0.05	16.05
	GM Road	Cuili		132.30	2.10	0.03	10.03
	MH 2589 to MH 2568	Cum	1	27.60	1.50	0.05	2.07
	J M 2nd Cross Road						
	MH 2590 to MH 81	Cum	1	22.00	2.00	0.05	2.20
	J M 2nd Cross Road MH 170 to MH 26	Cum	1	22.20	2.00	0.05	2.22
	Urdu School Road	Cum			2.00	0.03	
	MH 705 to MH 2133	Cum	1	59.00	1.20	0.05	3.54
	MPT Cross Road		4	115.50	1.20	0.05	6.00
	MH 1074 to MH 2546 JM 5th Cross Road	Cum	1	115.50	1.20	0.05	6.93
	MH 2350 to O 73	Cum	1	80.70	1.20	0.05	4.84
	Kasa Gadi Cross Road						
	MH 50 to MH 2128	Cum	1	16.20	2.50	0.05	2.03
	MPT Cross Road	Cum	1	86.50	2.10	0.05	0.00
	MH 957 to MH 958 Azizudheen Road	Cuili	1	80.30	2.10	0.05	9.08
	MH 2575 to MH 2543	Cum	1	207.70	1.20	0.05	12.46
	JM 5th Cross and Kandathpalli west Road						
	MH 2544 to MH 2571	Cum	1	169.50	2.10	0.05	17.80
	J M 5th Cross Road MH 398 to MH 399	Cum	1	32.70	2.10	0.05	3.43
	Kandathpalli West Road	Cum		32.70	2.10	0.03	3.43
	MH 599 to MH 600	Cum	1	47.70	2.10	0.05	5.01
	Ansari Road			22.22	2.22	2.25	
	MH 402 to MH 2326 Kandathpalli West Road	Cum	1	36.00	3.00	0.05	5.40
	MH 1211 to MH 2320	Cum	1	126.90	2.80	0.05	17.77
	Kandathpalli West Cross Road						
	MH 2576 to MH 2466	Cum	1	23.60	1.20	0.05	1.42
	Kandathpalli West Cross Road	Cure	1	90.70	2.10	0.05	0.47
	MH 2569 to MH 917 Kandathpalli West Road	Cum	1	80.70	2.10	0.05	8.47
	MH 1624 to MH 917	Cum	1	110.80	2.10	0.05	11.63
	Kandathpalli West Road						
	MH 917 to MH 773	Cum	1	38.60	2.18	0.05	4.20
	Lower Carstreet and Bhatkar Bazar Road MH 2398 to MH 1619	Cum	1	316.90	2.10	0.05	33.27
	Bhatkar Bazar Cross Road	Cuili		310.30	2.10	0.05	33.47
	MH 287 to MH 288	Cum	1	40.50	2.20	0.05	4.46
	Shree Kalikamba Vinayaka Street						
	MH 2522 to MH 2524	Cum	1	79.10	1.20	0.05	4.75
	Cross Road MH 624 to MH 625	Cum	1	52.20	2.00	0.05	5.22
	Cross Road	Cuili		32.20	2.00	0.03	3.22
	MH 40 to MH 2408	Cum	1	15.40	2.00	0.05	1.54
	Cross Road						
	MH 277 to MH 278	Cum	1	29.00	2.00	0.05	2.90

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
В	Zone 3 Part 1						
	Bridge Road						
	MH-1264 to O-35	Cum	1	285.30	1.20	0.05	17.12
	Only for Manhole portion						
A	Zone 4 Part 2 Old Port Road						
	MH 2551 to O92	Cum	2	2.00	2.00	0.05	0.40
	Azizudheen Road						
	MH 2550 to MH 2565	Cum	2	2.00	2.00	0.05	0.40
	Azizudheen Road	-	2	2.00	2.00	0.05	0.60
	MH 646 to MH 2565 Azizudheen Road	Cum	3	2.00	2.00	0.05	0.60
	MH 315 to MH 2247	Cum	2	2.00	2.00	0.05	0.40
	Azizudheen Road						
	MH 2239 to MH 2565	Cum	6	2.00	2.00	0.05	1.20
	Azizudheen Road			2.00	2.22	2.25	2.40
	MH 435 to MH 2243 Azizudheen Road	Cum	2	2.00	2.00	0.05	0.40
	MH 2565 to MH 379	Cum	4	2.00	2.00	0.05	0.80
	Bunder Road and old Port Road		•			2.03	0.00
	MH 2548 to MH 2296	Cum	16	2.00	2.00	0.05	3.20
	Azizudheen Road						
	MH 2209 to MH 2521	Cum	3	2.00	2.00	0.05	0.60
	Old Port Road MH 2553 to MH 2558	Cum	3	2.00	2.00	0.05	0.60
	Cross Road	Cuin		2.00	2.00	0.03	0.00
	MH 930 to MH 2563	Cum	5	2.00	2.00	0.05	1.00
	Bunder Cross Road						
	MH 2520 to MH 2292	Cum	3	2.00	2.00	0.05	0.60
	Cartstreet Road	Curro		2.00	2.00	0.05	1.60
	MH 1750 to MH 2525 Lower Carstreet Road	Cum	8	2.00	2.00	0.05	1.60
	MH 517 to MH 2508	Cum	11	2.00	2.00	0.05	2.20
	Lower Carstreet Road						
	MH 269 to MH 270	Cum	2	2.00	2.00	0.05	0.40
	Lower Carstreet Road		47	2.00	2.00	2.25	2.40
	MH 1600 to MH 1624 Lower Carstreet Road	Cum	17	2.00	2.00	0.05	3.40
	MH 1763 to MH 2539	Cum	2	2.00	2.00	0.05	0.40
	Basavana Gudi Street and Kandathpalli Road	1					0110
	MH 1194 to MH 1610	Cum	14	2.00	2.00	0.05	2.80
	Cross and Mochigali Road						
	MH 715 to MH 1026	Cum	8	2.00	2.00	0.05	1.60
	MH 2259 to MH 2495	Cum	3	2.00	2.00	0.05	0.60
	Bibi Alabi Road	Carri		2.00	2.00	0.03	0.00
	MH 692 to O78	Cum	7	2.00	2.00	0.05	1.40
	Bibi Alabi Road						
	MH 1138 to MH 2495	Cum	3	2.00	2.00	0.05	0.60
	Bunder and Ansari Road	Cum	1.4	2.10	2.10	0.05	2.00
	MH 2296 to MH 2544 Ansari Cross Road	Cum	14	2.10	2.10	0.05	3.09
	MH 709 to MH 710	Cum	3	2.00	2.00	0.05	0.60
	Ansari Road						
	MH 2580 to MH 514	Cum	2	2.30	2.30	0.05	0.53
	Ansari Cross Road		2	2.00	2.00	2.25	2
	MH 2581 to MH 636 Ansari Road	Cum	2	2.00	2.00	0.05	0.40
	MH 648 TO MH 649	Cum	2	2.30	2.30	0.05	0.53
	J M 2nd Cross Road	Carri		2.55	2.55	0.03	0.55
	MH 2542 TO O 76	Cum	5	2.00	2.00	0.05	1.00
	J M 1st Cross Road						
	MH 2519 TO O 77	Cum	3	2.00	2.00	0.05	0.60
	MH 2123 TO MH1247	Cum	3	2.00	2.00	0.05	0.60
	INILITATO IO INILITATI	I Cuili	<u> </u>	2.00	2.00	0.05	J 0.60

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
—	Kasa Gaddi Road	_					
	MH 1030 to MH 2130 J M 2nd Cross and GM Road	Cum	4	2.00	2.00	0.05	0.80
<u> </u>	MH 2130 to MH 2567	Cum	7	2.00	2.00	0.05	1.40
-	GM Road		•	2.00	2.00	0.03	1.10
	MH 2589 to MH 2568	Cum	1	2.00	2.00	0.05	0.20
-	J M 2nd Cross Road						
_	MH 2590 to MH 81	Cum	1	2.00	2.00	0.05	0.20
—	J M 2nd Cross Road MH 170 to MH 26	Cum	1	2.00	2.00	0.05	0.20
-	Urdu School Road	Cum		2.00	2.00	0.03	0.20
	MH 705 to MH 2133	Cum	3	2.00	2.00	0.05	0.60
	MPT Cross Road						
	MH 1074 to MH 2546	Cum	5	2.00	2.00	0.05	1.00
	JM 5th Cross Road MH 2350 to O 73	Cum	2	2.00	2.00	0.05	0.40
	Kasa Gadi Cross Road	Cum		2.00	2.00	0.03	0.40
	MH 50 to MH 2128	Cum	1	2.00	2.00	0.05	0.20
	MPT Cross Road						
\vdash	MH 957 to MH 958	Cum	3	2.00	2.00	0.05	0.60
	Azizudheen Road			2.00	2.00	0.55	
	MH 2575 to MH 2543	Cum	7	2.00	2.00	0.05	1.40
	JM 5th Cross and Kandathpalli west Road MH 2544 to MH 2571	Cum	6	2.30	2.30	0.05	1.59
\vdash	J M 5th Cross Road	Cum	<u> </u>	2.30	2.30	0.03	1.55
	MH 398 to MH 399	Cum	2	2.00	2.00	0.05	0.40
	Kandathpalli West Road						
	MH 599 to MH 600	Cum	2	2.00	2.00	0.05	0.40
\vdash	Ansari Road	Course		2.00	2.00	0.05	0.40
	MH 402 to MH 2326 Kandathpalli West Road	Cum	2	2.00	2.00	0.05	0.40
	MH 1211 to MH 2320	Cum	8	2.00	2.00	0.05	1.60
	Kandathpalli West Cross Road	Cum		2.00	2.00	0.03	1.00
	MH 2576 to MH 2466	Cum	1	2.00	2.00	0.05	0.20
	Kandathpalli West Cross Road						
	MH 2569 to MH 917	Cum	3	2.10	2.10	0.05	0.66
	MH 1624 to MH 917	Cum	5	2.15	2.15	0.05	1.16
\vdash	Kandathpalli West Road	Cum	3	2.15	2.15	0.03	1.10
	MH 917 to MH 773	Cum	2	2.30	2.30	0.05	0.53
	Lower Carstreet and Bhatkar Bazar Road						
	MH 2398 to MH 1619	Cum	14	2.00	2.00	0.05	2.80
	Bhatkar Bazar Cross Road						
\vdash	MH 287 to MH 288	Cum	2	2.00	2.00	0.05	0.40
	Shree Kalikamba Vinayaka Street MH 2522 to MH 2524	Cum	3	2.00	2.00	0.05	0.60
	Cross Road	Carri	<u> </u>	2.00	2.00	0.03	0.00
	MH 624 to MH 625	Cum	3	2.00	2.00	0.05	0.60
	Cross Road						
	MH 40 to MH 2408	Cum	1	2.00	2.00	0.05	0.20
\vdash	Cross Road	Comme	4	2.00	2.00	0.05	0.00
\vdash	MH 277 to MH 278	Cum	1	2.00	2.00	0.05	0.20
В	Zone 3 Part 1						
	Bridge Road						
	MH-1264 to O-35	Cum	13	2.00	2.00	0.05	2.60
	For Household Connection- Zone 4 Part 2 (MH = 206Nos, L=5m X 4	Cum	206	10.00	0.60	0.05	61.80
	connections in each manhole)-Road width >3m					2.03	
	For Household Connection- Zone 4 Part 2 (MH = 44Nos, L=5m X 4	Cum	44	10.00	0.60	0.05	13.20
	connections in each manhole)-Road width <3m					2.03	
	For Household Connection- Zone 3 Part 1 (MH = 13Nos, L=5m X 4	Cum	13	10.00	0.60	0.05	3.90
	connections in each manhole)-Road width >3m	ļ					
\vdash		-		Area	Pi*r*r)		
A	Zone -4 (Part 2) and Zone -3 (Part 1)			AIEa (,		
	Ded Manhole top cover Dia 0.60m and base dia 1.2m	Cum	-243	0.2	283	0.05	-3.43

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	Ded Manhole top cover Dia 0.60m and base dia 1.5m	Cum	-20	0.2	283	0.05	-0.28
		Cum				Total	674.29
						Total	074123
	KSRRB 500-7. Providing and applying tack coat using 80/100 grade						
	bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10						
27	sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of						
	machineries complete as per specifications. MORTH/Chapter 5						
	KSRB Pg No.160,SI No:21.7 Rev Rate-18.12.2017						
Α	Zone 4 Part 2						
	Only for Pipe portion trench						
	Old Port Road		4	52.00	4.20		62.26
	MH 2551 to O92 Azizudheen Road	Sqm	1	52.80	1.20		63.36
	MH 2550 to MH 2565	Sqm	1	56.50	1.20		67.80
	Azizudheen Road	5 4	_	00.00			
	MH 646 to MH 2565	Sqm	1	52.10	1.20		62.52
	Azizudheen Road		_				
	MH 315 to MH 2247	Sqm	1	37.60	2.10		78.96
	Azizudheen Road MH 2239 to MH 2565	Sqm	1	146.00	1.20		175.20
	Azizudheen Road	34111		140.00	1.20		175.20
	MH 435 to MH 2243	Sqm	1	34.10	1.20		40.92
	Azizudheen Road						
	MH 2565 to MH 379	Sqm	1	69.00	2.10		144.90
	Bunder Road and old Port Road MH 2548 to MH 2296	Sqm	1	390.30	1.20		468.36
	Azizudheen Road	34111		390.30	1.20		408.50
	MH 2209 to MH 2521	Sqm	1	85.90	1.20		103.08
	Old Port Road						
	MH 2553 to MH 2558	Sqm	1	87.30	1.20		104.76
	Cross Road MH 930 to MH 2563	Cam	1	70.60	2.20		175 13
	Bunder Cross Road	Sqm	1	79.60	2.20		175.12
	MH 2520 to MH 2292	Sqm	1	107.20	1.20		128.64
	Cartstreet Road						
	MH 1750 to MH 2525	Sqm	1	197.40	1.20		236.88
	Lower Carstreet Road	6.000	4	207.70	2.25		400.40
	MH 517 to MH 2508 Lower Carstreet Road	Sqm	1	207.70	2.35		488.10
	MH 269 to MH 270	Sqm	1	26.60	1.20		31.92
	Lower Carstreet Road	5 9111	_				
	MH 1600 to MH 1624	Sqm	1	422.00	2.10		886.20
	Lower Carstreet Road						
	MH 1763 to MH 2539	Sqm	1	48.60	1.20		58.32
	Basavana Gudi Street and Kandathpalli Road MH 1194 to MH 1610	Sqm	1	362.00	2.10		760.20
	Cross and Mochigali Road		_	002.00			7 00120
	MH 715 to MH 1026	Sqm	1	151.40	2.30		348.22
	Bibi Alabi Road						
	MH 2259 to MH 2495	Sqm	1	76.80	1.20		92.16
	Bibi Alabi Road MH 692 to 078	Sqm	1	111.04	2.38		263.72
	Bibi Alabi Road	34111		111.04	2.30		203.72
	MH 1138 to MH 2495	Sqm	1	55.00	2.10		115.50
	Bunder and Ansari Road						
	MH 2296 to MH 2544	Sqm	1	347.30	2.10		729.33
	Ansari Cross Road MH 709 to MH 710	Sam	1	56.50	2.30		129.95
	Ansari Road	Sqm	<u> </u>	J0.3U	2.30		129.95
	MH 2580 to MH 514	Sqm	1	49.40	2.75		135.85
	Ansari Cross Road						_
	MH 2581 to MH 636	Sqm	1	51.80	2.10		108.78
	Ansari Road	C =====	4	E4.00	2.40		442.40
	MH 648 TO MH 649 I M 2nd Cross Road	Sqm	1	54.00	2.10		113.40
	J M 2nd Cross Road						

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH 2542 TO O 76	Sqm	1	172.90	1.20		207.48
	J M 1st Cross Road	_					
	MH 2519 TO 0 77	Sqm	1	88.80	2.10		186.48
	Bibi Alabi Road MH 2123 TO MH1247	Sam	1	62.40	1.20		74.88
	Kasa Gaddi Road	Sqm	1	02.40	1.20		74.00
	MH 1030 to MH 2130	Sqm	1	98.80	2.10		207.48
	J M 2nd Cross and GM Road	54		50.00			
	MH 2130 to MH 2567	Sqm	1	152.90	2.10		321.09
	GM Road						
	MH 2589 to MH 2568	Sqm	1	27.60	1.50		41.40
	J M 2nd Cross Road						
	MH 2590 to MH 81	Sqm	1	22.00	2.00		44.00
	J M 2nd Cross Road MH 170 to MH 26	Causa	1	22.20	2.00		44.4
	Urdu School Road	Sqm	1	22.20	2.00		44.40
	MH 705 to MH 2133	Sqm	1	59.00	1.20		70.80
	MPT Cross Road	Sqiii		33.00	1.20		70.00
	MH 1074 to MH 2546	Sqm	1	115.50	1.20		138.60
	JM 5th Cross Road	1	-				
	MH 2350 to O 73	Sqm	1	80.70	1.20		96.84
	Kasa Gadi Cross Road						
	MH 50 to MH 2128	Sqm	1	16.20	2.50		40.50
	MPT Cross Road						
	MH 957 to MH 958	Sqm	1	86.50	2.10		181.65
	Azizudheen Road	_					
	MH 2575 to MH 2543	Sqm	1	207.70	1.20		249.24
	JM 5th Cross and Kandathpalli west Road	C		160.50	2.40		255.01
	MH 2544 to MH 2571 J M 5th Cross Road	Sqm	1	169.50	2.10		355.95
	MH 398 to MH 399	Sqm	1	32.70	2.10		68.67
	Kandathpalli West Road	Sqiii		32.70	2.10		08.07
	MH 599 to MH 600	Sqm	1	47.70	2.10		100.17
	Ansari Road	54					
	MH 402 to MH 2326	Sqm	1	36.00	3.00		108.00
	Kandathpalli West Road						
	MH 1211 to MH 2320	Sqm	1	126.90	2.80		355.32
	Kandathpalli West Cross Road						
	MH 2576 to MH 2466	Sqm	1	23.60	1.20		28.32
	Kandathpalli West Cross Road	_	_				
	MH 2569 to MH 917	Sqm	1	80.70	2.10		169.47
	Kandathpalli West Road MH 1624 to MH 917	Carra		110.00	2.10		222.60
	Kandathpalli West Road	Sqm	1	110.80	2.10		232.68
	MH 917 to MH 773	Sqm	1	38.60	2.18		83.96
	Lower Carstreet and Bhatkar Bazar Road	34111		30.00	2.10		03.50
	MH 2398 to MH 1619	Sqm	1	316.90	2.10		665.49
	Bhatkar Bazar Cross Road	1	-				232.76
	MH 287 to MH 288	Sqm	1	40.50	2.20		89.10
	Shree Kalikamba Vinayaka Street						
	MH 2522 to MH 2524	Sqm	1	79.10	1.20		94.92
	Cross Road						
	MH 624 to MH 625	Sqm	1	52.20	2.00		104.40
	Cross Road			45.10	2.22		25.5
	MH 40 to MH 2408	Sqm	1	15.40	2.00		30.80
	Cross Road MH 277 to MH 278	Sqm	1	29.00	2.00		58.00
	14111 2// CO 14111 2/O	Jyiii	<u>_</u>	23.00	2.00		36.00
В	Zone 3 Part 1						
_	Bridge Road						
	MH-1264 to O-35	Sqm	1	285.30	1.20		342.30
		<u>'</u>					
Α	Zone 4 Part 2						
	Only for Manhole portion						
	Old Port Road						
	MH 2551 to O92	Sqm	2	2.00	2.00		8.00
	Azizudheen Road						

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH 2550 to MH 2565	Sqm	2	2.00	2.00		8.00
	Azizudheen Road						
	MH 646 to MH 2565	Sqm	3	2.00	2.00		12.00
	Azizudheen Road	Cam	2	2.00	2.00		8.00
	MH 315 to MH 2247 Azizudheen Road	Sqm	2	2.00	2.00		8.00
	MH 2239 to MH 2565	Sqm	6	2.00	2.00		24.00
	Azizudheen Road	Jqm	J	2.00	2.00		2 1.00
	MH 435 to MH 2243	Sqm	2	2.00	2.00		8.00
	Azizudheen Road						
	MH 2565 to MH 379	Sqm	4	2.00	2.00		16.00
	Bunder Road and old Port Road						
	MH 2548 to MH 2296	Sqm	16	2.00	2.00		64.00
	Azizudheen Road	Carra	2	2.00	2.00		12.00
	MH 2209 to MH 2521 Old Port Road	Sqm	3	2.00	2.00		12.00
	MH 2553 to MH 2558	Sqm	3	2.00	2.00		12.00
	Cross Road	Jan		2.00	2.00		12.00
	MH 930 to MH 2563	Sqm	5	2.00	2.00		20.00
	Bunder Cross Road						
	MH 2520 to MH 2292	Sqm	3	2.00	2.00		12.00
	Cartstreet Road				0.00		
	MH 1750 to MH 2525	Sqm	8	2.00	2.00		32.00
	Lower Carstreet Road						
	MH 517 to MH 2508	Sqm	11	2.00	2.00		44.00
	Lower Carstreet Road				2.22		2.00
	MH 269 to MH 270	Sqm	2	2.00	2.00		8.00
	MH 1600 to MH 1624	Cam	17	2.00	2.00		68.00
	Lower Carstreet Road	Sqm	17	2.00	2.00		08.00
	MH 1763 to MH 2539	Sqm	2	2.00	2.00		8.00
	Basavana Gudi Street and Kandathpalli Road	34111		2.00	2.00		0.00
	MH 1194 to MH 1610	Sqm	14	2.00	2.00		56.00
	Cross and Mochigali Road	<u> </u>					
	MH 715 to MH 1026	Sqm	8	2.00	2.00		32.00
	Bibi Alabi Road						
	MH 2259 to MH 2495	Sqm	3	2.00	2.00		12.00
	Bibi Alabi Road		_	2.22	2.22		22.22
	MH 692 to O78 Bibi Alabi Road	Sqm	7	2.00	2.00		28.00
	MH 1138 to MH 2495	Sqm	3	2.00	2.00		12.00
	Bunder and Ansari Road	34111		2.00	2.00		12.00
	MH 2296 to MH 2544	Sqm	14	2.10	2.10		61.74
	Ansari Cross Road				_		
	MH 709 to MH 710	Sqm	3	2.00	2.00		12.00
	Ansari Road						
	MH 2580 to MH 514	Sqm	2	2.30	2.30		10.58
	Ansari Cross Road						
	MH 2581 to MH 636	Sqm	2	2.00	2.00		8.00
	Ansari Road	6	2	2.20	2.20		10.50
	MH 648 TO MH 649 J M 2nd Cross Road	Sqm	2	2.30	2.30		10.58
	MH 2542 TO 0 76	Sqm	5	2.00	2.00		20.00
	J M 1st Cross Road	Jagin		2.00	2.00		20.00
	MH 2519 TO 0 77	Sqm	3	2.00	2.00		12.00
	Bibi Alabi Road	1					
	MH 2123 TO MH1247	Sqm	3	2.00	2.00		12.00
	Kasa Gaddi Road						
	MH 1030 to MH 2130	Sqm	4	2.00	2.00		16.00
	J M 2nd Cross and GM Road	1					
	MH 2130 to MH 2567	Sqm	7	2.00	2.00		28.00
	GM Road	C ==	4	2.00	2.00		4.00
	MH 2589 to MH 2568	Sqm	1	2.00	2.00		4.00
	J M 2nd Cross Road MH 2590 to MH 81	Sam	1	2.00	2.00		4.00
	J M 2nd Cross Road	Sqm	<u> </u>	2.00	2.00		4.00
	MH 170 to MH 26	Sqm	1	2.00	2.00		4.00
	<u>2.0.00 20</u>	1 24111		2.00	2.00	<u> </u>	<u> </u>

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	Urdu School Road						
	MH 705 to MH 2133	Sqm	3	2.00	2.00		12.00
	MPT Cross Road						
	MH 1074 to MH 2546	Sqm	5	2.00	2.00		20.00
	JM 5th Cross Road						
	MH 2350 to O 73	Sqm	2	2.00	2.00		8.00
	Kasa Gadi Cross Road						
	MH 50 to MH 2128	Sqm	1	2.00	2.00		4.00
	MPT Cross Road						
	MH 957 to MH 958	Sqm	3	2.00	2.00		12.00
	Azizudheen Road						
	MH 2575 to MH 2543	Sqm	7	2.00	2.00		28.00
	JM 5th Cross and Kandathpalli west Road						
	MH 2544 to MH 2571	Sqm	6	2.30	2.30		31.74
	J M 5th Cross Road						
	MH 398 to MH 399	Sqm	2	2.00	2.00		8.00
	Kandathpalli West Road	·					
	MH 599 to MH 600	Sqm	2	2.00	2.00		8.00
	Ansari Road	- 1					
	MH 402 to MH 2326	Sqm	2	2.00	2.00		8.00
	Kandathpalli West Road	94	_				
	MH 1211 to MH 2320	Sqm	8	2.00	2.00		32.00
	Kandathpalli West Cross Road	39		2.00	2.00		32.00
	MH 2576 to MH 2466	Sqm	1	2.00	2.00		4.00
	Kandathpalli West Cross Road	Jqiii		2.00	2.00		4.00
	MH 2569 to MH 917	Sqm	3	2.10	2.10		13.23
	Kandathpalli West Road	Jqiii	3	2.10	2.10		13.23
	MH 1624 to MH 917	Sqm	5	2.15	2.15		23.11
	Kandathpalli West Road	ЗЧП	3	2.13	2.13		23.11
	MH 917 to MH 773	Cam	2	2.30	2.30		10.50
		Sqm		2.30	2.30		10.58
	Lower Carstreet and Bhatkar Bazar Road	Causa	1.4	2.00	2.00		F6 00
	MH 2398 to MH 1619	Sqm	14	2.00	2.00		56.00
	Bhatkar Bazar Cross Road	Causa	2	2.00	2.00		0.00
	MH 287 to MH 288	Sqm	2	2.00	2.00		8.00
	Shree Kalikamba Vinayaka Street	C	2	2.00	2.00		12.00
	MH 2522 to MH 2524	Sqm	3	2.00	2.00		12.00
	Cross Road			2.22	0.00		12.00
	MH 624 to MH 625	Sqm	3	2.00	2.00		12.00
	Cross Road						
	MH 40 to MH 2408	Sqm	1	2.00	2.00		4.00
	Cross Road		_				
	MH 277 to MH 278	Sqm	1	2.00	2.00		4.00
В	Zone 3 Part 1						
	Bridge Road						
	MH-1264 to O-35	Sqm	13	2.00	2.00		52.00
	For Household Connection- Zone 4 Part 2 (MH = 206Nos, L=5m X 4	Sqm	206	10.00	0.60		1236.00
	connections in each manhole)-Road width >3m				3.00		
	For Household Connection- Zone 4 Part 2 (MH = 44Nos, L=5m X 4	Sqm	44	10.00	0.60		264.00
	connections in each manhole)-Road width <3m	34111	7-7	10.00	0.00		204.00
	For Household Connection- Zone 3 Part 1 (MH = 13Nos, L=5m X 4	Sam	13	10.00	0.60		78.00
	connections in each manhole)-Road width >3m	Sqm	13	10.00	0.60		/8.00
				Area (Pi*r*r)		
Α	Zone -4 (Part 2) and Zone -3 (Part 1)						
	Ded Manhole top cover Dia 0.60m and base dia 1.2m	Sqm	-243	0.2	283		-68.67
	Ded Manhole top cover Dia 0.60m and base dia 1.5m	Sqm	-20		283		-5.65
		1					
		Sqm				Total	13485.83

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
28	Providing and laying Semi dense bituminous concrete with 40-60 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filter, transporting the hot mix to work site, laying with a hydrostatic paver finisher with mechanical paver 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. 500.8, 25 mm compacted thickness with 5% bitumen 60/70 grade using 40-60 HMP (Grading II) using mechnical paver, with all lead and lift ,Labour, as per specification, Including environmental and social safe guards,						
	including all taxes, as directed by the Engineer-in-Charge etc., complete. 25mm thick KSRRB Pg No.163,Sl No. 21.20.6						
	Only for Pipe portion trench						
A	Zone 4 Part 2 Old Port Road						
	MH 2551 to O92	Cum	1	52.80	1.20	0.025	1.58
	Azizudheen Road						
	MH 2550 to MH 2565	Cum	1	56.50	1.20	0.025	1.70
	Azizudheen Road MH 646 to MH 2565	Cum	1	52.10	1.20	0.025	1.56
	Azizudheen Road	Cani		32.10	1.20	0.023	1.50
	MH 315 to MH 2247	Cum	1	37.60	2.10	0.025	1.97
	Azizudheen Road	Cum	1	146.00	1 20	0.025	4 20
	MH 2239 to MH 2565 Azizudheen Road	Cum	1	146.00	1.20	0.025	4.38
	MH 435 to MH 2243	Cum	1	34.10	1.20	0.025	1.02
	Azizudheen Road						
	MH 2565 to MH 379 Bunder Road and old Port Road	Cum	1	69.00	2.10	0.025	3.62
	MH 2548 to MH 2296	Cum	1	390.30	1.20	0.025	11.71
	Azizudheen Road				_		
	MH 2209 to MH 2521	Cum	1	85.90	1.20	0.025	2.58
	Old Port Road MH 2553 to MH 2558	Cum	1	87.30	1.20	0.025	2.62
	Cross Road	Cani		07.50	1.20	0.023	2.02
	MH 930 to MH 2563	Cum	1	79.60	2.20	0.025	4.38
	MH 2520 to MH 2292	Cum	1	107.20	1.20	0.025	3.22
	Cartstreet Road	Cuiii		107.20	1.20	0.023	3.22
	MH 1750 to MH 2525	Cum	1	197.40	1.20	0.025	5.92
	Lower Carstreet Road	Civia	4	207.70	2.25	0.025	42.20
	MH 517 to MH 2508 Lower Carstreet Road	Cum	1	207.70	2.35	0.025	12.20
	MH 269 to MH 270	Cum	1	26.60	1.20	0.025	0.80
	Lower Carstreet Road						
	MH 1600 to MH 1624 Lower Carstreet Road	Cum	1	422.00	2.10	0.025	22.16
	MH 1763 to MH 2539	Cum	1	48.60	1.20	0.025	1.46
	Basavana Gudi Street and Kandathpalli Road						
	MH 1194 to MH 1610	Cum	1	362.00	2.10	0.025	19.01
	Cross and Mochigali Road MH 715 to MH 1026	Cum	1	151.40	2.30	0.025	8.71
	Bibi Alabi Road			131.10	2.30	0.023	0.71
	MH 2259 to MH 2495	Cum	1	76.80	1.20	0.025	2.30
	Bibi Alabi Road MH 692 to 078	Cum	1	111.04	2.38	0.025	6.59
	Bibi Alabi Road	Cuili		111.04	2.50	0.023	0.59
	MH 1138 to MH 2495	Cum	1	55.00	2.10	0.025	2.89
	Bunder and Ansari Road	Cura	1	247.20	2.10	0.035	10.22
	MH 2296 to MH 2544 Ansari Cross Road	Cum	1	347.30	2.10	0.025	18.23
	MH 709 to MH 710	Cum	1	56.50	2.30	0.025	3.25
	Ansari Road					_	
	MH 2580 to MH 514 Ansari Cross Road	Cum	1	49.40	2.75	0.025	3.40
	Alibali Clubb Nuau			<u> </u>			<u> </u>

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH 2581 to MH 636	Cum	1	51.80	2.10	0.025	2.72
	Ansari Road						
	MH 648 TO MH 649	Cum	1	54.00	2.10	0.025	2.84
	J M 2nd Cross Road MH 2542 TO O 76	Cum	1	172.90	1.20	0.025	5.19
	J M 1st Cross Road	Cum		172.30	1.20	0.023	3.13
	MH 2519 TO O 77	Cum	1	88.80	2.10	0.025	4.66
	Bibi Alabi Road						
	MH 2123 TO MH1247	Cum	1	62.40	1.20	0.025	1.87
	Kasa Gaddi Road	Cum	1	98.80	2.10	0.025	5.19
	MH 1030 to MH 2130 J M 2nd Cross and GM Road	Cuili	1	96.60	2.10	0.025	5.19
	MH 2130 to MH 2567	Cum	1	152.90	2.10	0.025	8.03
	GM Road						
	MH 2589 to MH 2568	Cum	1	27.60	1.50	0.025	1.04
	J M 2nd Cross Road			22.22	2.00	0.005	4.40
	MH 2590 to MH 81 J M 2nd Cross Road	Cum	1	22.00	2.00	0.025	1.10
	MH 170 to MH 26	Cum	1	22.20	2.00	0.025	1.11
	Urdu School Road				2.00	0.023	1.11
	MH 705 to MH 2133	Cum	1	59.00	1.20	0.025	1.77
	MPT Cross Road						
	MH 1074 to MH 2546	Cum	1	115.50	1.20	0.025	3.47
	JM 5th Cross Road	Cum	1	90.70	1 20	0.035	2 42
	MH 2350 to O 73 Kasa Gadi Cross Road	Cum	1	80.70	1.20	0.025	2.42
	MH 50 to MH 2128	Cum	1	16.20	2.50	0.025	1.01
	MPT Cross Road						
	MH 957 to MH 958	Cum	1	86.50	2.10	0.025	4.54
	Azizudheen Road						
	MH 2575 to MH 2543	Cum	1	207.70	1.20	0.025	6.23
	JM 5th Cross and Kandathpalli west Road MH 2544 to MH 2571	Cum	1	169.50	2.10	0.025	8.90
	J M 5th Cross Road	Cuili		103.30	2.10	0.023	0.50
	MH 398 to MH 399	Cum	1	32.70	2.10	0.025	1.72
	Kandathpalli West Road						
	MH 599 to MH 600	Cum	1	47.70	2.10	0.025	2.50
	Ansari Road	Cum	1	26.00	2.00	0.035	2.70
	MH 402 to MH 2326 Kandathpalli West Road	Cum	1	36.00	3.00	0.025	2.70
	MH 1211 to MH 2320	Cum	1	126.90	2.80	0.025	8.88
	Kandathpalli West Cross Road						
	MH 2576 to MH 2466	Cum	1	23.60	1.20	0.025	0.71
	Kandathpalli West Cross Road		_				
	MH 2569 to MH 917	Cum	1	80.70	2.10	0.025	4.24
	MH 1624 to MH 917	Cum	1	110.80	2.10	0.025	5.82
	Kandathpalli West Road	Cum		110.00	2.10	0.023	3.02
	MH 917 to MH 773	Cum	1	38.60	2.18	0.025	2.10
	Lower Carstreet and Bhatkar Bazar Road						
	MH 2398 to MH 1619	Cum	1	316.90	2.10	0.025	16.64
	Bhatkar Bazar Cross Road MH 287 to MH 288	Cum	1	40 E0	2.20	0.025	2 22
	Shree Kalikamba Vinayaka Street	Culli		40.50	2.20	0.025	2.23
	MH 2522 to MH 2524	Cum	1	79.10	1.20	0.025	2.37
	Cross Road						
	MH 624 to MH 625	Cum	1	52.20	2.00	0.025	2.61
	Cross Road	Co. Co.	4	45.40	2.00	0.005	0
	MH 40 to MH 2408 Cross Road	Cum	1	15.40	2.00	0.025	0.77
	MH 277 to MH 278	Cum	1	29.00	2.00	0.025	1.45
	= 7, 10 = 70	Juin		23.00	2.00	0.023	1.73
В	Zone 3 Part 1						
	Bridge Road						
	MH-1264 to O-35	Cum	1	285.30	1.20	0.025	8.56
	Only for Manhola partian	<u> </u>					
	Only for Manhole portion	1	<u> </u>	<u> </u>			

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
Α	Zone 4 Part 2						
	Old Port Road	Cours	2	2.00	2.00	0.025	0.20
	MH 2551 to O92 Azizudheen Road	Cum	2	2.00	2.00	0.025	0.20
	MH 2550 to MH 2565	Cum	2	2.00	2.00	0.025	0.20
	Azizudheen Road		_			0.000	0.20
	MH 646 to MH 2565	Cum	3	2.00	2.00	0.025	0.30
	Azizudheen Road						
	MH 315 to MH 2247	Cum	2	2.00	2.00	0.025	0.20
	Azizudheen Road MH 2239 to MH 2565	Cum		2.00	2.00	0.025	0.60
	Azizudheen Road	Cuiii	6	2.00	2.00	0.025	0.60
	MH 435 to MH 2243	Cum	2	2.00	2.00	0.025	0.20
	Azizudheen Road						
	MH 2565 to MH 379	Cum	4	2.00	2.00	0.025	0.40
	Bunder Road and old Port Road						
	MH 2548 to MH 2296	Cum	16	2.00	2.00	0.025	1.60
	Azizudheen Road MH 2209 to MH 2521	Cum	3	2.00	2.00	0.025	0.30
	Old Port Road	Cuili		2.00	2.00	0.023	0.50
	MH 2553 to MH 2558	Cum	3	2.00	2.00	0.025	0.30
	Cross Road						
	MH 930 to MH 2563	Cum	5	2.00	2.00	0.025	0.50
	Bunder Cross Road	C	2	2.00	2.00	0.005	0.00
	MH 2520 to MH 2292 Cartstreet Road	Cum	3	2.00	2.00	0.025	0.30
	MH 1750 to MH 2525	Cum	8	2.00	2.00	0.025	0.80
	Lower Carstreet Road					0.010	
	MH 517 to MH 2508	Cum	11	2.00	2.00	0.025	1.10
	Lower Carstreet Road						
	MH 269 to MH 270	Cum	2	2.00	2.00	0.025	0.20
	MH 1600 to MH 1624	Cum	17	2.00	2.00	0.025	1 70
	Lower Carstreet Road	Cuili	17	2.00	2.00	0.025	1.70
	MH 1763 to MH 2539	Cum	2	2.00	2.00	0.025	0.20
	Basavana Gudi Street and Kandathpalli Road						
	MH 1194 to MH 1610	Cum	14	2.00	2.00	0.025	1.40
	Cross and Mochigali Road			2.22	2.22	0.005	2.00
	MH 715 to MH 1026 Bibi Alabi Road	Cum	8	2.00	2.00	0.025	0.80
	MH 2259 to MH 2495	Cum	3	2.00	2.00	0.025	0.30
	Bibi Alabi Road			2.00	2.00	0.010	
	MH 692 to O78	Cum	7	2.00	2.00	0.025	0.70
	Bibi Alabi Road						
	MH 1138 to MH 2495	Cum	3	2.00	2.00	0.025	0.30
	Bunder and Ansari Road	Cum	14	2.10	2.10	0.025	1.54
	MH 2296 to MH 2544 Ansari Cross Road	Cuiii	14	2.10	2.10	0.025	1.54
	MH 709 to MH 710	Cum	3	2.00	2.00	0.025	0.30
	Ansari Road						
	MH 2580 to MH 514	Cum	2	2.30	2.30	0.025	0.26
	Ansari Cross Road		_				
	MH 2581 to MH 636 Ansari Road	Cum	2	2.00	2.00	0.025	0.20
	MH 648 TO MH 649	Cum	2	2.30	2.30	0.025	0.26
	J M 2nd Cross Road	Cuiii		2.50	2.30	0.023	0.20
	MH 2542 TO O 76	Cum	5	2.00	2.00	0.025	0.50
	J M 1st Cross Road						
	MH 2519 TO O 77	Cum	3	2.00	2.00	0.025	0.30
	Bibi Alabi Road	Cum	3	2.00	2.00	0.035	0.20
	MH 2123 TO MH1247 Kasa Gaddi Road	Cum	3	2.00	2.00	0.025	0.30
	MH 1030 to MH 2130	Cum	4	2.00	2.00	0.025	0.40
	J M 2nd Cross and GM Road		-				
	MH 2130 to MH 2567	Cum	7	2.00	2.00	0.025	0.70
	GM Road						
	MH 2589 to MH 2568	Cum	1	2.00	2.00	0.025	0.10

	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	J M 2nd Cross Road						
	MH 2590 to MH 81	Cum	1	2.00	2.00	0.025	0.10
	J M 2nd Cross Road						
	MH 170 to MH 26	Cum	1	2.00	2.00	0.025	0.10
	Urdu School Road						
	MH 705 to MH 2133	Cum	3	2.00	2.00	0.025	0.30
	MPT Cross Road						
	MH 1074 to MH 2546	Cum	5	2.00	2.00	0.025	0.50
	JM 5th Cross Road						
	MH 2350 to O 73	Cum	2	2.00	2.00	0.025	0.20
	Kasa Gadi Cross Road						
	MH 50 to MH 2128	Cum	1	2.00	2.00	0.025	0.10
	MPT Cross Road						
	MH 957 to MH 958	Cum	3	2.00	2.00	0.025	0.30
	Azizudheen Road						
	MH 2575 to MH 2543	Cum	7	2.00	2.00	0.025	0.70
	JM 5th Cross and Kandathpalli west Road						
	MH 2544 to MH 2571	Cum	6	2.30	2.30	0.025	0.79
	J M 5th Cross Road						
	MH 398 to MH 399	Cum	2	2.00	2.00	0.025	0.20
	Kandathpalli West Road						
	MH 599 to MH 600	Cum	2	2.00	2.00	0.025	0.20
	Ansari Road						
	MH 402 to MH 2326	Cum	2	2.00	2.00	0.025	0.20
	Kandathpalli West Road						
	MH 1211 to MH 2320	Cum	8	2.00	2.00	0.025	0.80
	Kandathpalli West Cross Road						
	MH 2576 to MH 2466	Cum	1	2.00	2.00	0.025	0.10
	Kandathpalli West Cross Road		_				
	MH 2569 to MH 917	Cum	3	2.10	2.10	0.025	0.33
	Kandathpalli West Road		_				
	MH 1624 to MH 917	Cum	5	2.15	2.15	0.025	0.58
	Kandathpalli West Road		2	2.20	2.22	0.005	0.00
	MH 917 to MH 773	Cum	2	2.30	2.30	0.025	0.26
	Lower Carstreet and Bhatkar Bazar Road	Course	1.4	2.00	2.00	0.035	1 10
	MH 2398 to MH 1619	Cum	14	2.00	2.00	0.025	1.40
	Bhatkar Bazar Cross Road	Cum	2	2.00	2.00	0.035	0.20
	MH 287 to MH 288	Cum	2	2.00	2.00	0.025	0.20
	Shree Kalikamba Vinayaka Street MH 2522 to MH 2524	Cum	3	2.00	2.00	0.025	0.20
	Cross Road	Cum	3	2.00	2.00	0.025	0.30
	MH 624 to MH 625	Cum	3	2.00	2.00	0.025	0.30
	Cross Road	Cuiii	3	2.00	2.00	0.025	0.30
	MH 40 to MH 2408	Cum	1	2.00	2.00	0.025	0.10
	Cross Road	Cuiii	Т.	2.00	2.00	0.023	0.10
	MH 277 to MH 278	Cum	1	2.00	2.00	0.025	0.10
	WITT 277 to WITT 278	Cuiii	1	2.00	2.00	0.023	0.10
В	Zone 3 Part 1						
	Bridge Road						
	MH-1264 to O-35	Cum	13	2.00	2.00	0.025	1.30
	WIII-1204 to 0-33	Cuiii	13	2.00	2.00	0.023	1.30
	For Household Connection- Zone 4 Part 2 (MH = 206Nos, L=5m X 4 connections in each manhole)-Road width >3m	Cum	206	10.00	0.60	0.025	30.90
	For Household Connection- Zone 4 Part 2 (MH = 44Nos, L=5m X 4 connections in each manhole)-Road width <3m	Cum	44	10.00	0.60	0.025	6.60
	For Household Connection- Zone 3 Part 1 (MH = 13Nos, L=5m X 4 connections in each manhole)-Road width >3m	Cum	13	10.00	0.60	0.025	1.95
		1		Area (Pi*r*r)		
					,		

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
С	Zone -4 (Part 2) and Zone -3 (Part 1)	Cure	242	0.1	102	0.025	1 72
	Ded Manhole top cover Dia 0.60m and base dia 1.2m	Cum	-243		283	0.025	-1.72
	Ded Manhole top cover Dia 0.60m and base dia 1.5m	Cum	-20	0.2	283	0.025	-0.14
		Cum				Total	337.15
		Cum				TOtal	337.13
	Dewatering for Lowering of water table to creat dry conditions at least						
	upto the bed of the excavation including the cost of material, labour T &						
	P articles & machinery laying sewer line & Manholes as per approved						
	drawings according. to the requirement of the construction of structure.						
	The cost of this work shall be inclusive of disposal of water pumped out						
29	at a safe place away from the structure. The dewatering will work till the						
23	completion of the structure as per approved drawings, with all						
	horizontal leads and lifts etc., complete in all respects as per						
	specification and as directed by engineer. During the execution of work						
	enough precaution should be taken by the contractor to ensure that the						
	clear water flows from the delivery pipe of pumps to avoid any						
	settlement of soil during the process. (Rate analysis attached)	Davis of					
Α	Zone 4 Part 2 1 months x 30 days	Day s of	30.00				30.00
		8 hours				Total	30.00
	Sheet piling: Providing and installing sheet piling for both sides of the						30.00
	trench for following depths with mild steel sheets not less than 6.5 mm						
	thick, stronger knife edge, recessed spreader sockets, 3" single or						
	double wall shields, to be designed by the contractor to withstand all						
	types of soils, maximum depths of as per the approved design drawing,						
30	including labour charges for installing and removing the sheet piling at						
	various reaches of sewer line construction, including loading, unloading,						
	transporting to the suitable location etc. complete with all lead and lifts						
	(Measurement shall be taken for one side only eventhough it is						
	provided for both sides)						
	BWSSB 16-17 SI No.93,Pg No.90						
	Trench Line (Zone 4 Part 2)						
	0 - 3.0m depth Old Port Road						
	MH 2551 to O92	Sqm	1	52.8		1.21	63.62
	Bunder Road and old Port Road	Sqiii	т	32.0		1.21	03.02
	MH 2548 to MH 2296	Sqm	1	390.3		1.54	600.94
	Bunder and Ansari Road	34111		330.3		1.51	000.5
	MH 2296 to MH 2544	Sqm	1	211.5		2.33	492.66
	Ansari Cross Road	'					
	MH 709 to MH 710	Sqm	1	56.5		1.84	104.05
	Ansari Cross Road						
	MH 2581 to MH 636	Sqm	1	51.8		2.70	139.60
	JM 5th Cross and Kandathpalli west Road						
	MH 2544 to MH 2571	Sqm	1	169.5		0.00	0.00
	J M 5th Cross Road	6		22.7		4.76	
	MH 398 to MH 399	Sqm	1	32.7		1.76	57.47
	Kandathpalli West Road MH 599 to MH 600	Cam	1	47.7		2.11	100.53
	IVIH 399 to IVIH 600	Sqm		47.7		2.11	100.55
	Manhole						
	Zone 4 Part 2 and Zone 3 Part 1						
	Ded Manhole portion for 1.2m Dia	Sqm	37	2.00		2.30	170.20
	Ded Manhole portion for 1.5m Dia	Sqm	10	2.30		3.76	86.48
	Above 3.0m upto 10 mtrs. Depth (Zone 4 Part 2)						
	Trench Line						
	Bunder and Ansari Road						
	MH 2296 to MH 2544	Sqm	1	135.20		3.40	459.68
	JM 5th Cross and Kandathpalli west Road						
	MH 2544 to MH 2571	Sqm	1	171.80		3.71	637.62
	Total Oty	Carra				Tatal	2042.01
	Total Qty 0 - 3.0m depth	Sqm				Total Total	2912.86 1729.08
	Above 3.0m upto 10 mtrs. Depth	Sqm					1129.08
	προλε 3.0III αλίο το IIIα 2. <u>Πελαι</u>	Sqm				Total	1193./8

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	KSRB 14.6-2 :Providing and laying heavy duty cobble stones 75mm thick interlock pavers, 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 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction						
31	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.						
	PWD (16-17,Pg No.101,Sl No.14.7)						
	Zone 3 Part 1						
	Trench Line						
	KSR Cross Road MH-904 to O-30	Sqm	1	0.00	1.40		0.00
	KSR Cross Road	54	_	0.00			
	MH-1891 to O-11	Sqm	1	0.00	1.40		0.00
	KSR Cross Road MH-728 to MH-1891	Sqm	1	0.00	1.40		0.00
	Balmatta Cross Road	39	-	0.00	21.10		0.00
	MH-1027 to MH-1895	Sqm	1	0.00	1.40		0.00
	MH-666 to O-40	Sqm	1	0.00	1.40		0.00
	KSR Cross Road	Sqiii		0.00	1.40		0.00
	MH-369 to O-43	Sqm	1	0.00	1.40		0.00
	KSR Cross Road MH-1205 to O-37	Sam	1	0.00	1.40		0.00
	KSR Cross Road	Sqm	т	0.00	1.40		0.00
	MH-155 to O-38	Sqm	1	23.80	1.20		28.56
	Court Cross Road	Carra	4	200.70	2.40		424.47
	MH-1207 to O-39 Court Cross Road	Sqm	1	200.70	2.10		421.47
	MH-645 to MH-644	Sqm	1	46.00	2.10		96.60
	St Aloysius College Road	_	_				
	MH-1003 to O-22 St Aloysius College Road	Sqm	1	0.00	1.40		0.00
	MH-1469 to O-21	Sqm	1	0.00	1.40		0.00
	St Aloysius College Road and Court Road	-					
	MH-2491 to O-34 Court Road	Sqm	1	0.00	1.40		0.00
	MH-1136 to MH-1537	Sqm	1	0.00	1.40		0.00
	Court Cross Road						
	MH-826 to MH-827	Sqm	1	0.00	1.40		0.00
	Court Road MH-1498 to O-23	Sqm	1	0.00	1.40		0.00
	KRR Cross Road	5 4					
	MH-321 to MH-2454	Sqm	1	0.00	1.40		0.00
	KRR Cross Road MH-1065 to O-20	Sqm	1	0.00	1.40		0.00
	KRR Cross Road	39111	-	0.00	2.10		0.00
	MH-1096 to O-18	Sqm	1	0.00	1.40		0.00
	KRR Cross Road MH-533 to O-19	Sqm	1	0.00	1.40		0.00
	Bunts Hostel Cross Road	34111		0.00	1.40		0.00
	MH-353 to O-17	Sqm	1	0.00	1.40		0.00
	Bunts Hostel Cross Road MH- 668 to O-15	Sqm	1	0.00	1.40		0.00
	Bunts Hostel Cross Road	34111	т	0.00	1.40		0.00
	MH-588 to O-16	Sqm	1	0.00	1.40		0.00
	Bunts Hostel Cross Road	C	4	00.00	2.40		207.00
	MH-928 to O-14 Bridge Road	Sqm	1	99.00	2.10		207.90
	MH-1264 to O-35	Sqm	1	0.00	1.20		0.00
	Arya Samaj Road						
	MH-1462 to O-12 Arya Samaj Cross Road	Sqm	1	543.10	1.20		651.72
	MH-2498 to O-45	Sqm	1	76.20	3.00		228.60
	Arya Samaj Cross Road						

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	MH-1390 to O-46	Sqm	1	46.00	3.00		138.00
	Kadri Cross Road						
	MH-1107 to O-13	Sqm	1	131.80	2.10		276.78
	KRR Cross Road						
	MH-813 to MH-1416	Sqm	1	84.00	2.80		235.20
					ملد ملد و		
	Manhole Cover Deduction		10		pi *r*r		40.55
	For Manhole Area - 1.2m Dia	Sqm	-48	0			-13.57
	For Manhole Area - 1.5m Dia	Sqm	-4	0	28		-1.13
	Household connection						
	Zone 3 Part 1						
	For Household Connection- Zone 3 Part 1 (MH = 44Nos, L=5m X 4 connections in each manhole)-Road width >3m,Length 50%	Sqm	44	10.00	0.60		264.00
	For Household Connection- Zone 3 Part 1 (MH = 8Nos, L=5m X 4 connections in each manhole)-Road width<3m,Length 50%	Sqm	8	10.00	0.60		48.00
	commediate in each manner, near main som, zengen so/e	Sqm				Total	2582.13
		<u> </u>					
	UTILITY SHIFTING						
Α	Dismantling						
1	KSRRB M200-13.2. 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. II.By Mechanical Means. MORTH Specification No. 202 KSRRB Pg No.137,Sl No.18.21						
	Compound wall - S S Masonry Foundation	Cum	1	90.00	0.6	0.6	32.40
	,	Cum	1	90.00	0.45	0.6	24.30
		Cum	1	90.00	0.3	0.3	8.10
	Super structure	Cum	1	90.00	0.23	1.2	24.84
	Culvert - Foundataion	Cum	20	1.50	0.60	1.00	18.00
		Cum	20	1.50	0.60	0.60	10.80
	Total	Cum					118.44
	Total 70% of Qty						82.91
2	KSRRB M200-14.2. 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. ii) Dismantling brick/Tile work B. In cement mortar. MORTH Specification No. 202						
	KSRRB Pg No.137,Sl No.18.23						
	Compound wall - S S Masonry Foundation	Cum	1	90.00	0.6	0.6	32.40
		Cum	1	90.00	0.45	0.6	24.30
	Company at most one	Cum	1	90.00	0.3	0.3	8.10
	Super structure	Cum	1	90.00	0.23	1.2	24.84
	Culvert - Foundataion	Cum	20	1.50	0.60	1.00	18.00
	Total	Cum	20	1.50	0.60	0.60	10.80
		Cum					118.44
	Total 30% of Qty						35.53
В	Compound wall						
Ď	Compound wan						-
1	KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 KSRRB Pg No.5,SI No.2.3						
	Excavation for compound wall in ordinary soil	Cum	1	90.00	0.95	1.20	102.60
	Total	Cum		90.00	0.33	1.20	102.60
	, · • · • ·	Culli					102.00

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
2	KSRB 4-1.1: Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.						
	Specification No. KBS 4.1, 4.2 KSRRB Pg No.12,SI No.4.1						
	PCC	Cum	1	90.00	0.95	0.15	12.83
	DPC	Cum	1	90.00	0.45	0.08	3.24
	Copping	Cum	1	90.00	0.23	0.08	1.66
	Extra at Pillar top	Cum	26	0.45	0.45	0.08	0.42
	Total	Cum	20	0.13	0.15	0.00	18.14
	Providing and constructing granite / trap / basalt size stone masonry in						
	foundation with cement mortar 1:6 stone hammerd dressed in courses						
	not less than 20 cms high, bond stones at two m. apart in each course						
3	including cost of materials, labour, curing complete as per specifications. KBS 5.1.13						
	KSRRB Pg No.254,SI No.34.8.2						
	Size stone masonry at Foundation						
	1st Course	Cum	1	90.00	0.60	0.60	32.40
	2nd Course	Cum	1	90.00	0.45	0.60	24.30
	Plinth	Cum	1	90.00	0.30	0.30	8.10
	Total	Cum					64.80
_	Providing & constructing laterite size stone masonry in CM 1:6 including cost and conveyance of all materials curing, etc complete as per specification I.S. 3620 / 1979 having compressive strength not less than						
4	3.5 N/mm2 for saturated dry samples. For super structure in CM 1:6 (Cement 45 kgs/M3) (Ground Floor) KSRRB Pg No.267,Sl No.37.66.1						
	For Superstrucure wall	Cum	1	90.00	0.23	1.20	24.84
	For Pillars	Cum	26	0.45	0.45	1.20	6.32
	Deduct Pillars at wall	Cum	-26	0.45	0.23	1.20	-3.23
	Total	Cum					27.93
	KSRB15-3.11: Providing 20mm thick cement plaster in single coat with						
5	cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. KSRRB Pg No.114,SI No.15.19						
	,	•		00.00		2.00	277.20
	For supper structure Plastering on both sides	Sqm	1	90.00		3.08	277.20
	For Pillars projections	Sqm	51	0.22	2.2-	3.08	34.56
	For DPC horizantal portion	Sqm	1	90.00	0.22		19.80
	Pillar top	Sqm	26	0.45		0.45	5.27
	Total	Sqm					336.82
6	KSRB 15-16.1: Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications with primer. KSRRB Pg No.118,Sl No.15.53.2						
	Total Qty same as above SI No 5	Sqm	1				336.82

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of						
	foundations upto plinth in layers not exceeding 20cms. In depth,						
7	compacting each deposited layer by ramming after watering with lead						
,	upto 50m. and lift upto 1.5m. including cost of all labour complete as						
	per specifications. Specification No. KBS 2.9						
	KSRRB Pg No.6,Sl No.2.1						
	Refilling Qty 1/3rd of Excavated Qty	Cum	1				34.20
С	CULVERT						
	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water						
	supply, sanitary lines and electrical conduits either in pits or in trenches						
	1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth						
1	including dressing the bottom and sides of pits and trenches, stacking						
_	the excavated soil clear from edges of excavation with lead upto 50 m.						
	after breaking of clods complete as per specifications. specification. No.						
	KBS 2.1(a) / 2.3.5						
	KSRB Pg No 5,SI No.2.3						
	For pipe culverts - 300mm dia.						
	excavation for pipe	Cum	10	5.00	0.90	1.45	65.25
	excavation for masonry structure	Cum	20	1.50	0.60	1.45	26.10
	For pipe culverts - 450mm dia.		10	F 00	1.05	1.00	04.00
	excavation for pipe	Cum	10	5.00	1.05	1.60	84.00
	excavation for masonry structure	Cum	20	1.65	0.6	1.60	31.68
	Total	Cum					207.03
	KSRRB M2900- PCC 1:3:6 in Foundation KSRRB M2900-1. Plain cement						
	concrete 1:3:6 mix with crushed stone aggregate 40 m nominal size						
2	mechanically mixed, placed in foundation and compacted by vibration						
	including curing complete as per specifications MORTH Specification						
	No. 408						
	KSRB Pg No.253,SI No.34.1						
	For pipe culverts - 300mm dia. PCC for pipe	Cum	10	5.00	0.30	0.15	2.25
	excavation for masonry structure	Cum Cum	20	1.50	0.60	0.15	2.70
	For pipe culverts - 450mm dia.	Cuiii		1.30	0.00	0.13	2.70
	PCC for pipe	Cum	10	5.00	0.45	0.15	3.38
	excavation for masonry structure	Cum	20	1.65	0.60	0.15	2.97
	Total	Cum					11.30
	Providing and constructing granite / trap / basalt size stone masonry in						
	foundation with cement mortar 1:6 stone hammerd dressed in courses						
2	not less than 20 cms high, bond stones at two m. apart in each course						
3	including cost of materials, labour, curing complete as per specifications.						
	KBS 5.1.13						
	KSRB Pg No.254,SI No.34.8.2						
	For pipe culvert 300mm dia	Cum	20	1.50	0.60	1.00	18.00
	Deduct pipe	Cum	-20	0.07			-1.41
	For pipe culvert 450mm dia	Cum	20	1.65	0.60	1.00	19.80
	Deduct pipe	Cum	-20	0.16			-3.18
	Total	Cum					33.20
	Providing and constructing granite / trap / basalt size stone masonry						
	in basement with cement mortar 1:6, edges of stones chistle dressed						
	in courses not less than 15 cms high, bond stones at two m. apart in						
4	each course including cost of materials, labour, curing complete as per						
	specifications.						
	KSRB Pg No.254,SI No.34.9						
		6	20	1.50	0.60	0.60	10.80
	For nine culvert 300mm dia	,		1.50	ı v.ov l	0.00	10.00
	For pipe culvert 300mm dia For pipe culvert 450mm dia	Cum				0.60	11 QQ
	For pipe culvert 300mm dia For pipe culvert 450mm dia Total	Cum Cum	20	1.65	0.60	0.60	11.88 22.68

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
5	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. – do – cement mortar 1:4						
	KSRB Pg No.254,Sl No.34.12.1		10	1.50			26.00
	For pipe culvert 450mm dia	Sqm	40	1.50		0.60	36.00
	For pipe culvert 450mm dia Total	Sqm Sqm	40	1.65		0.60	39.60 75.60
	Total	Jqiii					73.00
6	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 300mm. dia KSRB Pg No.253,Sl No.34.6.1						
	for 300mm dia	Rmt	10	5.00			50.00
	Total	Rmt					50.00
7	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 450mm. dia KSRB Pg No.253,SI No.34.6.2						
	for 450mm dia	Rmt	10	5.00			50.00
	Total	Rmt					50.00
8	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. including cost of all labour complete as per specifications. Specification No. KBS 2.9 KSRB Pg No.6,SI No.2.10 1/3 of total excavation	Cum	1				69.01
D	RCC DRAINS						
1	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary Soil not exeeding 1.5 m.in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m after breaking of clods complete as per specificationsincluding clearing vegetation, shoring, strutting, dewatering if required, and ramming with selected earth for foundation and disposing off excess excavated material as approved by Engineer etc. complete with all lead and lift including danger lighting wherever necessary as directed in the following strata. KSRB Pg No.5,SI No.2.3						
	In ordinary soil	Cum	1	180.00	0.85	0.53	80.33
	Extra for filter media	Cum	180	0.30	0.30	0.30	4.86
	Total	Cum					85.19
2	Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted in foundation, plinth and cills, including cost of all materials, labour, HOM of machineries, curing complete as per specifications. KSRB Pg No 12,Sl No.4.1						
	PCC For raft	Cum	1	90.00	0.85	0.08	5.74
				30.00	0.03	0.00	.
	Total	Cum					5.74

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
3	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregates @0.47cum, with super plasticisers @ 3 liters conforming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestrals, retaining walls, returnwalls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. KSRB Pg No.13,SI NO.4.10						
	For raft	Cum	1	90.00	0.70	0.10	6.30
	For side wall	Cum	2	90.00	0.10	0.60	10.80
	For Precast cover slabs	Cum	60	0.50	0.50	0.10	1.50
	Total	Cum					18.60
4	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete with all lead lifts and as per specifications and directinon of Engineer-in-Charge. FE 500 KSRB Pg No.17,Sl No.4.46.2 Rev.						
	Total concrete	Cum	1				18.60
	Reinforcement TMT 100kg/ cum	Kg	1				1860.00
	Total	MT					1.86
5	Providing and removing, centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. KSRB Pg No.15,SI No.4.28	Court	2	00.00		0.00	12.50
	For PCC sides For raft sides	Sqm	2	90.00		0.08	13.50 18.00
	Total	Sqm Sqm		90.00		0.10	31.50
	Total	34111					31.30
6	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses plinth cills and string courses cost of all materials, labour complete as per specifications. KSRB Pg No.15,SI No.4.31						
	For side wall	Sqm	4	90.00		0.60	216.00
	Total	Sqm					216.00
7	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200mm including cost of all materials, labour complete as per specification. (Ground floor) KSRB,Pg No.15,Sl No.4.18						
	For Cover slab	Sqm	1	0.50	0.50		0.25
	Slab side	Sqm	2	0.50		0.10	0.10
		Sqm	2	0.50		0.10	0.10
	Sub Total						0.45
	No. of cover slabs = 45/1.5 Total	Sqm Sqm	60				27.00 27.00

Sr.No.	Description of Work	UNIT	No	LENGTH	BREADTH	DEPTH	QUANTITY
8	KSRRB M2200 - Providing Weep holes Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with PVC 90mm outer dia pipe 2 kg / Sqcm, extending through the full width of the structure with slope of 1V:20H towards drawing force complete as per drawing and Technical specifications complete as per specifications. KSRB,Pg No.225,SI No.28.10						
		Rmt	90	0.10			9.00
	Total	Rmt					9.00
9	Providing and laying of filter media with granular materials/stone crushed aggrigates satisfying the requirement laid down in clause 2500.4.2.2 of morth specification to a thickness not less than 600 mm with smaller size to wards the soil and bigger size towards the wall and provided over the entire surface behind the abutment, wing wall and return wall to full hight compacted to afirm condition complete as per drawing and technical specification KSRB,Pg No.225,SI No.28.13						
	For filter media.	Cum	90	0.30	0.30	0.30	2.43
	Total	Cum					2.43
10	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. including cost of all labour complete as per specifications. Specification No. KBS 2.9 KSRB Pg No.6,SI No.2.10						
	Total excavation	Cum	1				85.19
	Deduct PCC	Cum	-1				-5.74
	Raft	Cum	-1				-17.10
	Drain Volume	Cum	-1	90.00	0.50	0.50	-22.50
	Total	Cum					39.85

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

MANGALURU SMART CITY 1.40 Measurement Sheet of UNDERGROUND DRAINAGE Zone 4 Part 2 and Zone 3 Part 1

	1.40 Measurement Sheet of UNDERGROUN Electrical Estimates for Pole Shifting in Zone-4 and									
Item No	Particulars	Unit	No	L(m)	B(m)	D(m)	Qty	Rate (Rs)	Amount (Rs)	Remarks
11.2.1	Releasing and removal of 9 Mtr RCC pole and shifting to new location & re-erection of released 9 metre RCC pole in the location specified, including transportation to work site, digging a pit to a depth of 1.8 mtr, aligning it, refilling the old and new pits using soil removed up to ground level, compacting, complete for each pole, at an average span of maximum 40 metres including all lead and lifts, as per KPTCL/MESCOM/ IE rule & specifications	Nos					39	2920.30	113891.70	RA-1
11.2.2	Supply and erection of 9 metre RCC poles(using Tor50 12mm dia steel), including transportation to work site with all lead from factory and head load from the nearest road; digging a pit to a depth up to of 1.8 mtr, aligning it, refilling the soil removed up to ground level, compacting, complete for each pole, at a average span of 40 metres (max.) as per KPTCL/MESCOM/ IE rules including all lead and Lift.	Nos					28	7478.00	209384.00	RA-2
11.2.3	Releasing and removal of deteriorated / damaged 9 mtr RCC poles in 11 kV HT line, refilling of the pit up to ground level compacting etc., and handing over the unused damaged / deteriorated poles to MESCOM including all lead and lift.as per KPTCL/MESCOM/ IE rules.	Nec					28	1555.59	43556.49	RA-3
11.2.4	Releasing and removal of 11Mtr rail pole / ISMB poles, and shifting to new location & re-erection of released 11Mtr rail pole /ISMB poles including transportation to work site with all lead from factory and head load from the nearest road, in a pit of depth 1.8 mtrs, insertion of released pole in the new pit after coating with anti corrosive paint of black colour to a length of depth of insertion, aligning it, refilling the pit with soil removed, complete for each pole, at a average span of maximum 50metres Including all lead and lift, as per KPTCL/MESCOM/ IE rules and specifications.	Nos					2	2997.44	5994.88	RA-4
11.2.5	Supply and erection of 11 metre long Rail pole / ISMB -200 x 100mm size, transportation to work site with all lead from factory and head load from the nearest road; digging 1.8 Mtr pit, applying two coats of anti-corrosive paint to the root to a length of depth of insetion of black colour, aligning it, refilling the pit with soil removed up to ground level, compacting, complete for each pole, for a average span of maximum 50mtres as per KPTCL rules.(Including all lead and Lift).as per KPTCL/MESCOM/ IE rules.	Nos					1	17234.60	17234.60	RA-5
11.2.6	Pole base concreting: supplying and providing pole base concrete of size 500 x 650 x 150 mm using 1:4:8 ratio cement congrete for 9mtr RCC pole including shuttering & all other materials and labour all lead and lift as per KPTCL/MESCOM/ IE rules.						33.5	229.00	7671.50	RA-6
11.2.7	Pole base concretiong: supplying and providing pole base concrete of size 650 x 500 x 150 mm using 1:4:8 ratio cement congrete for 11 mtr ISMC / ISMB pole including shuttering & all other materials and labour all lead and lift as per KPTCL/MESCOM/ IE rules.	Fach					3.5	704.00	2464.00	RA-7
11.2.8	Pole concreting: supplying and providing 1:2:4 ratio concrete mix of size 500 x 650 x 1700 mm cement concreting for 9 mtr RCC pole including all materials and labour, shuttering including all lead and lift as per KPTCL/MESCOM/ IE rules.						33.5	2566.00	85961.00	RA-8
11.2.9	Pole concretiong: supplying and providing 1:2:4 ratio concrete mix of size 500 x 650 x 2000 mm cement concreting for 11mtr ISMB pole concreting including all materials and labour, shuttering including all lead and lift as per KPTCL/MESCOM/ IE rules.						3.5	2721.00	9523.50	RA-9
11.2.10	Releasing and refixing of 11kV Horizontal cross arm with HT Single top support, clamps, bolts, nuts and washers including all lead and lift as per KPTCL/MESCOM/ IE rules.						39	272.75	10637.06	RA-10
11.2.11	Supplying and fixing of 11kV Horizontal cross arm with HT Single top support, including clamps, bolts, nuts and washers including all lead and lift and MESCOM specifications.	Set					28	525.55	14715.40	RA-11
11.2.12	Releasing and removal of deteriorated damaged HT cross arms and handing over the released materials to MESCOM including all lead and lift as per KPTCL/MESCOM/ IE rules.						28	140.27	3927.64	RA-12
	Releasing and refixing of released 4 pin LT Horizontal cross arms, fabricated out of mild steel structure steel as per KPTCL standards complete set with all fixing accessories like bolt, nuts, washers, pole clamps etc., including all necessary lead and lift as per KPTCL/MESCOM/ IE rules.						39	264.48	10314.72	RA-13
	Supply and fixing of 4 pin LT horizontal cross arms, fabricated out of mild steel structure steel as per KPTCL standards complete set with all fixing accessories like bolt, nuts, washers, pole clamps etc., including all necessary lead and lift as per KPTCL/MESCOM/ IE rules.	Set					28	402.20	11261.60	RA-14
11.2.15	Releasing ans removal of deteriorated / damaged 4 pin cross arms and handing over released cross arm to MESCOM including all lead and lift as per KPTCL/MESCOM/ IE rules.						28	118.55	3319.46	RA-15
	Releasing and refixing of released Guy sets with break insulators, 7 / 10 SWG GI wire, turn buckle and anchoring arrangements with necessary earth work excavation, providing and laying of concrete inclduing curing etc. complete as per KPTCL specification and rules including all lead and lifts as per KPTCL/MESCOM/ IE rules.						6.5	1030.37	6697.41	RA-16

	Supply and fixing of Guy sets with No. 15 break insulator, 7 / 10 SWG G I rope, turn buckle and anchoring arrangements with necessary earth work excavation, providing and laying of concrete inclduing curing etc. complete as per KPTCL specification and rules including all lead and lift as per KPTCL/MESCOM/ IE rules.			5.5	1317.30	7245.15	RA-17
11.2.18	Releasing and restringing of released ACSR conductor and handing over the unused released materials to MESCOM including all lead and lift as per KPTCL/MESCOM/ IE rules.			13.5	7185.04	96998.04	RA-18
11.2.19	Supplying and stringing of Rabbit ACSR conductor, inclusive of length for jumps, binding to the Pin Insulators, with minimum sag of 5% with necessory lead and lifts as per IE Rules/ KPTCL/ESCOM specification.			0.5	37457.60	18728.80	RA-19
11.2.20	Releasing and restringing using released conductor for LT distribution line and returning the excess / unused materials to MESCOM including all lead and lift as per KPTCL/MESCOM/ IE Specifications.			18	5270.32	94865.67	RA-20
11.2.21	Supplying and stringing of Weasel ACSR conductor for LT distribution as per MESCOM / KPTCL specifications and standards including all lead and lift.	Km		1	22873.85	22873.85	RA-21
11.2.22	Supplying and fixing of 11 KV Pin insulators with porcelien shell & GI pin including fixing hardwares like nut, plate and spring washers as per KPTCL/MESCOM standards and specifications including all lead and lift.			117	94.00	10998.00	RA-22
11.2.23	Supplying and fixing of 1.1 KV class pin insulator shell with GI pin including fixing hardwares like nut, plate and spring washers as per KPTCL standards and specifications including all lead and lift.			156	38.00	5928.00	RA-23
11.2.24	Supplying and fixing of No 8 strain/ LT Shackle insulators at the dead end / cut points of LT distribution line as per KPTCL /ESCOM specifications & standards including all lead and lift.			71.5	14.00	1001.00	RA-24
	Supplying and fixing of 11 kV, 45 kN Disc insulator at the dead end / cut points of HT line including fixing hardwares like nut, plate and spring washers as per KPTCL standards and specifications including all lead and lift.			80.5	290.00	23345.00	RA-25
11.2.26	Releasing and Refixing of released 11kv Pin insulator with GI pin and fixing hardwares like nut, plate and spring washers as per KPTCL standards and specifications including all lead and lift.			134	40.60	5440.40	RA-26
11.2.27	Releasing and Refixing of released 11kv, 45 kN Disc insulators at the dead end or cut point with necessory fixing hardwares like nut & bolts, plate and spring washers as per KPTCL / ESCOM specifications & standards including all lead and lift.			80.5	49.30	3968.65	RA-27
	Releasing and re-erection after transportation to the site of 11 kV DP structure kit, for the 11 kV DP made of 9mtr long, 145 kg WL RCC poles as per Drg No. SIC/DL/WSO 18/29-7-85 with accessories like clamps, bolt & Nuts plate and spring washers etc., including erectoin of poles after digging suitable pits & all lead and lift as per KPTCL/MESCOMspecifications.	Set		5.5	8959.26	49275.93	RA-28
11.2.29	Supply & erection, transportation to the site of 11 kV DP structure kit and 9 Mtr 145 kG WL RCC poles for making 11 kV DP as per Drg No. SIC/DL/WSO 18/29-7-85 with accessories like clamps, bolt & Nuts plate and spring washers etc., including erectoin of poles after digging suitable pits & all lead and lift as per KPTCL/MESCOMspecifications.			3.5	20625.40	72188.90	RA-29
11.2.30	Releasing and removal of DP structure for mounting Transformer and handing over the released materials to MESCOM including all lead and lift.	Set		9	5928.93	53360.41	RA-30
11.2.31	Releasing and Re-errection of released 63 kVA Transformer along with associated equipment of the transfomer centre as per Dgr NoKEB/SIC/WS/022/date :12.9.86 and handing over the unused released materials to MESCOM including all lead and lift.	Por unit		2	28977.09	57954.18	RA-31.1
11.2.32	Releasing and Re-errection of released 63 kVA transformer in temperary location and shifting the same back to original loacation after completion of pipe line work along with associated equipment of the transfomer centre as per Dgr NoKEB/SIC / WS/022/date :12.9.86 and handing over the unused released materials to MESCOM including all lead and lift.	Per unit		1	57954.18	57954.18	RA-31.2
11.2.33	Releasing and Re-errection of released 100 kVA Transformer along with associated equipment of the transfomer centre as per Dgr NoKEB/SIC/WS/022/date :12.9.86 and handing over the unused materials to MESCOM including all lead and lift.	Per unit		1	32175.65	32175.65	RA-32.1
	Releasing and Re-errection of released 100 kVA transformer in temperary location and shifting the same back to original loacation after completion of pipe line work along with associated equipment of the transfomer centre as per Dgr NoKEB/SIC / WS/022/date :12.9.86 and handing over the unused released materials to MESCOM including all lead and lift.	Per unit		1	64351.29	64351.29	RA-32.2
11.2.35	Releasing and Re-errection of released 250 kVA Transformer along with associated equipment of the transfomer centre as per Dgr NoKEB/SIC/WS/022/date :12.9.86 and handing over the unused materials to MESCOM including all lead and lift.	Per unit		1	30225.11	30225.11	RA-33.1
	Releasing and Re-errection of released 250 kVA transformer in temperary location and shifting the same back to original loacation after completion of pipe line work along with associated equipment of the transfomer centre as per Dgr NoKEB/SIC / WS/022/date :12.9.86 and handing over the unused released materials to MESCOM including all lead and lift.	Per unit		1	60450.21	60450.21	RA-33.2
	Releasing and Refixing of released 200A Single Break GOS with operating handle, tandom pipe etc., and returning the unused released materials to MESCOM including all lead and lift as per KPTCL/MESCOM specifications.			6.5	1752.18	11389.17	RA-34

	_	-					T	
11.2.38	Releasing and Refixing of released HG Fuse Unit and handing over the unused released materials to MESCOM including all lead and lift as per KPTCL/MESCOM specifications.	Set			3.5	1165.37	4078.78	RA-35
	Releasing and Refixing of released Lightning Arrestors and handing over the unused released materials to MESCOM including all lead and lift as per KPTCL/MESCOMspecifications.	Set			3.5	195.61	684.62	RA-36
11.2.40	Releasing and Refixing of released LT Protection Kit and handing over the unused released materials to MESCOM including all lead and lift as per KPTCL/MESCOMspecifications.	Set			3.5	1129.55	3953.43	RA-37
11.2.41	Releasing and Refixing of released L T Distribution Box and handing over the unused released materials to MESCOM including all lead and lift as per KPTCL/MESCOMspecificstions.	Set			2	1253.53	2507.05	RA-38
11.2.42	Releasing and refixing of released street light fitting on to shifted pole including wiring and testing the connection and proper function of the fitting including all lead and lift as per MESCOM /MCC specifications.	Set			44.5	484.88	21577.16	RA-39
	Releasing and reconnection of released House Service Connection, fixing PVC pipe for taking the leads from the conductor to the pole fuse board or line conductor (including taking the lead wire inside the pvc pipe & giving connection to the overhead line & pole fuse box/ fuse board including all lead and lift as per MESCOM specifications.	Set			67	360.91	24180.64	RA-40
11.2.44	Supplying and fixing 2.5m long 2.9 mm thick 40mm dia GI pipe earth electrode for DP structures, including excavation of pit, necessary salt and charcoal, construction of masonary chamber with cover complete as specified in IS 3043 and drawing including running of 7/10SWG GI wire for connection with all lead and lift as per KPTCL/MESCOMspecifications.	Set			22.5	2057.85	46301.63	RA-41
	Releasing and restringing of released 1.1kv grade aerial bunched 5 core (3 x 95 sq mm for phase and 1 x 70 sq mm neutral and 1 x 16 sq mm street light cable, XLPE insulated stranded aluminium conductor, layed around a weather resistant black XLPE insulated AAA Messenger wire on shifted poles including all lead and lift as MESCOM/MCC specifications.	Km			1	56273.63	56273.63	RA-42
	Releasing and refixing of released guarding materials for HT & LT and P & T lines and Road Crossings etc., on shifted line complete with all necessary accessories including all lead and lifts as per IE/KPTCL Rules & Specifications.	Set			5.5	2917.55	16046.50	RA-43
11.2.47	Supplying and fixing of guarding for HT & LT lines, P & T lines and Road Crossings etc., complete with all necessary accessories including all lead and lift as per IE/KPTCL Rules & Specifications.	Set			3.5	4935.55	17274.43	RA-44
	Releasing and relaying of released 2.5 to 25sqmm size L T Under ground cable for house service connection including termination and testing for proper function including all lead and lift as per KPTCL/MESCOM/ IE rules.	Km			1	35192.37	35192.37	RA-45
11.2.49	Supplying and fixing straight through jointing kit suitable for 1.1kv class LT UG cable of size 4C \times 10 sq mm and 4C \times 16 sq mm including all lead and lift as per MESCOM Norms.	Kit			44.5	1327.00	59051.50	RA-46.1
11.2.50	Supplying and fixing straight through jointing kit suitable for 1.1kv class LT UG cable of size 3.5C x 25 sq mm $\&$ 3.5 C x 35 sq mm including all lead and lift as per MESCOM Norms.	Kit			22.50	1604.00	36090.00	RA-46.2
11.2.51	Providing at site, inclusive of all lead and lift, brand new approved make alluminium conductor PVC insulated, sheathed, steel wire armoured UG cable with PVC outer sheathing 1.1 KV class UG cable confirming to IS: 1554(P-1) - 2C X 10 SQ MM Aluminiumn cable	Km			0	72856.30	0.00	RA-47.1
11.2.52	Providing at site, inclusive of all lead and lift, brand new approved make alluminium conductor PVC insulated, sheathed, steel wire armoured UG cable with PVC outer sheathing of 1.1 KV class UG cable confirming to IS: 1554(P-1)- 4C X 10 SQ MM Aluminiumn cable.	Km			0	90073.30	0.00	RA-47.2
11.2.53	Providing at site, inclusive of all lead and lift, brand new approved make alluminium conductor PVC insulated, sheathed, steel wire armoured UG cable with PVC outer sheathing 1.1 KV class UG cable confirming to IS: 1554(P-1) - 2C X 16 SQ MM Aluminiumn cable	Km			0.5	75478.30	37739.15	RA-47.3
	Providing at site, inclusive of all lead and lift, brand new approved make alluminium conductor PVC insulated, sheathed, steel wire armoured UG cable with PVC outer sheathing of 1.1 KV class UG cable confirming to IS: 1554(P-1)- 4C X 16 SQ MM Aluminiumn cable.	Km			0.5	109051.30	54525.65	RA-47.4
	Providing at site, inclusive of all lead and lift, brand new approved make alluminium conductor PVC insulated, sheathed, steel wire armoured UG cable with PVC outer sheathing of 1.1 KV class UG cable confirming to IS: 1554(P-1)- 4C X 25 SQ MM	Km			0	128300.30	0.00	RA-47.5
	Aluminiumn cable. Releasing and relaying the existing GI/PVC pipe for house service connection including all lead and lift as per MESCOM Norms.	Mtr			886	123.98	109841.85	RA-48
	Supplying and laying of Class A, 40mm dia., GI pipe on pole /wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class.	Mtr			53	345.00	18285.00	RA-49.1
11.2.58	Digging of trench of 0.6m deep \times 0.5 m wide trench and refilling the same to the required ground level and consolidating etc., including all lead and lift, as per ESCOM specifications.	Mtr			443	78.00	34554.00	RA-50
	Providing and filling of river sand all around UG cable to a depth of 150 mm all around, laid in excavated trench as per ESCOM / KPTCL specifications	Mtr			443	103.00	45629.00	RA-51
	Temporary Shifting of HT/LT lines: Shifting of electrical poles along with HT/LT cross arms to temporary location and reshifting to original position after completion of work including all lead and lift as per the instructions of KPTCL /MESCOM Authority.	Set			9	10774.63	96971.68	RA-52

Releasing and re-erection of released 8 mtr long strut pole including calmps digging pit, concreting with all accessories at the new alignment of O H line.	Nos			9	2336.24	21026.16	RA-53
Realeasing and re-erection of three pole structure using 9 mtr long, 145 kg WL, RCC poles and structural materials in proposed location complete set including all stanadrd accessories & including all lead and lift as per MESCOM specifications /estimate.				1	13414.68	13414.68	RA-54
Total						2092472.00	
KPTCL/ESCOM registration cum processing fee, Issue of NOC, Initial security deposits, Meter security deposits, supervision, inspection charges, etc Including liaison with power supply authorities, electrical inspectorate, transmission of relevant documents, arranging for power supply, pollution control board acceptances for Genset installation and other charges including generator installation also.				1	150000.00	150000.00	
Grand Total						2242472.00	

AE Executive Engineer Superintending Engineer MSCL Mangaluru MSCL Mangaluru MSCL Mangaluru

MANGALURU SMART CITY 1.5 Rate Analysis of Underground Drainage Zone 4 Part 2 and Zone 3 Part 1

RATE ANALYSIS - UnderGround Drainage Zone 4 Part 2 and Zone 3 Part 1

	KSRRB200-8. Clearing and grubbing road land including		ruicoablo matoriale stacl
1	girth upto 300mm, by manual means, in area of light ju		rviceable materials, stack
	of serviceable materials labour charges complete as pe	er specifications	
	KSRB Pg No.136,Sl No.18.11		1
	Basic rate		6.00
	Add 12% For area weightage		0.72
		Rate	6.72 Sqm
	Cutting asphalt road surface for pipeline trenches and	disposing off the excavated stuff with all le	ead and lift as directed
2	including barricading, danger lighting etc.,		
_	KUWSDB-15-16 SI No.5.2,Pg No.17		
	Basic rate		578
	Add 12% For area weightage		69.36
	Add 1270 For area weightage	Rate	647.36 Cum
		Nate	047.30 Cum
	Cutting Concrete road surface for pipeline trenches and	d disposing off the excavated stuff with al	l lead and lift as directed
2	including barricading, danger lighting etc.,	d disposing on the excavated stail with an	i lead and int as directed
3	KUWSDB-15-16 SI No.5.3,Pg No.17		
		T	
	Basic rate		1159
	Add 12% For area weightage		139.08
		l Data I	1298.08 Cum
4	Taking out existing CC interlocking paver blocks from for unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis)	ich payment shall be made separately and	
4	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin	ootpath/ central verge, including removal ich payment shall be made separately and	
4	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate	ootpath/ central verge, including removal ich payment shall be made separately and	
4	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis)	potpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge.	stacking of serviceable 36.83 4.42
4	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate	ootpath/ central verge, including removal ich payment shall be made separately and	stacking of serviceable 36.83
4	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage	potpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge.	36.83 4.42 41.25 Sqm
4	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui	cotpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositi	36.83 4.42 41.25 Sqm ng on bank with all lead
4	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui including danger lighting and using sight rails and boni	cotpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing	36.83 4.42 41.25 Sqm ng on bank with all lead
	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui including danger lighting and using sight rails and boni meters wherever neccessary as directed in the following	cotpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing	36.83 4.42 41.25 Sqm ng on bank with all lead
	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui including danger lighting and using sight rails and boni	cotpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing	36.83 4.42 41.25 Sqm ng on bank with all lead
	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui including danger lighting and using sight rails and boni meters wherever neccessary as directed in the following	cotpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing ang Strata	36.83 4.42 41.25 Sqm ng on bank with all lead out water at every 100
5	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui including danger lighting and using sight rails and boni meters wherever neccessary as directed in the followir KUWSDB SR 15-16,Sl No 1-i-(a),Pg No 5	cotpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing ang Strata	36.83 4.42 41.25 Sqm ng on bank with all lead out water at every 100
5 i	unserviceable material to the dumping ground, for whit material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except build including danger lighting and using sight rails and boning meters wherever neccessary as directed in the following KUWSDB SR 15-16,SI No 1-i-(a),Pg No 5 do in all soils mixed mixed with boulders of 30 cms size	cotpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing ang Strata	36.83 4.42 41.25 Sqm ng on bank with all lead out water at every 100
5 i	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui including danger lighting and using sight rails and boni meters wherever neccessary as directed in the following KUWSDB SR 15-16,Sl No 1-i-(a),Pg No 5 do in all soils mixed mixed with boulders of 30 cms size 0 to 2mtr depth	rootpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing ang Strata E upto an exclusive of disintegrated rock D	36.83 4.42 41.25 Sqm Ing on bank with all lead out water at every 100 182 175.00 21.00
5 i	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui including danger lighting and using sight rails and boni meters wherever neccessary as directed in the following KUWSDB SR 15-16,SI No 1-i-(a),Pg No 5 do in all soils mixed mixed with boulders of 30 cms size of the company of t	cotpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing ang Strata	36.83 4.42 41.25 Sqm Ing on bank with all lead out water at every 100 182
5 i	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui including danger lighting and using sight rails and boni meters wherever neccessary as directed in the following KUWSDB SR 15-16,Sl No 1-i-(a),Pg No 5 do in all soils mixed mixed with boulders of 30 cms size of the company of t	rootpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing ang Strata E upto an exclusive of disintegrated rock D	36.83 4.42 41.25 Sqm Ing on bank with all lead out water at every 100 182 175.00 21.00 196.00 Cum
5 i	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui including danger lighting and using sight rails and boni meters wherever neccessary as directed in the following KUWSDB SR 15-16,SI No 1-i-(a),Pg No 5 do in all soils mixed mixed with boulders of 30 cms size of to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate	rootpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing ang Strata E upto an exclusive of disintegrated rock D	36.83 4.42 41.25 Sqm Ing on bank with all lead out water at every 100 175.00 21.00 196.00 Cum
5 i	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui including danger lighting and using sight rails and boni meters wherever neccessary as directed in the following KUWSDB SR 15-16,Sl No 1-i-(a),Pg No 5 do in all soils mixed mixed with boulders of 30 cms size of the company of t	cotpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing ang Strata E upto an exclusive of disintegrated rock Description of the company o	36.83 4.42 41.25 Sqm Ing on bank with all lead out water at every 100 182 175.00 21.00 196.00 Cum 232.00 27.84
i a b	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui including danger lighting and using sight rails and boni meters wherever neccessary as directed in the following KUWSDB SR 15-16,Sl No 1-i-(a),Pg No 5 do in all soils mixed mixed with boulders of 30 cms size of to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage	rootpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing ang Strata E upto an exclusive of disintegrated rock D	36.83 4.42 41.25 Sqm Ing on bank with all lead out water at every 100 175.00 21.00 196.00 Cum
5 i	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui including danger lighting and using sight rails and boni meters wherever neccessary as directed in the followir KUWSDB SR 15-16,Sl No 1-i-(a),Pg No 5 do in all soils mixed mixed with boulders of 30 cms size O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage	cotpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing ang Strata E upto an exclusive of disintegrated rock Description of the company o	36.83 4.42 41.25 Sqm Ing on bank with all lead out water at every 100 175.00 21.00 196.00 Cum 232.00 27.84 259.84 Cum
i a b	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui including danger lighting and using sight rails and boni meters wherever neccessary as directed in the following KUWSDB SR 15-16,Sl No 1-i-(a),Pg No 5 do in all soils mixed mixed with boulders of 30 cms size of to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate	cotpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing ang Strata E upto an exclusive of disintegrated rock Description of the company o	36.83 4.42 41.25 Sqm Ing on bank with all lead out water at every 100 175.00 21.00 196.00 Cum 232.00 27.84 259.84 Cum
i a b	unserviceable material to the dumping ground, for whi material within 50 metre lead as per direction of Engin (As per Rate analysis) Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except bui including danger lighting and using sight rails and boni meters wherever neccessary as directed in the followir KUWSDB SR 15-16,Sl No 1-i-(a),Pg No 5 do in all soils mixed mixed with boulders of 30 cms size O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage	cotpath/ central verge, including removal ich payment shall be made separately and eer-in-Charge. Rate Ilding work) including barricading depositing rods including shoring, strutting, bailing ang Strata E upto an exclusive of disintegrated rock Description of the company o	36.83 4.42 41.25 Sqm Ing on bank with all lead out water at every 100 175.00 21.00 196.00 Cum 232.00 27.84 259.84 Cum

6	including danger lighting and using sight rails and bonir		out water at ever	у тоо
-	meters wherever neccessary as directed in the followin	g Strata		
	KUWSDB SR 15-16,Sl No 1-ii-(a),Pg No 5			
	In disintegrated rock, soft rock, soft shale, medium hard	d rock comprising of lime stone, sand ston	ie, hard shale, sch	niest,
	fissured rock without resorting to blasting			
a	0 to 2mtr depth			
	Basic rate		395.00	
	Add 12% For area weightage	Poto	47.4	Cure
	2 to Americal out b	Rate	442.40	Cum
)	2 to 4mtr depth Basic rate		442.00	
	Add 12% For area weightage		53.04	
	Add 1270 For area weightage	Rate	495.04	Cum
	4 to 6mtr depth	Nate	433.04	Cuiii
	Basic rate		511.00	
	Add 12% For area weightage		61.32	
		Rate	572.32	Cum
		1.000	0,2.02	
	Earthwork excavation for pipeline trenches (Except buil	Iding work) including barricading denocitie	ag on hank with a	ال امعد
7	including danger lighting and using sight rails and boning		out water at ever	ry 100
	meters wherever neccessary as directed in the followin	g Strata		
	KUWSDB SR 15-16,Sl No 1-iii-(a),Pg No 7			
	In hard laterite rock or hard laterite rock containing iron	n ore upto 20% by chistelling and trimmin	g to proper slope	
3	0 to 2mtr depth			
	Basic rate		602.00	
			72.24	
	Add 12% For area weightage		/ 2.24	
	Add 12% For area weightage	Rate	674.24	Cum
)	2 to 4mtr depth	Rate		Cum
)		Rate		
)	2 to 4mtr depth	Rate	721.00 86.52	
0	2 to 4mtr depth Basic rate	Rate	674.24 721.00	
	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth		721.00 86.52 807.52	Cum
	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate		721.00 86.52 807.52 781.00	Cum
	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth		721.00 86.52 807.52 781.00 93.72	Cum
	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate		721.00 86.52 807.52 781.00	Cum
	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage	Rate	721.00 86.52 807.52 781.00 93.72 874.72	Cum
	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except buil	Rate Rate Rate	721.00 86.52 807.52 781.00 93.72 874.72	Cum Il lead
C	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage	Rate Rate Rate	721.00 86.52 807.52 781.00 93.72 874.72	Cum Il lead
C	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except buil	Rate Rate Iding work) including barricading depositing rods including shoring, strutting, bailing	721.00 86.52 807.52 781.00 93.72 874.72	Cum Il lead
C	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except buil including danger lighting and using sight rails and boning	Rate Rate Iding work) including barricading depositing rods including shoring, strutting, bailing	721.00 86.52 807.52 781.00 93.72 874.72	Cum Il lead
C	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except buil including danger lighting and using sight rails and bonir meters wherever neccessary as directed in the followin KUWSDB SR 15-16,SI No 1-iv-(a),Pg No 7	Rate Rate Iding work) including barricading depositing rods including shoring, strutting, bailing ag Strata	721.00 86.52 807.52 781.00 93.72 874.72	Cum Il lead
33	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except build including danger lighting and using sight rails and boning meters wherever neccessary as directed in the following KUWSDB SR 15-16,Sl No 1-iv-(a),Pg No 7 In hard laterite rock containing iron ore above 20% by containing iron	Rate Rate Iding work) including barricading depositing rods including shoring, strutting, bailing ag Strata	721.00 86.52 807.52 781.00 93.72 874.72	Cum Il lead
33	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except buil including danger lighting and using sight rails and bonir meters wherever neccessary as directed in the followin KUWSDB SR 15-16,Sl No 1-iv-(a),Pg No 7 In hard laterite rock containing iron ore above 20% by containing iron or	Rate Rate Iding work) including barricading depositing rods including shoring, strutting, bailing ag Strata	721.00 86.52 807.52 781.00 93.72 874.72 ng on bank with a out water at ever	Cum Il lead
6 6 8	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except buil including danger lighting and using sight rails and bonin meters wherever neccessary as directed in the followin KUWSDB SR 15-16,Sl No 1-iv-(a),Pg No 7 In hard laterite rock containing iron ore above 20% by co 0 to 2mtr depth Basic rate	Rate Rate Iding work) including barricading depositing rods including shoring, strutting, bailing ag Strata	721.00 86.52 807.52 781.00 93.72 874.72 ng on bank with a out water at ever	Cum Il lead
3	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except buil including danger lighting and using sight rails and bonir meters wherever neccessary as directed in the followin KUWSDB SR 15-16,Sl No 1-iv-(a),Pg No 7 In hard laterite rock containing iron ore above 20% by containing iron or	Rate Rate Iding work) including barricading depositir ng rods including shoring, strutting, bailing ag Strata Chistelling and trimming to proper slope	721.00 86.52 807.52 781.00 93.72 874.72 ng on bank with a out water at ever	Cum Il lead
3	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except buil including danger lighting and using sight rails and bonir meters wherever neccessary as directed in the followin KUWSDB SR 15-16,SI No 1-iv-(a),Pg No 7 In hard laterite rock containing iron ore above 20% by co 0 to 2mtr depth Basic rate Add 12% For area weightage	Rate Rate Iding work) including barricading depositing rods including shoring, strutting, bailing ag Strata	721.00 86.52 807.52 781.00 93.72 874.72 ng on bank with a out water at ever	Cum Il lead
3	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except buil including danger lighting and using sight rails and bonin meters wherever neccessary as directed in the followin KUWSDB SR 15-16,Sl No 1-iv-(a),Pg No 7 In hard laterite rock containing iron ore above 20% by co 0 to 2mtr depth Basic rate	Rate Rate Iding work) including barricading depositir ng rods including shoring, strutting, bailing ag Strata Chistelling and trimming to proper slope	721.00 86.52 807.52 781.00 93.72 874.72 ng on bank with a out water at ever	Cum Il lead Ty 100
3	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except buil including danger lighting and using sight rails and bonir meters wherever neccessary as directed in the followin KUWSDB SR 15-16,Sl No 1-iv-(a),Pg No 7 In hard laterite rock containing iron ore above 20% by containing to the following days are to the following days of	Rate Rate Iding work) including barricading depositir ng rods including shoring, strutting, bailing ag Strata Chistelling and trimming to proper slope	721.00 86.52 807.52 781.00 93.72 874.72 ng on bank with a out water at ever	Cum Il lead Ty 100
3 3	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except buil including danger lighting and using sight rails and bonin meters wherever neccessary as directed in the followin KUWSDB SR 15-16,Sl No 1-iv-(a),Pg No 7 In hard laterite rock containing iron ore above 20% by containing trenches (Except buil including danger lighting and using sight rails and boning meters wherever neccessary as directed in the followin KUWSDB SR 15-16,Sl No 1-iv-(a),Pg No 7 In hard laterite rock containing iron ore above 20% by contain	Rate Rate Iding work) including barricading depositing rods including shoring, strutting, bailing ag Strata Chistelling and trimming to proper slope Rate	721.00 86.52 807.52 781.00 93.72 874.72 ng on bank with a out water at ever 1277.00 153.24 1430.24	Cum Il lead ry 100
33	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except buil including danger lighting and using sight rails and bonir meters wherever neccessary as directed in the followin KUWSDB SR 15-16,Sl No 1-iv-(a),Pg No 7 In hard laterite rock containing iron ore above 20% by containing to the following data of the	Rate Rate Iding work) including barricading depositir ng rods including shoring, strutting, bailing ag Strata Chistelling and trimming to proper slope	721.00 86.52 807.52 781.00 93.72 874.72 ng on bank with a out water at ever	Cum Il lead ry 100
3 3	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except buil including danger lighting and using sight rails and bonin meters wherever neccessary as directed in the followin KUWSDB SR 15-16,Sl No 1-iv-(a),Pg No 7 In hard laterite rock containing iron ore above 20% by containing to the followin basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth	Rate Rate Iding work) including barricading depositing rods including shoring, strutting, bailing ag Strata Chistelling and trimming to proper slope Rate	721.00 86.52 807.52 781.00 93.72 874.72 ng on bank with a out water at ever 1277.00 153.24 1430.24 1340.00 160.8 1500.80	Cum Il lead Ty 100 Cum
33	2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Earthwork excavation for pipeline trenches (Except buil including danger lighting and using sight rails and bonir meters wherever neccessary as directed in the followin KUWSDB SR 15-16,Sl No 1-iv-(a),Pg No 7 In hard laterite rock containing iron ore above 20% by containing to the following data of the	Rate Rate Iding work) including barricading depositing rods including shoring, strutting, bailing ag Strata Chistelling and trimming to proper slope Rate	721.00 86.52 807.52 781.00 93.72 874.72 ng on bank with a out water at ever 1277.00 153.24 1430.24	Cum Il lead Ty 100 Cum

	Earthwork excavation for pipeline trenches (Except buil	iding work) including parricading depo	balling off ballik with a	
_	including danger lighting and using sight rails and boning	ng rods including shoring,strutting,ba	ling out water at eve	ery 100
9	meters wherever neccessary as directed in the followin	ng Strata		
	KUWSDB SR 15-16,Sl No 1-vi-(a),Pg No 9			
	In hard rock by Controlled blasting			
a	0 to 2mtr depth			
	Basic rate		884.00	
	Add		378.00	+
	Add 12% For area weightage		151.44	
	The same area were strength and the same area were strength an	Rate	1413.44	
b	2 to 4mtr depth	113.00		100
	Basic rate		1020.00	
	Add		378.00	
	Add 12% For area weightage		167.76	
	rad 1270 For dred Weightage	Rate	1565.76	
	4 to 6mtr depth	, nate	1303.70	- Cum
	Basic rate		1065.00	
	Add		378.00	
	Add 12% For area weightage		173.16	
	rida 1270 For area Weightage	Rate	1616.16	
		Hate	1010.10	Team
	meters wherever neccessary as directed in the followin	ig Julata		
	KUWSDB SR 15-16,Sl No 1-v-(a),Pg No 7 In hard rock by chistelling			
a	In hard rock by chistelling O to 2mtr depth			
a	In hard rock by chistelling O to 2mtr depth Basic rate		1590.00	
а	In hard rock by chistelling O to 2mtr depth		190.8	,
	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage	Rate		,
a	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth		190.8 1780.80	Cum
	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate		190.8 1780.80	Cum
	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth	Rate	190.8 1780.80 1706.00 204.72	Cum
b	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage		190.8 1780.80	Cum
	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth	Rate	190.8 1780.80 1706.00 204.72 1910.72	Cum
b	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Basic rate	Rate	190.8 1780.80 1706.00 204.72 1910.72	Cum
b	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth	Rate	190.8 1780.80 1706.00 204.72 1910.72 1764.00 211.68	Cum
b	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Basic rate	Rate	190.8 1780.80 1706.00 204.72 1910.72	Cum
b	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Providing course sand bedding for the pipeline trenches all lead and lift (In black cotton and rock reaches)	Rate	190.8 1780.80 1706.00 204.72 1910.72 1764.00 211.68 1975.68	Cum
b c	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Providing course sand bedding for the pipeline trencherall lead and lift (In black cotton and rock reaches) KUWSDB 15-16,Pg No 17,Sl No.6	Rate	190.8 1780.80 1706.00 204.72 1910.72 1764.00 211.68 1975.68	Cum Cum
b c	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Providing course sand bedding for the pipeline trenches all lead and lift (In black cotton and rock reaches) KUWSDB 15-16,Pg No 17,Sl No.6 Basic rate	Rate	190.8 1780.80 1706.00 204.72 1910.72 1764.00 211.68 1975.68 1 by punners etc.,con	Cum Cum
b c	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Providing course sand bedding for the pipeline trencherall lead and lift (In black cotton and rock reaches) KUWSDB 15-16,Pg No 17,Sl No.6	Rate Rate Rate Sincluding watering and consolidation	190.8 1780.80 1706.00 204.72 1910.72 1764.00 211.68 1975.68 1616.00 193.92	Cum Cum nplete wi
b C	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Providing course sand bedding for the pipeline trenches all lead and lift (In black cotton and rock reaches) KUWSDB 15-16,Pg No 17,Sl No.6 Basic rate	Rate	190.8 1780.80 1706.00 204.72 1910.72 1764.00 211.68 1975.68 1 by punners etc.,con	Cum Cum nplete w
b C	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Providing course sand bedding for the pipeline trenches all lead and lift (In black cotton and rock reaches) KUWSDB 15-16,Pg No 17,Sl No.6 Basic rate	Rate Rate Rate Rate Rate Rate S including watering and consolidation Rate Ches including watering and consolidation Rate Ches including watering and consolidation Rate Ches including watering and consolidation Rate	190.8 1780.80 1706.00 204.72 1910.72 1764.00 211.68 1975.68 1 by punners etc.,con 1616.00 193.92 1809.92	Cum Cum Cum Cum Cum cum
b	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Providing course sand bedding for the pipeline trencherall lead and lift (In black cotton and rock reaches) KUWSDB 15-16,Pg No 17,Sl No.6 Basic rate Add 12% For area weightage Providing Muram/Gravel Bedding for the pipeline trencherall lead and lift as directed including barricading, domplete, for all type of soils excluding black cotton so	Rate Rate Rate Rate Rate Rate Including watering and consolidation Rate Ches including watering and consolidation Rate Ches including watering and consolidation Rate Ches including watering and consolidation Rate	190.8 1780.80 1706.00 204.72 1910.72 1764.00 211.68 1975.68 1 by punners etc.,con 1616.00 193.92 1809.92	Cum Cum Cum Cum Cum complete wi
b c 11	In hard rock by chistelling O to 2mtr depth Basic rate Add 12% For area weightage 2 to 4mtr depth Basic rate Add 12% For area weightage 4 to 6mtr depth Basic rate Add 12% For area weightage Providing course sand bedding for the pipeline trencherall lead and lift (In black cotton and rock reaches) KUWSDB 15-16,Pg No 17,Sl No.6 Basic rate Add 12% For area weightage Providing Muram/Gravel Bedding for the pipeline trencherall lead and lift as directed including barricading, domplete, for all type of soils excluding black cotton so KUWSDB Pg No.17,Sl No.6.1,6.2	Rate Rate Rate Rate Rate Rate Including watering and consolidation Rate Ches including watering and consolidation Rate Ches including watering and consolidation Rate Ches including watering and consolidation Rate	190.8 1780.80 1706.00 204.72 1910.72 1764.00 211.68 1975.68 1 by punners etc.,con 1616.00 193.92 1809.92	Cum Cum Cum Cum Cum complete wi

13	Providing and laying in position plain cement concrete of M15 grade with ce graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ machine mixed, concrete laid, well compacted, including cost and conveyan unloading, labour, hire charges of machinery, T&P., curing and all other incide completion of the work and as directed by the Engineer -in-charge of the work and drians	0.45cum for foundace of all materials, all dental items of work	ation and levelling I leads and lifts, lo required for succ	course, ading and essful
	KSRB 16-17, Pg No.12,Sl No.4.1			
	Basic rate		5441.00	
	Add 12% For area weightage		652.92	
		Rate	6093.92	Cum
14	mark and conveying to worksite, rolling and lowering into trenches, Laying tr joints, testing and commissioning, including loading and unloading at both de including jointing of UPVC Pipes (with cost of elastomeric sealing rings) and of approved type, with all labour with all lead and lift including encasing the with soft gravel or selected earth available from the excavation etc., comple required pressure as per ISS (Contractor will make his own arrangements for KUWSDB, Pg No 205 and 207, Sl No 4.3	estinations and cuts of specials (excluding of pipe alround to a de te and giving neccess	of pipes wherever cost of specials) w pth of not less that sary hydraulic test	necessary ith jointing an 15cms
	Supply and laying of PVC- U Pipes as per IS 15328 SN 4 -Ring tite: 200mm			
	Basic Material Rate		754.00	
	Labour Rate		45	
	Add 12% For area weightage For labour		5.4	
		Rate	804.40	Rmt
15	Supplying Unplasticised PVC pipes confirming to IS 15328:2003 with latest a mark and conveying to worksite, rolling and lowering into trenches, Laying trejoints, testing and commissioning, including loading and unloading at both definctuding jointing of UPVC Pipes (with cost of elastomeric sealing rings) and of approved type, with all labour with all lead and lift including encasing the with soft gravel or selected earth available from the excavation etc., complete required pressure as per ISS (Contractor will make his own arrangements for KUWSDB, Pg No 205 and 207, Sl No 4.4	ue to line and level a estinations and cuts of specials (excluding of pipe alround to a de te and giving neccess	and perfect linking of pipes wherever cost of specials) we pth of not less that sary hydraulic test	at necessary ith jointing an 15cms
	Supply and laying of PVC- U Pipes as per IS 15328 SN 4 -Ring tite: 250mm			
	Basic Material Rate		1193.00	
	Labour Rate		48	
	Add 12% For area weightage For labour		5.76	
		•		

	Supplying Unplasticised PVC pipes confirming to IS 15328:2003 with lates	t amendments ended v	with integral sock	ets with
	mark and conveying to worksite, rolling and lowering into trenches, Laying	true to line and level ar	nd perfect linking	; at
	joints, testing and commissioning, including loading and unloading at both	destinations and cuts of	f pipes wherever	necess
	including jointing of UPVC Pipes (with cost of elastomeric sealing rings) an	d specials (excluding co	ost of specials) w	ith joint
16	of approved type, with all labour with all lead and lift including encasing th	e pipe alround to a dep	oth of not less tha	an 15cm
	with soft gravel or selected earth available from the excavation etc.,comp	lete and giving neccessa	ary hydraulic test	t to the
	required pressure as per ISS (Contractor will make his own arrangements	for procuring water for	r testing)	
	KUWSDB,Pg No 207 and 207,Sl No b1			
	Supply and laying of PVC- U Pipes as per IS 15328 SN 8 -Ring tite: 110mm			
	Basic rate Material Rate		269.00	
	Labour Rate		33	
	Add 12% For area weightage For labour		3.96	
	/ tad 12/01 of a ca weightage for labour	Poto		
		Rate	305.96	KML
	Construction RCC M25 circular inspection chamber 600 mm dia x 600mm with M15 PCC bed for 100 mm thick using mix with cement @240 kgs granclean sieved river sand, M25 RCC raft & sidewall concrete with 20mm and floating coat of cement on walls and bed concrete complete, including fix	depth (clear inside dimenite graded metal of 20 downsize granite metal	ension) for single mm and down si al, , finish smooth	pipeling ize and n with a
17	with M15 PCC bed for 100 mm thick using mix with cement @240 kgs gran	depth (clear inside dimented in the graded metal of 20 displayed displayed displayed in the displayed displayed in the displayed display	ension) for single mm and down si al, , finish smooth es, including con with latest ame	e pipelin ize and n with a veying t
17	with M15 PCC bed for 100 mm thick using mix with cement @240 kgs grandle clean sieved river sand, M25 RCC raft & sidewall concrete with 20mm and floating coat of cement on walls and bed concrete complete, including fix work spot supply and fixing SFRC manhole cover and frame (Heavy Duty) per standard design including cost of reinforcement, all materials, labour of As Per Data Rate	depth (clear inside dimented in the graded metal of 20 displayed displayed displayed in the displayed displayed in the displayed display	ension) for single mm and down si al, , finish smooth es, including con with latest amen te as per specifica	e pipeling ize and n with a veying t ndments ations.
17	with M15 PCC bed for 100 mm thick using mix with cement @240 kgs grandlean sieved river sand, M25 RCC raft & sidewall concrete with 20mm and floating coat of cement on walls and bed concrete complete, including fix work spot supply and fixing SFRC manhole cover and frame (Heavy Duty) per standard design including cost of reinforcement, all materials, labour of	depth (clear inside dimente graded metal of 20 didownsize granite metal downsize granite metal dimente and grouting of piper confirming to IS: 12592 charges, curing complet	ension) for single mm and down si al, , finish smooth es, including con with latest amen te as per specifica	pipelin ize and n with a veying t ndment ations.
17	with M15 PCC bed for 100 mm thick using mix with cement @240 kgs grandle clean sieved river sand, M25 RCC raft & sidewall concrete with 20mm and floating coat of cement on walls and bed concrete complete, including fix work spot supply and fixing SFRC manhole cover and frame (Heavy Duty) per standard design including cost of reinforcement, all materials, labour of As Per Data Rate	depth (clear inside dimented in the graded metal of 20 displayed displayed displayed in the displayed displayed in the displayed display	ension) for single mm and down si al, , finish smooth es, including con with latest amen te as per specifica	e pipelin ize and n with a veying t ndment ations.
17	with M15 PCC bed for 100 mm thick using mix with cement @240 kgs grandle clean sieved river sand, M25 RCC raft & sidewall concrete with 20mm and floating coat of cement on walls and bed concrete complete, including fix work spot supply and fixing SFRC manhole cover and frame (Heavy Duty) per standard design including cost of reinforcement, all materials, labour of As Per Data Rate Basic rate	depth (clear inside dimente graded metal of 20 dimente graded metal of 20 dimente dimente granite metal dimente granite metal dimente granite metal dimente granite metal granite gran	ension) for single mm and down si al, , finish smooth es, including con with latest amen te as per specifica 6637.00 6637.00	e pipelin ize and n with a veying t ndment ations.
17	with M15 PCC bed for 100 mm thick using mix with cement @240 kgs granclean sieved river sand, M25 RCC raft & sidewall concrete with 20mm and floating coat of cement on walls and bed concrete complete, including fix work spot supply and fixing SFRC manhole cover and frame (Heavy Duty) per standard design including cost of reinforcement, all materials, labour of As Per Data Rate Basic rate Making connections of drain or sewer line of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design including cost of size 100mm to 230mm external design includ	depth (clear inside dimente graded metal of 20 didownsize granite metaking and grouting of piptonfirming to IS: 12592 charges, curing complete Rate	ension) for single mm and down si al, , finish smooth bes, including con with latest amente as per specificated as for specificated anhole including lanhole including landout and landout l	e pipelin ize and n with a veying t ndment ations.
	with M15 PCC bed for 100 mm thick using mix with cement @240 kgs granclean sieved river sand, M25 RCC raft & sidewall concrete with 20mm and floating coat of cement on walls and bed concrete complete, including fix work spot supply and fixing SFRC manhole cover and frame (Heavy Duty) per standard design including cost of reinforcement, all materials, labour of As Per Data Rate Basic rate Making connections of drain or sewer line of size 100mm to 230mm exter into and making good the walls, floors with cement concrete M15 with 20	depth (clear inside dimente graded metal of 20 didownsize granite metaking and grouting of pipe confirming to IS: 12592 charges, curing complete the complete metaking and dia with existing mammand downsize granite dimensize gran	ension) for single mm and down si al, , finish smooth res, including con with latest amerate as per specificate as per specificate and formula including late metal mix ce	pipeling to a pi
	with M15 PCC bed for 100 mm thick using mix with cement @240 kgs granclean sieved river sand, M25 RCC raft & sidewall concrete with 20mm and floating coat of cement on walls and bed concrete complete, including fix work spot supply and fixing SFRC manhole cover and frame (Heavy Duty) per standard design including cost of reinforcement, all materials, labour of As Per Data Rate Basic rate Making connections of drain or sewer line of size 100mm to 230mm exter into and making good the walls, floors with cement concrete M15 with 20 plastered on both sides with cement mortar 1:3 finished with a floating considerable concrete making good the walls, floors with cement with a floating considerable concrete mortal concrete making considerable concrete making concrete ma	depth (clear inside dimente graded metal of 20 didownsize granite metaking and grouting of pipe confirming to IS: 12592 charges, curing complete the complete metaking and dia with existing mammand downsize granite dimensize gran	ension) for single mm and down si al, , finish smooth res, including con with latest amerate as per specificate as per specificate and formula including late metal mix ce	pipelin ize and n with a veying to ndment ations. Nos breaking ment
	with M15 PCC bed for 100 mm thick using mix with cement @240 kgs granclean sieved river sand, M25 RCC raft & sidewall concrete with 20mm and floating coat of cement on walls and bed concrete complete, including fix work spot supply and fixing SFRC manhole cover and frame (Heavy Duty) per standard design including cost of reinforcement, all materials, labour of As Per Data Rate Basic rate Making connections of drain or sewer line of size 100mm to 230mm exter into and making good the walls, floors with cement concrete M15 with 20	depth (clear inside dimente graded metal of 20 didownsize granite metaking and grouting of pipe confirming to IS: 12592 charges, curing complete the complete metaking and dia with existing mammand downsize granite dimensize gran	ension) for single mm and down si al, , finish smooth res, including con with latest amerate as per specificate as per specificate and formula including late metal mix ce	pipeling to a pi
	with M15 PCC bed for 100 mm thick using mix with cement @240 kgs grandlean sieved river sand, M25 RCC raft & sidewall concrete with 20mm and floating coat of cement on walls and bed concrete complete, including fix work spot supply and fixing SFRC manhole cover and frame (Heavy Duty) per standard design including cost of reinforcement, all materials, labour of As Per Data Rate Basic rate Making connections of drain or sewer line of size 100mm to 230mm exters into and making good the walls, floors with cement concrete M15 with 20 plastered on both sides with cement mortar 1:3 finished with a floating confort the drain etc., complete	depth (clear inside dimente graded metal of 20 didownsize granite metaking and grouting of pipe confirming to IS: 12592 charges, curing complete the complete metaking and dia with existing mammand downsize granite dimensize gran	ension) for single mm and down si al, , finish smooth res, including con with latest amerate as per specificate as per specificate and formula including late metal mix ce	pipelin ize and n with a veying to ndment ations. Nos breaking ment y chann
17	with M15 PCC bed for 100 mm thick using mix with cement @240 kgs grandlean sieved river sand, M25 RCC raft & sidewall concrete with 20mm and floating coat of cement on walls and bed concrete complete, including fix work spot supply and fixing SFRC manhole cover and frame (Heavy Duty) per standard design including cost of reinforcement, all materials, labour of As Per Data Rate Making connections of drain or sewer line of size 100mm to 230mm externinto and making good the walls, floors with cement concrete M15 with 20 plastered on both sides with cement mortar 1:3 finished with a floating conforthe drain etc., complete PWD SR 2016-17,SI No.11.47.3,Pg No.73	depth (clear inside dimente graded metal of 20 didownsize granite metaking and grouting of pipe confirming to IS: 12592 charges, curing complete the complete metaking and dia with existing mammand downsize granite dimensize gran	ension) for single mm and down si al, , finish smooth es, including con with latest amerate as per specificate as per specificate and fite metal mix ce making necessary	pipelin ize and n with a veying the ndment ations. Nos breaking ment y chann

Constructing RCC Manhole chamber of 1:1.5:3 proportion or approved type pre-cast RCC manhole chambers, constructed using form vibrators of standard type, with barricading, danger lighting and using of sight rails and boning rods wherever necessary, shoring and strutting wherever required using ordinary port land cement, using 1:1.5:3 proportion RCC with 20 mm and down graded jelly, well graded sand and steel of approved quality, 200 mm thick top concrete slab, having wall thickness and raft thickness as in approved drawings and with an offset in raft alround the chamber as in approved drawing, benching concrete with 1:6 slope towards the central drain finished smooth, including fixing and grouting of pipes, including conveying to work spot supply and fixing SFRC manhole cover and frame (Heavy Duty) confirming to IS: 12592 with latest amendments, on a bed of CC 1:2:4 supplying and fixing of minimum 3 mm thick encapsulated plastic footsteps (as per IS 10910) on 12 mm dia. Grade Fe-415 steel bar (as per IS 1786) staggered at 300 mm apart as detailed in Technical specifications, including sand bedding wherever required, disposal of surplus earth, watering, curing, engraving manhole number with flow direction on the inner cylindrical surface etc., complete including cost of reinforcement steel and fabrication charges and also cost and conveyance of all materials, labour with all lead and lifts for various diameters and depths noted below as per specification, drawing and as directed by the Engineer inclusive of earth work excavation in all type of soil.

19

\	1.2 m dia manholes			
<u>` </u>	For 1.0 m depth			
	Basic rate		37961.00	
	Add 12% For Area weightage		4555.32	
	The Later of the Control of the Cont	Rate	42516.32	Nos
)	For 1.1 m depth		•	
	Basic rate		39355.00	
	Add 12% For Area weightage		4722.60	
		Rate	44077.60	Nos
	For 1.2 m depth			
	Basic rate		40751.00	
	Add 12% For Area weightage		4890.12	
		Rate	45641.12	Nos
	For 1.3 m depth			
	Basic rate		42075.00	
	Add 12% For Area weightage		5049.00	
		Rate	47124.00	Nos
	For 1.4 m depth			
	Basic rate		43470.00	
	Add 12% For Area weightage		5216.40	
		Rate	48686.40	Nos
	For 1.5 m depth			
	Basic rate		44865.00	
	Add 12% For Area weightage		5383.80	
		Rate	50248.80	Nos
	For 1.6 m depth			
	Basic rate		46261.00	
	Add 12% For Area weightage		5551.32	
		Rate	51812.32	Nos
	For 1.7 m depth			
	Basic rate		47655.00	
	Add 12% For Area weightage		5718.60	
		Rate	53373.60	Nos
	For 1.8 m depth			
	Basic rate		48980.00	
	Add 12% For Area weightage		5877.60	
		Rate	54857.60	Nos
	For 1.9 m depth		,	
	Basic rate		50375.00	
	Add 12% For Area weightage		6045.00	

k	For 2.0m depth	<u> </u>		
	Basic rate		52132.00	
	Add 12% For Area weightage		6255.84	
		Rate	58387.84	-
	For 2.1m depth Difference of basic rate for Manhole depth 2m & 3m (66422-	-52132)	14290	-
	for every 0.1m depth of manhole (Difference/10)		1429	
	Basic rate		53561.00	
	Add 12% For Area weightage		6427.32	
		Rate	59988.32	Nos
m	For 2.2m depth			1
	Basic rate		54990.00	
	Add 12% For Area weightage		6598.80	
		Rate	61588.80	Nos
n	For 2.3m depth			
	Basic rate		56419.00	
	Add 12% For Area weightage		6770.28	
		Rate	63189.28	Nos
0	For 2.4m depth			
	Basic rate		57848.00	
	Add 12% For Area weightage		6941.76	
		Rate	64789.76	Nos
р	For 2.5m depth			
	Basic rate		59277.00	
	Add 12% For Area weightage		7113.24	
		Rate	66390.24	Nos
q	For 2.6m depth			
	Basic rate		60706.00	
	Add 12% For Area weightage		7284.72	
		Rate	67990.72	Nos
r	For 2.7m depth	•		
	Basic rate		62135.00	
	Add 12% For Area weightage		7456.20	
		Rate	69591.20	Nos
S	For 2.8m depth			
	Basic rate		63564.00	
	Add 12% For Area weightage		7627.68	
		Rate	71191.68	
t	For 2.9m depth			ļ
	Basic rate		64993.00	
	Add 12% For Area weightage		7799.16	
		Rate	72792.16	
ı	For 3.0m depth		1 - 1 - 1 - 1 - 1	1
-	Basic rate	1	66422.00	
	Add 12% For Area weightage		7970.64	
		Rate	74392.64	
В	1.5 m dia manholes			1-1-5
a	For 3.1m depth Difference of basic rate for Manhole depth 3m & 4m (100811	83642)	17169	
<u> </u>	for every 0.1m depth of manhole (Difference/10)		1716.9	
	Basic rate		85358.90	
	Add 12% For Area weightage		10243.07	
	7.66 1270 FOLFATCH Weightuge	Rate	95601.97	
b	For 3.2m depth	Nute	33001.37	11403
IJ	Basic rate	1	87075.80	
			10449.10	
	Add 12% For Area weightage	Pata		
	For 2 2m double	Rate	97524.90	INOS
С	For 3.3m depth		00702 70	l
	Basic rate		88792.70	
	Add 12% For Area weightage	D-11	10655.12	
		Rate	99447.82	NOS

	Basic rate		90509.60	
	Add 12% For Area weightage		10861.15	
		Rate	101370.75	Nos
е	For 3.5m depth	,		ı
	Basic rate		92226.50	
	Add 12% For Area weightage	_	11067.18	
		Rate	103293.68	Nos
f	For 3.6m depth		02042.42	Ι
	Basic rate		93943.40	
	Add 12% For Area weightage	Data	11273.21	Non
	For 2 7m double	Rate	105216.61	INOS
g	For 3.7m depth Basic rate		95660.30	<u> </u>
	Add 12% For Area weightage		11479.24	
	Add 1270 FOF Area Weightage	Rate	107139.54	
h	For 3.8m depth	nate	10/133.34	1.103
	Basic rate		97377.20	
	Add 12% For Area weightage		11685.26	
		Rate	109062.46	
i	For 3.9m depth			
	Basic rate		99094.10	
	Add 12% For Area weightage		11891.29	
		Rate	110985.39	Nos
j	For 4.0m depth			-
	Basic rate		100811.00	
	Add 12% For Area weightage		12097.32	
		Rate	112908.32	Nos
k	For 4.1m depth Difference of basic rate for Manhole depth 4m & 5m (12	5272-100811)	24461	
	for every 0.1m depth of manhole (Difference/10)		2446.1	
	Basic rate		103257.10	
	Add 12% For Area weightage		12390.85	
		Rate	115647.95	Nos
<u> </u>	For 4.2m depth			<u> </u>
		I	105703.20	
	Basic rate			
	Add 12% For Area weightage		12684.38	
		Rate		
20	Providing and fixing Drop arrangements ,with following diameter HDPE Gard 1995 with latest amendments vertical drop pipe with MS fastenings at 300 m HDPE T joint at top with incoming sewer with one end of Tee inside the man the bottom with HDPE Specials and encasing the pipe outside manhole with mm thick alround the HDPE pipe including vibrating,Compacting,Necessary cost and conveyance of all materials,labour with all lead and lift etc.,complet the engineer in charge	e PE-100 Pipes,co nm dia C/C,with s hole closed with o cement concrete entering and form	12684.38 118387.58 Infirming to PN 6 as uitable expander /reend cap and 45 degree of 1:2:4 proportion mwork, curing testing	Nos per IS 4 educer ee bend ,150/20 g,includi
20	Providing and fixing Drop arrangements, with following diameter HDPE Gard 1995 with latest amendments vertical drop pipe with MS fastenings at 300 m HDPE T joint at top with incoming sewer with one end of Tee inside the man the bottom with HDPE Specials and encasing the pipe outside manhole with mm thick alround the HDPE pipe including vibrating, Compacting, Necessary cost and conveyance of all materials, labour with all lead and lift etc., complete	e PE-100 Pipes,co nm dia C/C,with s hole closed with o cement concrete entering and form	12684.38 118387.58 Infirming to PN 6 as uitable expander /reend cap and 45 degree of 1:2:4 proportion mwork, curing testing	per IS 4 educer ee bend ,150/20 g,includi directed
20	Providing and fixing Drop arrangements ,with following diameter HDPE Gard 1995 with latest amendments vertical drop pipe with MS fastenings at 300 m HDPE T joint at top with incoming sewer with one end of Tee inside the man the bottom with HDPE Specials and encasing the pipe outside manhole with mm thick alround the HDPE pipe including vibrating,Compacting,Necessary cost and conveyance of all materials,labour with all lead and lift etc.,complet the engineer in charge BWSSB SI No.98,Pg No.91 For 150/200 mm dia incoming sewer pipe - Zone 4 Part 2 Basic Rate	e PE-100 Pipes,co nm dia C/C,with s hole closed with o cement concrete entering and form	12684.38 118387.58 Infirming to PN 6 as uitable expander /reend cap and 45 degree of 1:2:4 proportion mwork, curing testing tion drawing and as	per IS 4 educer ee bend ,150/20 g,includi directed
20	Providing and fixing Drop arrangements ,with following diameter HDPE Gard 1995 with latest amendments vertical drop pipe with MS fastenings at 300 m HDPE T joint at top with incoming sewer with one end of Tee inside the man the bottom with HDPE Specials and encasing the pipe outside manhole with mm thick alround the HDPE pipe including vibrating,Compacting,Necessary cost and conveyance of all materials,labour with all lead and lift etc.,complet the engineer in charge BWSSB SI No.98,Pg No.91 For 150/200 mm dia incoming sewer pipe - Zone 4 Part 2	e PE-100 Pipes,co nm dia C/C,with s hole closed with o cement concrete entering and form	12684.38 118387.58 Infirming to PN 6 as uitable expander /reend cap and 45 degree of 1:2:4 proportion mwork, curing testing tion drawing and as	per IS 4 educer ee bend ,150/20 g,includi directed
	Providing and fixing Drop arrangements ,with following diameter HDPE Gard 1995 with latest amendments vertical drop pipe with MS fastenings at 300 m HDPE T joint at top with incoming sewer with one end of Tee inside the man the bottom with HDPE Specials and encasing the pipe outside manhole with mm thick alround the HDPE pipe including vibrating,Compacting,Necessary cost and conveyance of all materials,labour with all lead and lift etc.,complet the engineer in charge BWSSB SI No.98,Pg No.91 For 150/200 mm dia incoming sewer pipe - Zone 4 Part 2 Basic Rate	e PE-100 Pipes, commodia C/C, with shole closed with concrete entering and forme as perspecificate. Rate trench excavation	12684.38 118387.58 Infirming to PN 6 as uitable expander /reend cap and 45 degree of 1:2:4 proportion mwork, curing testing tion drawing and as 4279.00 513.48 4792.48 In and foundation in and foundation in the second	per IS 4 educer ee bend ,150/20 g,includi directed
	Add 12% For Area weightage Providing and fixing Drop arrangements ,with following diameter HDPE Gard 1995 with latest amendments vertical drop pipe with MS fastenings at 300 m HDPE T joint at top with incoming sewer with one end of Tee inside the man the bottom with HDPE Specials and encasing the pipe outside manhole with mm thick alround the HDPE pipe including vibrating,Compacting,Necessary cost and conveyance of all materials,labour with all lead and lift etc.,complet the engineer in charge BWSSB SI No.98,Pg No.91 For 150/200 mm dia incoming sewer pipe - Zone 4 Part 2 Basic Rate Add 12% For Area weightage Refilling Pipeline Trenches and foundation with selected available earth from watering,consolidation in layers of 15cms.,thick including disposing off the states.	e PE-100 Pipes, commodia C/C, with shole closed with concrete entering and forme as perspecificate. Rate trench excavation	12684.38 118387.58 Infirming to PN 6 as uitable expander /reend cap and 45 degree of 1:2:4 proportion mwork, curing testing tion drawing and as 4279.00 513.48 4792.48 In and foundation in all lead and lift.	per IS 4 educer ee bend ,150/20 g,includi directed
20	Providing and fixing Drop arrangements ,with following diameter HDPE Gard 1995 with latest amendments vertical drop pipe with MS fastenings at 300 m HDPE T joint at top with incoming sewer with one end of Tee inside the man the bottom with HDPE Specials and encasing the pipe outside manhole with mm thick alround the HDPE pipe including vibrating,Compacting,Necessary cost and conveyance of all materials,labour with all lead and lift etc.,complet the engineer in charge BWSSB SI No.98,Pg No.91 For 150/200 mm dia incoming sewer pipe - Zone 4 Part 2 Basic Rate Add 12% For Area weightage Refilling Pipeline Trenches and foundation with selected available earth from watering,consolidation in layers of 15cms.,thick including disposing off the st KUWSDB Pg No 15,SI No 2	e PE-100 Pipes, commodia C/C, with shole closed with concrete entering and forme as perspecificate. Rate trench excavation	12684.38 118387.58 Infirming to PN 6 as uitable expander /reend cap and 45 degree of 1:2:4 proportion mwork, curing testing tion drawing and as 4279.00 513.48 4792.48 In and foundation in and foundation in the second	per IS 4 educer ee bend ,150/20 g,includi directed

22	KSRRB M300-19. Removal of unserviceable soil including excavation, loading suitable soil which shall be paid separately as per clause 300.5 complete as p	er specifications. MC	<u> </u>	on No. 30
22	KPWD Pg No. ,Sl No.19.20		,	
				,
	Basic Rate		37.00	
	Lead & Lift Charges - 5Km ,KPWD-16-17,Sl No.17.4 (Earth=1.28),Pg No 140		16.00	
	Loading & Unloading -KPWD-16-17,Sl No.17.1,Pg No 134		68.00	
	Sub Total		121.00	1
	Add 12% For Area weightage		14.52	
		Rate	135.52	Cum
	KSRRB M400-6.1 Construction of granualr sub-base by providing close grade	l <u> </u>	egates of	<u> </u>
	granite/trap/basalt material, mixing in a mechanical mix plant at OMC, carria		=	reading
	uniform layers with motor grader on prepared surface and compacting with	vibratory power rolle	er to achieve the	desired
23	density, complete as per specifications, Including environmental and social sa	afe guards, including	all taxes, as dire	cted by
	Engineer-in-Charge etc. Close graded granular sub-base material as per 400-2	1, For Grading - I mat	terial , by Plant N	Mix Met
	KSRB Pg No.155,20.4.1			
	Basic Rate		1618	
	Sub Total		1618.00	
	Add 12% For Area weightage		194.16	
		Rate	1812.16	Cum
		•		
24	KSRRB M400-Wet Mix macadam KSRRB M400-17. Providing, laying, spreading granite/trap/ basalt to wet mix macadam specification including per mixing to mix plant carriage of mixed material by tipper to site, laying in uniform layers are proported surface and compacting with vibratory roller to achieve the desired	he material with wat s with paver in sub- b	ter at OMC in Me base/base course	echanica e on wel
24	granite/trap/ basalt to wet mix macadam specification including per mixing t mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406	he material with wat s with paver in sub- b	ter at OMC in Me base/base course	echanica e on wel
24	granite/trap/ basalt to wet mix macadam specification including per mixing t mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18	he material with wat s with paver in sub- b	ter at OMC in Me pase/base course s per specificatio	echanica e on wel on. MOR
24	granite/trap/ basalt to wet mix macadam specification including per mixing t mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406	he material with wat s with paver in sub- b	ter at OMC in Me pase/base course s per specificatio 1668	echanica e on wel on. MOR
24	granite/trap/ basalt to wet mix macadam specification including per mixing t mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate	he material with wat s with paver in sub- b	ter at OMC in Me pase/base course s per specificatio	echanica e on wel on. MOR
24	granite/trap/ basalt to wet mix macadam specification including per mixing to mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total	he material with wat s with paver in sub- b	ter at OMC in Me base/base course s per specificatio 1668 1668.00	echanica e on wel on. MOR
24	granite/trap/ basalt to wet mix macadam specification including per mixing to mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage	he material with wat s with paver in sub- b d density complete as Rate	ter at OMC in Me base/base course s per specificatio 1668 1668.00 200.16 1868.16	echanica e on wel on. MOR
24	granite/trap/ basalt to wet mix macadam specification including per mixing to mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsions.	he material with wat s with paver in sub- b I density complete as Rate	ter at OMC in Metase/base course sper specification 1668 1668.00 200.16 1868.16	echanica e on well on. MOR Cum
	granite/trap/ basalt to wet mix macadam specification including per mixing to mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion WMM including cleaning of road surface and spraying primer at the rate of 0	he material with wat s with paver in sub- b d density complete as Rate	ter at OMC in Metase/base course sper specification 1668 1668.00 200.16 1868.16	echanica e on wel on. MOR Cum
	granite/trap/ basalt to wet mix macadam specification including per mixing to mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502	he material with wat s with paver in sub- b d density complete as Rate	ter at OMC in Metase/base course sper specification 1668 1668.00 200.16 1868.16	echanica e on wel on. MOR Cum
	granite/trap/ basalt to wet mix macadam specification including per mixing t mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsic WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6	he material with wat s with paver in sub- b d density complete as Rate	ter at OMC in Metase/base course sper specification 1668 1668.00 200.16 1868.16 ace of granular basechanical means	Cum ase such
	granite/trap/ basalt to wet mix macadam specification including per mixing t mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion with MMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate	he material with wat s with paver in sub- b d density complete as Rate	1668 1668.00 200.16 1868.16 ace of granular batechanical means	Cum ase such
	granite/trap/ basalt to wet mix macadam specification including per mixing to mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate Sub Total	he material with wat s with paver in sub- b d density complete as Rate	1668 1668.00 200.16 1868.16 ace of granular batechanical means	chanica e on wel on. MOR Cum ase such s comple
	granite/trap/ basalt to wet mix macadam specification including per mixing t mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion with MMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate	Rate on on prepared surfa	1668 1668.00 200.16 1868.16 ace of granular batechanical means	Cum ase such
	granite/trap/ basalt to wet mix macadam specification including per mixing to mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate Sub Total	he material with wat s with paver in sub- b d density complete as Rate	1668 1668.00 200.16 1868.16 ace of granular batechanical means	Cum ase such
	granite/trap/ basalt to wet mix macadam specification including per mixing t mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate Sub Total Add 12% For Area weightage	Rate on on prepared surfa .60 kg / sqm using m	1668 1668.00 200.16 1868.16 ace of granular batechanical means	Cum ase such
	granite/trap/ basalt to wet mix macadam specification including per mixing to mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate Sub Total Add 12% For Area weightage Providing and laying bituminous macadam on prepared surface with crushed	Rate on on prepared surface.60 kg / sqm using mate. Rate Coarse aggregates a	1668 1668.00 200.16 1868.16 ace of granular batechanical means 26.00 26.00 26.00 3.12 29.12	Cum ase such s comple
	granite/trap/ basalt to wet mix macadam specification including per mixing to mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion with mixed primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate Sub Total Add 12% For Area weightage Providing and laying bituminous macadam on prepared surface with crushed for base / binding course including loading of aggregates with F.E loader, hotely applied to site of the site	Rate Rate Coarse aggregates a mixing of stone aggre	1668 1668.00 200.16 1868.16 ace of granular batechanical means 26.00 26.00 2.00 2.00 2.00 2.00 2.00 2.	Cum ase such s comple Sqm formula men in l
	granite/trap/ basalt to wet mix macadam specification including per mixing to mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate Sub Total Add 12% For Area weightage Providing and laying bituminous macadam on prepared surface with crushed for base / binding course including loading of aggregates with F.E loader, hot mix plant 40/60 TPH capacity, transporting the mixed material in tipper to perform the surface with respective to perform the mixed material in tipper to perform the mixed material in tipper to perform the surface with respective to perform the mixed material in tipper to perform the mixe	Rate Rate Coarse aggregates a mixing of stone aggregater and laying mixed	1668 1668.00 200.16 1868.16 ace of granular batechanical means 26.00 26.00 3.12 29.12 as per design mix regates and bitured materials with	Cum ase such s comple Sqm formula men in he paver
25	granite/trap/ basalt to wet mix macadam specification including per mixing to mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsic WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate Sub Total Add 12% For Area weightage Providing and laying bituminous macadam on prepared surface with crushed for base / binding course including loading of aggregates with F.E loader, hot mix plant 40/60 TPH capacity, transporting the mixed material in tipper to perfinisher to the required level and grade, rolling by power roller to achieve the	Rate Rate Coarse aggregates a mixing of stone aggregates a desired density, 50 desired density densi	1668 1668.00 200.16 1868.16 ace of granular batechanical means 26.00 26.00 26.00 3.12 29.12 as per design mix regates and bitured materials with / 75 mm compact	Cum ase such s comple s formula men in h paver cted
25	granite/trap/ basalt to wet mix macadam specification including per mixing to mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate Sub Total Add 12% For Area weightage Providing and laying bituminous macadam on prepared surface with crushed for base / binding course including loading of aggregates with F.E loader, hot mix plant 40/60 TPH capacity, transporting the mixed material in tipper to perform the surface with respective to perform the mixed material in tipper to perform the mixed material in tipper to perform the surface with respective to perform the mixed material in tipper to perform the mixe	Rate Rate Coarse aggregates a mixing of stone aggreyater and laying mixed adeas and lift including the material with water and lift including the material with material wit	1668 1668.00 200.16 1868.16 ace of granular batechanical means 26.00 26.00 26.00 3.12 29.12 as per design mix regates and bitured materials with / 75 mm compacts octoor materials goost of materials	Cum ase such s comple s formula men in h paver cted ls, labour
25	granite/trap/ basalt to wet mix macadam specification including per mixing t mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsic WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate Sub Total Add 12% For Area weightage Providing and laying bituminous macadam on prepared surface with crushed for base / binding course including loading of aggregates with F.E loader, hot mix plant 40/60 TPH capacity, transporting the mixed material in tipper to p finisher to the required level and grade, rolling by power roller to achieve the thickness with 3.4% bitumen but excluding cost of primer/tack coat with all l	Rate Rate Coarse aggregates as mixing of stone aggreyater and laying mixed desired density, 50 ead and lift including 60/70 grade bitumes 6 60/70 grade	1668 1668.00 200.16 1868.16 ace of granular batechanical means 26.00 26.00 3.12 29.12 as per design mix regates and bitured materials with 775 mm compacts of materials and linear process of	Cum ase such s comple s formula men in he paver cted ls, labour
25	granite/trap/ basalt to wet mix macadam specification including per mixing t mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsic WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate Sub Total Add 12% For Area weightage Providing and laying bituminous macadam on prepared surface with crushed for base / binding course including loading of aggregates with F.E loader, hot mix plant 40/60 TPH capacity, transporting the mixed material in tipper to p finisher to the required level and grade, rolling by power roller to achieve the thickness with 3.4% bitumen but excluding cost of primer/tack coat with all I HOM of machineries complete as per specifications. MORTH Chapter 5, using	Rate Rate Coarse aggregates as mixing of stone aggreyater and laying mixed desired density, 50 ead and lift including 60/70 grade bitumes 6 60/70 grade	1668 1668.00 200.16 1868.16 ace of granular batechanical means 26.00 26.00 3.12 29.12 as per design mix regates and bitured materials with 775 mm compacts of materials and linear process of	Cum ase such s comple s formula men in he paver cted ls, labour
25	granite/trap/ basalt to wet mix macadam specification including per mixing t mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsic WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate Sub Total Add 12% For Area weightage Providing and laying bituminous macadam on prepared surface with crushed for base / binding course including loading of aggregates with F.E loader, hot mix plant 40/60 TPH capacity, transporting the mixed material in tipper to perfinisher to the required level and grade, rolling by power roller to achieve the thickness with 3.4% bitumen but excluding cost of primer/tack coat with all I HOM of machineries complete as per specifications. MORTH Chapter 5, using and social safe guards, including all taxes, as directed by the Engineer-in-Cha	Rate Rate Coarse aggregates as mixing of stone aggreyater and laying mixed desired density, 50 ead and lift including 60/70 grade bitumes 6 60/70 grade	1668 1668.00 200.16 1868.16 ace of granular batechanical means 26.00 26.00 3.12 29.12 as per design mix regates and bitured materials with 775 mm compacts of materials and linear process of	Cum ase such s comple s formula men in h paver cted ls, labour
25	granite/trap/ basalt to wet mix macadam specification including per mixing t mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsic WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate Sub Total Add 12% For Area weightage Providing and laying bituminous macadam on prepared surface with crushed for base / binding course including loading of aggregates with F.E loader, hot mix plant 40/60 TPH capacity, transporting the mixed material in tipper to perfinisher to the required level and grade, rolling by power roller to achieve the thickness with 3.4% bitumen but excluding cost of primer/tack coat with all I HOM of machineries complete as per specifications. MORTH Chapter 5, using and social safe guards, including all taxes, as directed by the Engineer-in-Cha	Rate Rate Coarse aggregates as mixing of stone aggreyater and laying mixed desired density, 50 ead and lift including 60/70 grade bitumes 6 60/70 grade	1668 1668.00 200.16 1868.16 ace of granular batechanical means 26.00 26.00 3.12 29.12 as per design mix regates and bitured materials with 775 mm compacts of materials and linear process of	Cum ase such s comple s formula men in he paver cted ls, labour vironmen
25	granite/trap/ basalt to wet mix macadam specification including per mixing t mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsic WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate Sub Total Add 12% For Area weightage Providing and laying bituminous macadam on prepared surface with crushed for base / binding course including loading of aggregates with F.E loader, hot mix plant 40/60 TPH capacity, transporting the mixed material in tipper to perfinisher to the required level and grade, rolling by power roller to achieve the thickness with 3.4% bitumen but excluding cost of primer/tack coat with all I HOM of machineries complete as per specifications. MORTH Chapter 5, using and social safe guards, including all taxes, as directed by the Engineer-in-Cha KSRRB Pg No.162,SI No. 21.11.6	Rate Rate Coarse aggregates as mixing of stone aggreyater and laying mixed desired density, 50 ead and lift including 60/70 grade bitumes 6 60/70 grade	1668 1668.00 200.16 1868.16 ace of granular batechanical means 26.00 26.00 26.00 3.12 29.12 as per design mix regates and bitured materials with / 75 mm compacts cost of material en, Including envoluments	Cum ase such s comple s formula men in he paver cted ls, labour vironmen
25	granite/trap/ basalt to wet mix macadam specification including per mixing t mix plant carriage of mixed material by tipper to site, laying in uniform layers prepared surface and compacting with vibratory roller to achieve the desired Specification NO.406 KSRB Pg No 158,20.18 Basic Rate Sub Total Add 12% For Area weightage KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsic WMM including cleaning of road surface and spraying primer at the rate of 0 as per specifications. MORTH Specification No. 502 KSRB Pg No.161,SI No:21.6 Basic Rate Sub Total Add 12% For Area weightage Providing and laying bituminous macadam on prepared surface with crushed for base / binding course including loading of aggregates with F.E loader, hot mix plant 40/60 TPH capacity, transporting the mixed material in tipper to prinisher to the required level and grade, rolling by power roller to achieve the thickness with 3.4% bitumen but excluding cost of primer/tack coat with all I HOM of machineries complete as per specifications. MORTH Chapter 5, using and social safe guards, including all taxes, as directed by the Engineer-in-Cha KSRRB Pg No.162,SI No. 21.11.6 Basic Rate	Rate Rate Coarse aggregates as mixing of stone aggreyater and laying mixed desired density, 50 ead and lift including 60/70 grade bitumes 6 60/70 grade	1668 1668.00 200.16 1868.16 ace of granular batechanical means 26.00 26.00 26.00 3.12 29.12 as per design mix regates and bitured materials with / 75 mm company grows of material en, Including envoluments	Cum ase such s comple formula men in h paver cted ls, labour vironmer

27	2.5 kg per 10 sqm, heating bitumen in boiler fitted with		race, including co.	
	materials, labour, HOM of machineries complete as per	specifications. MORTH/Chapter 5		
	KSRB Pg No.160,Sl No:21.7 Rev Rate-18.12.2017		42.00	
	Basic Rate		12.00	
	Sub Total		12.00	
	Add 12% For Area weightage	Beta	1.44	
		Rate	13.44	Sqm
28	Providing and laying Semi dense bituminous concrete w tonnes per hour using crushed aggregates of specified g filter, transporting the hot mix to work site, laying with grade, level and alignment, rolling with smooth wheeled per MORTH specification clause no. 500.8, 25 mm comp (Grading II) using mechnical paver, with all lead and lift guards, including all taxes, as directed by the Engineer-in KSRRB Pg No.163,Sl No. 21.20.6	rading, premixed with bituminous binder a hydrostatic paver finisher with mechand, vibratory and tandem rollers to achievoacted thickness with 5% bitumen 60/70 Labour, as per specification, Including e	er at 4.5 to 5% of noical paver to the role the desired comes grade using 40-60	nix and required apaction O HMP
	Dania Data		CO4F 00	
	Basic Rate Sub Total		6945.00	
			6945.00	
	Add 12% For Area weightage	Rate	833.40 7778.40	
		1.000		-
29	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reexecution of work enough precaution should be taken be	of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as direct by the contractor to ensure that the clear	ings according. to of water pumped e as per approved ted by engineer.Durwater flows from	the out at a drawing uring the
29	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all re-	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as direct by the contractor to ensure that the clean	ings according. to of water pumped e as per approved ted by engineer.Durwater flows from	the out at a drawing uring the
29	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reexecution of work enough precaution should be taken be	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as direct by the contractor to ensure that the clean	ings according. to of water pumped e as per approved ted by engineer.Durwater flows from	the out at a drawing uring the on the
29	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reexecution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as direct by the contractor to ensure that the clean	ings according. to of water pumped e as per approved ed by engineer.Dur water flows from ed)	the out at a drawing uring the n the
29	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reference execution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivers.	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as direct by the contractor to ensure that the clean	ings according. to of water pumped e as per approved ed by engineer. Dur water flows from ed)	the out at a drawing uring the the
29	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reference execution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery Basic Rate Sub Total	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the clear uring the process. (Rate analysis attached Rate	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20	the out at a drawing uring the the
29	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reference execution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery because the same settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil de	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the clear uring the process. (Rate analysis attached analysis attached the sides of the trench for following depths:	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel s	the out at a drawing uring the the the
29	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reference execution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery because of substituting sheet piling for bot less than 6.5 mm thick, stronger knife edge, recessed specific providing and installing sheet piling for bot less than 6.5 mm thick, stronger knife edge, recessed specific providing and installing sheet piling for bot less than 6.5 mm thick, stronger knife edge, recessed specific providing and installing sheet piling for bot less than 6.5 mm thick, stronger knife edge, recessed specific providing and installing sheet piling for bot less than 6.5 mm thick, stronger knife edge, recessed specific providing and installing sheet piling for bot less than 6.5 mm thick, stronger knife edge, recessed specific providing and installing sheet piling for bot less than 6.5 mm thick, stronger knife edge, recessed specific providing and installing sheet piling for bot less than 6.5 mm thick, stronger knife edge, recessed specific providing and installing sheet piling for bot less than 6.5 mm thick providing and installing sheet piling for bot less than 6.5 mm thick providing and installing sheet piling for bot less than 6.5 mm thick providing and installing sheet piling for bot less than 6.5 mm thick providing and installing sheet piling for bot less than 6.5 mm thick providing and installing sheet piling for bot less than 6.5 mm thick providing and installing sheet piling for bot less than 6.5 mm thick providing and installing sheet piling for bot less than 6.5 mm thick providing and installing sheet piling for bot less than 6.5 mm thick providing and installing sheet piling for bot less than 6.5 mm thick providing and installing sheet piling for bot less than 6.5 mm thick pro	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the clear uring the process. (Rate analysis attached the sides of the trench for following depth breader sockets, 3" single or double wall	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 s with mild steel s shields, to be designed.	the out at a drawing uring the the Day sheets n gned by
	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reference execution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery be substituted. Sheet piling: Providing and installing sheet piling for bot less than 6.5 mm thick, stronger knife edge, recessed specific the contractor to withstand all types of soils, maximum	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the clear uring the process. (Rate analysis attached has been sides of the trench for following depth or eader sockets, 3" single or double wall depths of as per the approved design draws.	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel standard including later and standard including lat	the out at a drawing uring the the the Day sheets named by abour
29	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reference execution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery by a settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the clear uring the process. (Rate analysis attached arious of the trench for following depth depths of as per the approved design drarious reaches of sewer line construction	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel s shields, to be design, including loading in, including loading in, including loading in the steel service.	Day Cheets no gned by abour
	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reexecution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid avoid avoid avoid avoid	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the clear uring the process. (Rate analysis attached arious of the trench for following depth depths of as per the approved design drarious reaches of sewer line construction	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel s shields, to be design, including loading in, including loading in, including loading in the steel service.	Day Cheets no gned by abour
	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reference execution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery be	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the clear uring the process. (Rate analysis attached the sides of the trench for following depthoreader sockets, 3" single or double wall depths of as per the approved design drarious reaches of sewer line construction	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel s shields, to be design, including loading in, including loading in, including loading in the steel service.	Day Cheets named by abour
30	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reference execution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the clear uring the process. (Rate analysis attached the sides of the trench for following depthoreader sockets, 3" single or double wall depths of as per the approved design drarious reaches of sewer line construction	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel s shields, to be design, including loading in, including loading in, including loading in the steel service.	Day Cheets named by abour
	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reference execution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the clear uring the process. (Rate analysis attached the sides of the trench for following depthoreader sockets, 3" single or double wall depths of as per the approved design drarious reaches of sewer line construction	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel standard including loading ent shall be taken	Day Cheets not abour g, for one
30	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reference execution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the clear uring the process. (Rate analysis attached the sides of the trench for following depthoreader sockets, 3" single or double wall depths of as per the approved design drarious reaches of sewer line construction	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel s shields, to be design, including loading ent shall be taken	Day Cheets not good by abour g, for one
30	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reference execution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of soil del	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the clear uring the process. (Rate analysis attached the sides of the trench for following depthoreader sockets, 3" single or double wall depths of as per the approved design drarious reaches of sewer line construction	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel s shields, to be design, including loading ent shall be taken 572.00 572.00	Day Cheets not about gring the greet by abour gring for one
30	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reference execution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the cleaturing the process. (Rate analysis attached with sides of the trench for following depthoreader sockets, 3" single or double wall depths of as per the approved design drarious reaches of sewer line construction applete with all lead and lifts (Measurement).	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel s shields, to be design, including loading ent shall be taken 572.00 572.00 68.64	the out at a drawing uring the T
30 a	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reexecution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of soil	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the clear uring the process. (Rate analysis attached the sides of the trench for following depthoreader sockets, 3" single or double wall depths of as per the approved design drarious reaches of sewer line construction	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel shields, to be designating, including loading ent shall be taken 572.00 572.00	the out at a drawing uring the T
30	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reference execution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of soil del	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the cleaturing the process. (Rate analysis attached with sides of the trench for following depthoreader sockets, 3" single or double wall depths of as per the approved design drarious reaches of sewer line construction applete with all lead and lifts (Measurement).	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel s shields, to be designating, including lading ent shall be taken 572.00 572.00 68.64 640.64	Day Cheets no gned by abour g, for one
30 a	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reexecution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the cleaturing the process. (Rate analysis attached with sides of the trench for following depthoreader sockets, 3" single or double wall depths of as per the approved design drarious reaches of sewer line construction applete with all lead and lifts (Measurement).	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel shields, to be designating, including land, including land, including land, including land, including land, including land, and shall be taken 572.00 572.00 68.64 640.64	Day Cheets no gned by abour g, for one
30 a	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reference execution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the cleaturing the process. (Rate analysis attached with sides of the trench for following depthoreader sockets, 3" single or double wall depths of as per the approved design drarious reaches of sewer line construction applete with all lead and lifts (Measurement).	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel s shields, to be design, including land, including land, including land, including land ent shall be taken 572.00 572.00 68.64 640.64	Day Cheets no gned by abour g, for one
30 a	material, labour T & P articles & machinery laying sewer requirement of the construction of structure. The cost of safe place away from the structure. The dewatering will with all horizontal leads and lifts etc., complete in all reexecution of work enough precaution should be taken be delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil delivery pipe of pumps to avoid any settlement of soil	r line & Manholes as per approved draw of this work shall be inclusive of disposal work till the completion of the structure espects as per specification and as directly the contractor to ensure that the cleaturing the process. (Rate analysis attached with sides of the trench for following depthoreader sockets, 3" single or double wall depths of as per the approved design drarious reaches of sewer line construction applete with all lead and lifts (Measurement).	ings according. to of water pumped e as per approved ted by engineer. Dur water flows from ed) 4218.20 4218.20 4218.20 as with mild steel shields, to be designating, including land, including land, including land, including land, including land, including land, and shall be taken 572.00 572.00 68.64 640.64	Day Sheets n gned by abour g, for one

31	KSRB 14.6-2 :Providing and laying heavy duty cobble stones 75mm thick intermanufacture of blocks of approved size, shape and colour with a minimum of 50mm thick sand bed (average thickness) and compacting with plate vibratoricing part of sand underneath to come up in between joints, final compact including cost of materials, labour and HOM of machineries complete as per PWD (16-17,Pg No.101,Sl No.14.7)	ompressive stren or having 3 tons c ion of paver surf	igth of 281 kg per sq ompaction force the	m over reby
	Basic Rate		970.00	
	Sub Total		970.00	
	Add 12% For Area weightage		116.40	
		Rate	1086.40	Sqm

Executive Engineer MSCL Mangaluru

MANGALURU SMART CITY 1.6 Rate Analysis of Underground Drainage Zone 4 Part 2 and Zone 3 Part 1

RATE ANALYSIS - UnderGround Drainage Zone 4 Part 2 and Zone 3 Part 1- UTILITY SHIFTING

	DISMANITUNG	T		
	DISMANTLING			
1	KSRRB M200-13.2. Dismantling of existing structures like culverts, bridges masonry, cement concrete, wood work, steel work, including T&P and sca dismantled material, disposal of unserviceable material and stacking the specifications. II.By Mechanical Means. MORTH Specification No. 202 KSRRB Pg No.137,SI No.18.21	affolding wherever ne	ecessary, sorting the	9
	Basic rate		601	
	Add 12% For area weightage		72.12	
		Rate	673.12	Cum
2	KSRRB M200-14.2. Dismantling of existing structures like culverts, bridges masonry, cement concrete, wood work, steel work, including T&P and sca dismantled material, disposal of unserviceable material and stacking the specifications. ii) Dismantling brick/Tile work B. In cement mortar. MORTH KSRRB Pg No.137,SI No.18.23	affolding wherever ne serviceable material v	ecessary, sorting the with all lifts comple	9
	Decis vote	1	244	
	Basic rate Add 12% For area weightage	+	244 29.28	_
	Add 12% For area weightage	Rate	273.28	
		Rate	2/3.20	Cum
	COMPOUND WALL KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supports or in trenches 1.5m and above in width, in ordinary soil not exceeding and sides of pits and trenches, stacking the excavated soil clear from edge	ng 1.5 m. in depth inc	cluding dressing the	bottom
1	KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supports or in trenches 1.5m and above in width, in ordinary soil not exceeding	ng 1.5 m. in depth inc es of excavation with	cluding dressing the	bottom
1	KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supports or in trenches 1.5m and above in width, in ordinary soil not exceeding and sides of pits and trenches, stacking the excavated soil clear from edge of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.	ng 1.5 m. in depth inc es of excavation with	cluding dressing the	bottom
1	KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supports or in trenches 1.5m and above in width, in ordinary soil not exceeding and sides of pits and trenches, stacking the excavated soil clear from edge of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3. KSRRB Pg No.5,SI No.2.3	ng 1.5 m. in depth inces of excavation with	cluding dressing the lead upto 50 m. aft	bottom er breakir
1	KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supports or in trenches 1.5m and above in width, in ordinary soil not exceeding and sides of pits and trenches, stacking the excavated soil clear from edge of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3. KSRRB Pg No.5,SI No.2.3 Basic rate	ng 1.5 m. in depth inces of excavation with	cluding dressing the lead upto 50 m. aft 189	bottom er breaki
2	KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supports or in trenches 1.5m and above in width, in ordinary soil not exceeding and sides of pits and trenches, stacking the excavated soil clear from edge of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3. KSRRB Pg No.5,SI No.2.3 Basic rate	Rate 1:2:4 with OPC ceme ggregates @ 0.459cu including cost of all r	189 22.68 211.68 ent @ 240kgs, with a machine mixed,	bottom er breakir Cum 10mm and concrete
	KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supports or in trenches 1.5m and above in width, in ordinary soil not exceeding and sides of pits and trenches, stacking the excavated soil clear from edge of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3. KSRRB Pg No.5,SI No.2.3 Basic rate Add 12% For area weightage KSRB 4-1.1: Providing and laying in position plain cement concrete of mix down size graded granite metal coarse aggregates @0.878cum and fine again laid in layers not exceeding 15 cms. thick, well compacted, in foundation, machinery, curing complete as per specifications. Specification No. KBS 4.	Rate 1:2:4 with OPC ceme ggregates @ 0.459cu including cost of all r	189 22.68 211.68 ent @ 240kgs, with a machine mixed,	bottom er breakir Cum 10mm and concrete
	KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supports or in trenches 1.5m and above in width, in ordinary soil not exceeding and sides of pits and trenches, stacking the excavated soil clear from edge of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3. KSRRB Pg No.5,SI No.2.3 Basic rate Add 12% For area weightage KSRB 4-1.1: Providing and laying in position plain cement concrete of mix down size graded granite metal coarse aggregates @0.878cum and fine again in layers not exceeding 15 cms. thick, well compacted, in foundation, machinery, curing complete as per specifications. Specification No. KBS 4. KSRRB Pg No.12,SI No.4.1	Rate 1:2:4 with OPC ceme ggregates @ 0.459cu including cost of all r	189 22.68 211.68 ent @ 240kgs, with and machine mixed, materials, labour, He	bottom er breaking Cum 10mm and concrete OM of
	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supports or in trenches 1.5m and above in width, in ordinary soil not exceeding and sides of pits and trenches, stacking the excavated soil clear from edge of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3. KSRRB Pg No.5,Sl No.2.3 Basic rate Add 12% For area weightage KSRB 4-1.1: Providing and laying in position plain cement concrete of mix down size graded granite metal coarse aggregates @0.878cum and fine again laid in layers not exceeding 15 cms. thick, well compacted, in foundation, machinery, curing complete as per specifications. Specification No. KBS 4. KSRRB Pg No.12,Sl No.4.1 Basic rate	Rate 1:2:4 with OPC ceme ggregates @ 0.459cu including cost of all r	189 22.68 211.68 ent @ 240kgs, with and machine mixed, materials, labour, Ho	cum from an concrete OM of
	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supports or in trenches 1.5m and above in width, in ordinary soil not exceeding and sides of pits and trenches, stacking the excavated soil clear from edge of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3. KSRRB Pg No.5,Sl No.2.3 Basic rate Add 12% For area weightage KSRB 4-1.1: Providing and laying in position plain cement concrete of mix down size graded granite metal coarse aggregates @0.878cum and fine again laid in layers not exceeding 15 cms. thick, well compacted, in foundation, machinery, curing complete as per specifications. Specification No. KBS 4. KSRRB Pg No.12,Sl No.4.1 Basic rate	Rate 1:2:4 with OPC ceme ggregates @ 0.459cu including cost of all r 1, 4.2 Rate Rate	189 22.68 211.68 ent @ 240kgs, with am machine mixed, materials, labour, Horizonton 1:6 stone on the mortar 1:6 stone	Cum Cum Concrete OM of Cum
2	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supplies or in trenches 1.5m and above in width, in ordinary soil not exceeding and sides of pits and trenches, stacking the excavated soil clear from edge of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3. KSRRB Pg No.5,SI No.2.3 Basic rate Add 12% For area weightage KSRB 4-1.1: Providing and laying in position plain cement concrete of mix down size graded granite metal coarse aggregates @0.878cum and fine again in layers not exceeding 15 cms. thick, well compacted, in foundation, machinery, curing complete as per specifications. Specification No. KBS 4. KSRRB Pg No.12,SI No.4.1 Basic rate Add 12% For area weightage Providing and constructing granite / trap / basalt size stone masonry in for dressed in courses not less than 20 cms high, bond stones at two m. apart curing complete as per specifications. KBS 5.1.13	Rate 1:2:4 with OPC ceme ggregates @ 0.459cu including cost of all r 1, 4.2 Rate Rate	189 22.68 211.68 ent @ 240kgs, with am machine mixed, materials, labour, Horizonton 1:6 stone on the mortar 1:6 stone	Cum Cum Cum Cum Cum Cum Cum
2	KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supplies or in trenches 1.5m and above in width, in ordinary soil not exceeding and sides of pits and trenches, stacking the excavated soil clear from edge of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3. KSRRB Pg No.5,SI No.2.3 Basic rate Add 12% For area weightage KSRB 4-1.1: Providing and laying in position plain cement concrete of mix down size graded granite metal coarse aggregates @0.878cum and fine again in layers not exceeding 15 cms. thick, well compacted, in foundation, machinery, curing complete as per specifications. Specification No. KBS 4. KSRRB Pg No.12,SI No.4.1 Basic rate Add 12% For area weightage Providing and constructing granite / trap / basalt size stone masonry in for dressed in courses not less than 20 cms high, bond stones at two m. apart curing complete as per specifications. KBS 5.1.13 KSRRB Pg No.254,SI No.34.8.2	Rate 1:2:4 with OPC ceme ggregates @ 0.459cu including cost of all r 1, 4.2 Rate Rate	189 22.68 211.68 ent @ 240kgs, with and machine mixed, materials, labour, Herman 625.56 5838.56 ent mortar 1:6 stone ding cost of materials	Cum Cum Cum Cum Cum Cum Cum

	Draviding Q constructing laterite size stone masonry in CM 1.6 including	a cost and convoyance	of all materials curing oto
	Providing & constructing laterite size stone masonry in CM 1:6 including	=	
4	complete as per specification I.S. 3620 / 1979 having compressive strengths. For super structure in CN 1:6 (Comput 45 kgs (N3) (Ground 5)	-	Minz for Saturated dry
	samples. For super structure in CM 1:6 (Cement 45 kgs/M3) (Ground F KSRRB Pg No.267,SI No.37.66.1	1001)	
	Basic rate		4410.00
	Add 12% For area weightage	1	529.2
		Rate	4939.20 Cum
	KSRB15-3.11: Providing 20mm thick cement plaster in single coat with	coment mortar 1:// to	stono masonry & concrete
	surface including rounding off corners wherever required smooth rendered		
5	cost of materials, labour, curing complete as per specifications.	ering, . Fromunig and re	HIOVING Scanolaing, includ
	KSRRB Pg No.114,Sl No.15.19		
		1	
	Basic rate		234.00
	Add 12% For area weightage		28.08
		Rate	262.08 Sqm
	KSRB 15-16.1: Providing and finishing external walls in two coats with v		
	shade to give an even shade after throughly brooming the surface to re		
6	mortar drops and other foreign matter cost of materials, labour, compl	ete as per specification	s with primer.
	KSRRB Pg No.118,SI No.15.53.2		
	·		
	Basic rate		84.00
	Basic rate Add 12% For area weightage		84.00 10.08
		Rate	
	Add 12% For area weightage		10.08 94.08 Sqm
	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of formula to the second secon	oundations upto plinth i	10.08 94.08 Sqm In layers not exceeding 20
7	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering values.	oundations upto plinth i	10.08 94.08 Sqm In layers not exceeding 20
7	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering of all labour complete as per specifications. Specification No. KBS 2.9	oundations upto plinth i	10.08 94.08 Sqm In layers not exceeding 20
7	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering values.	oundations upto plinth i	10.08 94.08 Sqm In layers not exceeding 20 d lift upto 1.5m. including
7	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering of all labour complete as per specifications. Specification No. KBS 2.9 KSRRB Pg No.6,SI No.2.1 Basic Material Rate	oundations upto plinth i	10.08 94.08 Sqm In layers not exceeding 20 d lift upto 1.5m. including
7	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering of all labour complete as per specifications. Specification No. KBS 2.9 KSRRB Pg No.6,Sl No.2.1	oundations upto plinth i	10.08 94.08 Sqm In layers not exceeding 20 d lift upto 1.5m. including 127.00 15.24
7	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering of all labour complete as per specifications. Specification No. KBS 2.9 KSRRB Pg No.6,SI No.2.1 Basic Material Rate	oundations upto plinth i	10.08 94.08 Sqm In layers not exceeding 20 d lift upto 1.5m. including
7	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering of all labour complete as per specifications. Specification No. KBS 2.9 KSRRB Pg No.6,SI No.2.1 Basic Material Rate	oundations upto plinth i	10.08 94.08 Sqm In layers not exceeding 20 d lift upto 1.5m. including 127.00 15.24
7	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering of all labour complete as per specifications. Specification No. KBS 2.9 KSRRB Pg No.6,Sl No.2.1 Basic Material Rate Add 12% For area weightage CULVERT	oundations upto plinth i	10.08 94.08 Sqm In layers not exceeding 20 d lift upto 1.5m. including 127.00 15.24 142.24 Cum
7	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering of all labour complete as per specifications. Specification No. KBS 2.9 KSRRB Pg No.6,SI No.2.1 Basic Material Rate Add 12% For area weightage CULVERT KSRB 2-2.1: Earthwork excavation for foundation of buildings, water such	Rate upply, sanitary lines and	10.08 94.08 Sqm In layers not exceeding 20 d lift upto 1.5m. including 127.00 15.24 142.24 Cum
7	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering of all labour complete as per specifications. Specification No. KBS 2.9 KSRRB Pg No.6,SI No.2.1 Basic Material Rate Add 12% For area weightage CULVERT KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supplies or in trenches 1.5m and above in width, in ordinary soil not exceed	Rate upply, sanitary lines and ding 1.5 m. in depth incompared	10.08 94.08 Sqm In layers not exceeding 20 difft upto 1.5m. including 127.00 15.24 142.24 Cum dielectrical conduits either duding dressing the bottor
7	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering of all labour complete as per specifications. Specification No. KBS 2.9 KSRRB Pg No.6,Sl No.2.1 Basic Material Rate Add 12% For area weightage CULVERT KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supits or in trenches 1.5m and above in width, in ordinary soil not exceed and sides of pits and trenches, stacking the excavated soil clear from exceed the state of th	Rate upply, sanitary lines and ding 1.5 m. in depth incodes sof excavation with	10.08 94.08 Sqm In layers not exceeding 20 difft upto 1.5m. including 127.00 15.24 142.24 Cum dielectrical conduits either duding dressing the bottor
	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering of all labour complete as per specifications. Specification No. KBS 2.9 KSRRB Pg No.6,SI No.2.1 Basic Material Rate Add 12% For area weightage CULVERT KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supits or in trenches 1.5m and above in width, in ordinary soil not exceed and sides of pits and trenches, stacking the excavated soil clear from each of clods complete as per specifications. specification. No. KBS 2.1(a) / 2	Rate upply, sanitary lines and ding 1.5 m. in depth incodes sof excavation with	10.08 94.08 Sqm In layers not exceeding 20 difft upto 1.5m. including 127.00 15.24 142.24 Cum dielectrical conduits either duding dressing the bottor
	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering of all labour complete as per specifications. Specification No. KBS 2.9 KSRRB Pg No.6,Sl No.2.1 Basic Material Rate Add 12% For area weightage CULVERT KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supits or in trenches 1.5m and above in width, in ordinary soil not exceed and sides of pits and trenches, stacking the excavated soil clear from exceed the state of th	Rate upply, sanitary lines and ding 1.5 m. in depth incodes sof excavation with	10.08 94.08 Sqm In layers not exceeding 20 difft upto 1.5m. including 127.00 15.24 142.24 Cum dielectrical conduits either duding dressing the bottor
	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering of all labour complete as per specifications. Specification No. KBS 2.9 KSRRB Pg No.6,SI No.2.1 Basic Material Rate Add 12% For area weightage CULVERT KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supits or in trenches 1.5m and above in width, in ordinary soil not exceed and sides of pits and trenches, stacking the excavated soil clear from each of clods complete as per specifications. specification. No. KBS 2.1(a) / 2	Rate upply, sanitary lines and ding 1.5 m. in depth incodes sof excavation with	10.08 94.08 Sqm In layers not exceeding 20 difft upto 1.5m. including 127.00 15.24 142.24 Cum dielectrical conduits either duding dressing the bottor
	Add 12% For area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in sides of for In depth, compacting each deposited layer by ramming after watering of all labour complete as per specifications. Specification No. KBS 2.9 KSRRB Pg No.6,SI No.2.1 Basic Material Rate Add 12% For area weightage CULVERT KSRB 2-2.1: Earthwork excavation for foundation of buildings, water supits or in trenches 1.5m and above in width, in ordinary soil not exceed and sides of pits and trenches, stacking the excavated soil clear from each of clods complete as per specifications. specification. No. KBS 2.1(a) / 2 KSRB Pg No 5,SI No.2.3	Rate upply, sanitary lines and ding 1.5 m. in depth incodes sof excavation with	10.08 94.08 Sqm In layers not exceeding 20 d lift upto 1.5m. including 127.00 15.24 142.24 Cum d electrical conduits either luding dressing the bottor lead upto 50 m. after brea

2	specifications MORTH Specification No. 408 KSRB Pg No.253,SI No.34.1			
	Basic rate		4434.00	
	Add 12% For area weightage		532.08	
	Add 1270 For area weightage	Rate	4966.08	
		Nucc	4300.00	Cum
3	Providing and constructing granite / trap / basalt size stone dressed in courses not less than 20 cms high, bond stones curing complete as per specifications. KBS 5.1.13 KSRB Pg No.254,SI No.34.8.2			
	Basic Rate		4187.00	
	Add 12% For Area weightage		502.44	
		Rate	4689.44	Cum
4	Providing and constructing granite / trap / basalt size stone in basement with cement mortar 1:6, edges of stones chist in courses not less than 15 cms high, bond stones at two meach course including cost of materials, labour, curing com KSRB Pg No.254,SI No.34.9	tle dressed n. apart in		
	Basic Rate		5005.00	
	Add 12% For Area weightage		600.6	
	1			
		Rate	5605.60	Cum
5	Providing flush pointing to square rubble, course or uncou masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications.	rsed stone		
5	masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications. – do – cement mortar 1:4 KSRB Pg No.254,SI No.34.12.1	rsed stone	g, including cost of ma	iterials,
5	masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications. – do – cement mortar 1:4 KSRB Pg No.254,SI No.34.12.1 Basic Rate	rsed stone	g, including cost of ma	iterials,
5	masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications. – do – cement mortar 1:4 KSRB Pg No.254,SI No.34.12.1 Basic Rate Sub Total	rsed stone	g, including cost of ma 97.00 97.00	iterials,
5	masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications. – do – cement mortar 1:4 KSRB Pg No.254,SI No.34.12.1 Basic Rate	rsed stone nts to depth of 20mm nicely linin	97.00 97.00 11.64	iterials,
5	masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications. – do – cement mortar 1:4 KSRB Pg No.254,SI No.34.12.1 Basic Rate Sub Total	rsed stone	g, including cost of ma 97.00 97.00	iterials,
5	masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications. – do – cement mortar 1:4 KSRB Pg No.254,Sl No.34.12.1 Basic Rate Sub Total Add 12% For Area weightage Providing and laying reinforced cement concrete pipe NP3 mortar 1:2 including cost of all materials, labour, curing co MOST Specification No.1000 / 2300 300mm. dia KSRB Pg No.253,Sl No.34.6.1	rsed stone nts to depth of 20mm nicely lining Rate for culverts including pointing en	97.00 97.00 11.64 108.64 ds, and fixing collars verifications. No. KSRB 1	Sqm vith cem
	masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications. – do – cement mortar 1:4 KSRB Pg No.254,Sl No.34.12.1 Basic Rate Sub Total Add 12% For Area weightage Providing and laying reinforced cement concrete pipe NP3 mortar 1:2 including cost of all materials, labour, curing co MOST Specification No.1000 / 2300 300mm. dia KSRB Pg No.253,Sl No.34.6.1 Basic Rate	rsed stone nts to depth of 20mm nicely lining Rate for culverts including pointing en	97.00 97.00 11.64 108.64 ds, and fixing collars verifications. No. KSRB 1	Sqm vith cem
	masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications. – do – cement mortar 1:4 KSRB Pg No.254,Sl No.34.12.1 Basic Rate Sub Total Add 12% For Area weightage Providing and laying reinforced cement concrete pipe NP3 mortar 1:2 including cost of all materials, labour, curing co MOST Specification No.1000 / 2300 300mm. dia KSRB Pg No.253,Sl No.34.6.1 Basic Rate Sub Total	rsed stone nts to depth of 20mm nicely lining Rate for culverts including pointing en	97.00 97.00 11.64 108.64 ds, and fixing collars verifications. No. KSRB 1	Sqm vith cem
	masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications. – do – cement mortar 1:4 KSRB Pg No.254,Sl No.34.12.1 Basic Rate Sub Total Add 12% For Area weightage Providing and laying reinforced cement concrete pipe NP3 mortar 1:2 including cost of all materials, labour, curing co MOST Specification No.1000 / 2300 300mm. dia KSRB Pg No.253,Sl No.34.6.1 Basic Rate	rsed stone nts to depth of 20mm nicely lining Rate for culverts including pointing en mplete as per specifications. Spec	97.00 97.00 11.64 108.64 ds, and fixing collars verifications. No. KSRB 1 1583.00 189.96	Sqm vith cem
	masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications. – do – cement mortar 1:4 KSRB Pg No.254,Sl No.34.12.1 Basic Rate Sub Total Add 12% For Area weightage Providing and laying reinforced cement concrete pipe NP3 mortar 1:2 including cost of all materials, labour, curing co MOST Specification No.1000 / 2300 300mm. dia KSRB Pg No.253,Sl No.34.6.1 Basic Rate Sub Total	rsed stone nts to depth of 20mm nicely lining Rate for culverts including pointing en	97.00 97.00 11.64 108.64 ds, and fixing collars verifications. No. KSRB 1	Sqm vith cem
	masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications. – do – cement mortar 1:4 KSRB Pg No.254,Sl No.34.12.1 Basic Rate Sub Total Add 12% For Area weightage Providing and laying reinforced cement concrete pipe NP3 mortar 1:2 including cost of all materials, labour, curing co MOST Specification No.1000 / 2300 300mm. dia KSRB Pg No.253,Sl No.34.6.1 Basic Rate Sub Total	rsed stone nts to depth of 20mm nicely lining Rate for culverts including pointing en mplete as per specifications. Specifications are recommended in the color of the culverts including pointing en Rate	97.00 97.00 11.64 108.64 ds, and fixing collars verifications. No. KSRB 1 1583.00 189.96 1772.96 ds, and fixing collars verifications.	Sqm vith cem 000, 230
6	masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications. — do — cement mortar 1:4 KSRB Pg No.254,Sl No.34.12.1 Basic Rate Sub Total Add 12% For Area weightage Providing and laying reinforced cement concrete pipe NP3 mortar 1:2 including cost of all materials, labour, curing co MOST Specification No.1000 / 2300 300mm. dia KSRB Pg No.253,Sl No.34.6.1 Basic Rate Sub Total Add 12% For Area weightage Providing and laying reinforced cement concrete pipe NP3 mortar 1:2 including cost of all materials, labour, curing co MOST Specification No.1000 / 2300 450mm. dia	rsed stone nts to depth of 20mm nicely lining Rate for culverts including pointing en mplete as per specifications. Specifications are recommended in the color of the culverts including pointing en Rate	97.00 97.00 11.64 108.64 ds, and fixing collars verifications. No. KSRB 1 1583.00 189.96 1772.96 ds, and fixing collars verifications.	Sqm vith cem 000, 230
6	masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications. — do — cement mortar 1:4 KSRB Pg No.254,Sl No.34.12.1 Basic Rate Sub Total Add 12% For Area weightage Providing and laying reinforced cement concrete pipe NP3 mortar 1:2 including cost of all materials, labour, curing co MOST Specification No.1000 / 2300 300mm. dia KSRB Pg No.253,Sl No.34.6.1 Basic Rate Sub Total Add 12% For Area weightage Providing and laying reinforced cement concrete pipe NP3 mortar 1:2 including cost of all materials, labour, curing co MOST Specification No.1000 / 2300 450mm. dia KSRB Pg No.253,Sl No.34.6.2	rsed stone nts to depth of 20mm nicely lining Rate for culverts including pointing en mplete as per specifications. Specifications are recommended in the color of the culverts including pointing en Rate	97.00 97.00 11.64 108.64 ds, and fixing collars verifications. No. KSRB 1 1583.00 189.96 1772.96 ds, and fixing collars verifications. No. KSRB 1	Sqm vith cem 000, 230 Rmt vith cem 000, 230
6	masonry with cement mortar, 20mm deep, after raking joi labour, curing complete as per specifications. — do — cement mortar 1:4 KSRB Pg No.254,SI No.34.12.1 Basic Rate Sub Total Add 12% For Area weightage Providing and laying reinforced cement concrete pipe NP3 mortar 1:2 including cost of all materials, labour, curing co MOST Specification No.1000 / 2300 300mm. dia KSRB Pg No.253,SI No.34.6.1 Basic Rate Sub Total Add 12% For Area weightage Providing and laying reinforced cement concrete pipe NP3 mortar 1:2 including cost of all materials, labour, curing co MOST Specification No.1000 / 2300 450mm. dia KSRB Pg No.253,SI No.34.6.2 Basic Rate	rsed stone nts to depth of 20mm nicely lining Rate for culverts including pointing en mplete as per specifications. Specifications are recommended in the color of the culverts including pointing en Rate	97.00 97.00 11.64 108.64 ds, and fixing collars verifications. No. KSRB 1 1583.00 189.96 1772.96 ds, and fixing collars verifications. No. KSRB 1	Sqm vith cem 000, 230 Rmt vith cem 000, 230

8	KSRB 2.3: Filling available excavated earth (excluding round in depth, compacting each deposited layer by ramming of all labour complete as per specifications. Specification KSRB Pg No.6,Sl No.2.10	after watering with lead upto 50m. ar	•	_
	Basic Rate		127.00	
	Sub Total		127.00	
-	Add 12% For Area weightage		15.24	
		Rate	142.24	Cum
	RCC DRAINS Earthwork excavation for foundation of buildings, wate	er supply, sanitary lines and electrical	conduits either in pit	ts or in
1	Earthwork excavation for foundation of buildings, water trenches 1.5m and above in width, in Ordinary Soil not pits and trenches, stacking the excavated soil clear from complete as per specifications including clearing vegeta selected earth for foundation and disposing off excess clead and lift including danger lighting wherever necessaries. KSRB Pg No.5,Sl No.2.3	exeeding 1.5 m.in depth including dre m edges of excavation with lead upto 5 ition, shoring, strutting, dewatering if i excavated material as approved by Eng	ssing the bottom and 60 m after breaking or required, and rammin	d sides of f clods ng with
1	Earthwork excavation for foundation of buildings, water trenches 1.5m and above in width, in Ordinary Soil not pits and trenches, stacking the excavated soil clear from complete as per specifications including clearing vegeta selected earth for foundation and disposing off excess lead and lift including danger lighting wherever necessariants.	exeeding 1.5 m.in depth including dre m edges of excavation with lead upto 5 ition, shoring, strutting, dewatering if i excavated material as approved by Eng	ssing the bottom and 60 m after breaking or required, and rammin	d sides of f clods ng with with all
1	Earthwork excavation for foundation of buildings, water trenches 1.5m and above in width, in Ordinary Soil not pits and trenches, stacking the excavated soil clear from complete as per specifications including clearing vegeta selected earth for foundation and disposing off excess clead and lift including danger lighting wherever necessar KSRB Pg No.5,Sl No.2.3	exeeding 1.5 m.in depth including dre m edges of excavation with lead upto 5 ition, shoring, strutting, dewatering if i excavated material as approved by Eng	ssing the bottom and and and and and after breaking or equired, and ramming gineer etc. complete	d sides of f clods ng with with all
1	Earthwork excavation for foundation of buildings, water trenches 1.5m and above in width, in Ordinary Soil not pits and trenches, stacking the excavated soil clear from complete as per specifications including clearing vegeta selected earth for foundation and disposing off excess clead and lift including danger lighting wherever necessary KSRB Pg No.5,Sl No.2.3	exeeding 1.5 m.in depth including dre m edges of excavation with lead upto 5 ition, shoring, strutting, dewatering if i excavated material as approved by Eng	ssing the bottom and 50 m after breaking of required, and ramming gineer etc. complete	d sides of f clods ng with with all

_	graded granite metal coarse aggregates @0.878cum a		
2	not exceeding 15 cms thick, well compacted in foundations	ation, plinth and cills, including cost of all m	aterials, labour, HOM of
	machineries, curing complete as per specifications. KSRB Pg No 12,Sl No.4.1		
	Basic Rate		E212 00
			5213.00
	Sub Total		5213.00
	Add 12% For Area weightage	Rate	625.56 5838.56 Cum
		Rate	5656.50 Culli
2	Providing and laying in position reinforced cement co down size graded granite metal coarse aggregates @0 liters conforming to IS 9103-1999 reafirmed-2008 at r vibrated for all works in foundation for footings, pede	0.70 cum and fine aggregates @ 0.47cum, vanachine mixed, concrete laid in layers not e	with super plasticisers @ exceeding 15 cms thick,
3	attached pilasters, columnspillars, posts, struts, buttr materials, labour, HOM of machinery, curing, complet KSRB Pg No.13,Sl NO.4.10	•	-
	Basic Rate		6221.00
	Sub Total		6221.00
	Add 12% For Area weightage		746.52
	The second of th	Rate	6967.52 Cum
4	Providing TMT steel reinforcement for R.C.C work inclapping and / or welding wherever required, tying wit necessary complete as per design (laps and wastage smachinery complete with all lead lifts and as per spec	h binding wire and anchoring to the adjoin hall not be measured and paid) cost of mat	ing members wherever terials, labour, HOM of
4	lapping and / or welding wherever required, tying wit necessary complete as per design (laps and wastage s	h binding wire and anchoring to the adjoin hall not be measured and paid) cost of mat	ing members wherever terials, labour, HOM of
4	lapping and / or welding wherever required, tying wit necessary complete as per design (laps and wastage s machinery complete with all lead lifts and as per spec	h binding wire and anchoring to the adjoin hall not be measured and paid) cost of mat	ing members wherever terials, labour, HOM of
4	lapping and / or welding wherever required, tying with necessary complete as per design (laps and wastage somachinery complete with all lead lifts and as per spect KSRB Pg No.17,Sl No.4.46.2 Rev. Basic Rate Sub Total	h binding wire and anchoring to the adjoin hall not be measured and paid) cost of mat	ing members wherever terials, labour, HOM of arge. FE 500 60607.00 60607.00
4	lapping and / or welding wherever required, tying wit necessary complete as per design (laps and wastage s machinery complete with all lead lifts and as per spec KSRB Pg No.17,Sl No.4.46.2 Rev. Basic Rate	h binding wire and anchoring to the adjoin shall not be measured and paid) cost of mat difications and directinon of Engineer-in-Cha	ing members wherever terials, labour, HOM of arge. FE 500 60607.00 60607.00 7272.84
4	lapping and / or welding wherever required, tying with necessary complete as per design (laps and wastage somachinery complete with all lead lifts and as per spect KSRB Pg No.17,Sl No.4.46.2 Rev. Basic Rate Sub Total	h binding wire and anchoring to the adjoin hall not be measured and paid) cost of mat	ing members wherever terials, labour, HOM of arge. FE 500 60607.00 60607.00
4	lapping and / or welding wherever required, tying with necessary complete as per design (laps and wastage somachinery complete with all lead lifts and as per spect KSRB Pg No.17,Sl No.4.46.2 Rev. Basic Rate Sub Total Add 12% For Area weightage	h binding wire and anchoring to the adjoin shall not be measured and paid) cost of mat iffications and directinon of Engineer-in-Charles	ing members wherever terials, labour, HOM of arge. FE 500 60607.00 60607.00 7272.84 67879.84 MT
5	lapping and / or welding wherever required, tying with necessary complete as per design (laps and wastage somachinery complete with all lead lifts and as per spect KSRB Pg No.17,Sl No.4.46.2 Rev. Basic Rate Sub Total	h binding wire and anchoring to the adjoint shall not be measured and paid) cost of mate ifications and directinon of Engineer-in-Charles Rate	ing members wherever terials, labour, HOM of arge. FE 500 60607.00 60607.00 7272.84 67879.84 MT
	lapping and / or welding wherever required, tying with necessary complete as per design (laps and wastage somethinery complete with all lead lifts and as per specific KSRB Pg No.17,Sl No.4.46.2 Rev. Basic Rate Sub Total Add 12% For Area weightage Providing and removing, centering, shuttering, strutting bases of columns for mass concrete including cost of all the structures.	h binding wire and anchoring to the adjoint shall not be measured and paid) cost of mate ifications and directinon of Engineer-in-Charles Rate	ing members wherever terials, labour, HOM of arge. FE 500 60607.00 60607.00 7272.84 67879.84 MT
	lapping and / or welding wherever required, tying with necessary complete as per design (laps and wastage so machinery complete with all lead lifts and as per species KSRB Pg No.17,Sl No.4.46.2 Rev. Basic Rate Sub Total Add 12% For Area weightage Providing and removing, centering, shuttering, strutting bases of columns for mass concrete including cost of KSRB Pg No.15,Sl No.4.28	h binding wire and anchoring to the adjoint shall not be measured and paid) cost of mate ifications and directinon of Engineer-in-Charles Rate	ing members wherever terials, labour, HOM of arge. FE 500 60607.00 60607.00 7272.84 67879.84 MT k for foundations, footing ications.
	lapping and / or welding wherever required, tying with necessary complete as per design (laps and wastage so machinery complete with all lead lifts and as per species KSRB Pg No.17,Sl No.4.46.2 Rev. Basic Rate Sub Total Add 12% For Area weightage Providing and removing, centering, shuttering, strutting bases of columns for mass concrete including cost of KSRB Pg No.15,Sl No.4.28 Basic Rate Basic Rate	h binding wire and anchoring to the adjoint shall not be measured and paid) cost of mate ifications and directinon of Engineer-in-Charles Rate	ing members wherever terials, labour, HOM of arge. FE 500 60607.00 60607.00 7272.84 67879.84 MT k for foundations, footing ications.
	lapping and / or welding wherever required, tying with necessary complete as per design (laps and wastage somachinery complete with all lead lifts and as per species KSRB Pg No.17,Sl No.4.46.2 Rev. Basic Rate Sub Total Add 12% For Area weightage Providing and removing, centering, shuttering, strutting bases of columns for mass concrete including cost of KSRB Pg No.15,Sl No.4.28 Basic Rate Sub Total	h binding wire and anchoring to the adjoint shall not be measured and paid) cost of mate ifications and directinon of Engineer-in-Charles Rate	ing members wherever terials, labour, HOM of arge. FE 500 60607.00 60607.00 7272.84 67879.84 MT k for foundations, footing ications. 231.00 231.00
	lapping and / or welding wherever required, tying with necessary complete as per design (laps and wastage somethinery complete with all lead lifts and as per specific KSRB Pg No.17,Sl No.4.46.2 Rev. Basic Rate Sub Total Add 12% For Area weightage Providing and removing,centering, shuttering, strutting bases of columns for mass concrete including cost of KSRB Pg No.15,Sl No.4.28 Basic Rate Sub Total Add 12% For Area weightage	Rate Rate Rate Rate	ing members wherever terials, labour, HOM of arge. FE 500 60607.00 7272.84 67879.84 MT k for foundations, footing ications. 231.00 231.00 27.72 258.72 Sqm
	lapping and / or welding wherever required, tying with necessary complete as per design (laps and wastage somachinery complete with all lead lifts and as per species KSRB Pg No.17,Sl No.4.46.2 Rev. Basic Rate Sub Total Add 12% For Area weightage Providing and removing, centering, shuttering, strutting bases of columns for mass concrete including cost of KSRB Pg No.15,Sl No.4.28 Basic Rate Sub Total	Rate	ing members wherever terials, labour, HOM of arge. FE 500 60607.00 60607.00 7272.84 67879.84 MT k for foundations, footing ications. 231.00 231.00 27.72 258.72 Sqm
5	lapping and / or welding wherever required, tying with necessary complete as per design (laps and wastage smachinery complete with all lead lifts and as per speciksrian per species species per species per species per species per specifications. lapping and wastage species per specifications per species per specifications.	Rate	ing members wherever terials, labour, HOM of arge. FE 500 60607.00 60607.00 7272.84 67879.84 MT k for foundations, footing ications. 231.00 231.00 27.72 258.72 Sqm
5	lapping and / or welding wherever required, tying with necessary complete as per design (laps and wastage smachinery complete with all lead lifts and as per specifications. KSRB Pg No.17,Sl No.4.46.2 Rev. Basic Rate Sub Total Add 12% For Area weightage Providing and removing,centering, shuttering, strutting bases of columns for mass concrete including cost of KSRB Pg No.15,Sl No.4.28 Basic Rate Sub Total Add 12% For Area weightage Providing and removing centering, shuttering, strutting walls at any thickness, including attached pilasters, but complete as per specifications. KSRB Pg No.15,Sl No.4.31	Rate	ing members wherever terials, labour, HOM of arge. FE 500 60607.00 60607.00 7272.84 67879.84 MT k for foundations, footing ications. 231.00 231.00 27.72 258.72 Sqm rk for vertical surface such of all materials, labour
5	lapping and / or welding wherever required, tying wit necessary complete as per design (laps and wastage s machinery complete with all lead lifts and as per speciksrip Rybon. 17, Sl No. 4.46.2 Rev. Basic Rate Sub Total Add 12% For Area weightage Providing and removing, centering, shuttering, struttin bases of columns for mass concrete including cost of KSRB Pg No. 15, Sl No. 4.28 Basic Rate Sub Total Add 12% For Area weightage Providing and removing centering, shuttering, struttin walls at any thickness, including attached pilasters, but complete as per specifications. KSRB Pg No. 15, Sl No. 4.31 Basic Rate	Rate	ing members wherever terials, labour, HOM of arge. FE 500 60607.00 7272.84 67879.84 MT k for foundations, footing ications. 231.00 231.00 27.72 258.72 Sqm rk for vertical surface such of all materials, labour

	Providing and removing centering, shuttering, strutting, pro		
7	roofs, landings, balconies and likes, thickness upto 200mm is specification. (Ground floor)	including cost of all materials, labour	complete as per
	KSRB,Pg No.15,Sl No.4.18		
	Basic Rate		212.00
			313.00
	Sub Total		313.00
	Add 12% For Area weightage	Rate	37.56
		nate	350.56 Sqm
	KSRRB M2200 - Providing Weep holes Providing weep hole	es in Brick masonry / Plain / Reinforce	d concrete abutment. wi
	wall / return wall with PVC 90mm outer dia pipe 2 kg / Sqcr		
8	1V:20H towards drawing force complete as per drawing and		
J	KSRB,Pg No.225,Sl No.28.10	·	
	Basic Rate		168.00
	Less cost of Material (AC Pipe)		-50.00
	Sub Total		118.00
	Add Cost of PVC 90mm outer dia pipe 2 kg / Sqcm		135.00
			253.00
	IAdd 12% For Area weightage		30.36
	Add 12% For Area weightage	Rate	30.36 283.36 Rmt
	Add 12% For Area weightage	Rate	
			283.36 Rmt
	Providing and laying of filter media with granular materials/	stone crushed aggrigates satisfying th	283.36 Rmt
	Providing and laying of filter media with granular materials/clause 2500.4.2.2 of morth specification to a thickness not l	stone crushed aggrigates satisfying thess than 600 mm with smaller size to	283.36 Rmt ne requirement laid dow wards the soil and bigge
9	Providing and laying of filter media with granular materials/clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface	stone crushed aggrigates satisfying the less than 600 mm with smaller size to behind the abutment, wing wall and re	283.36 Rmt ne requirement laid dow wards the soil and bigge
9	Providing and laying of filter media with granular materials, clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface compacted to afirm condition complete as per drawing and	stone crushed aggrigates satisfying the less than 600 mm with smaller size to behind the abutment, wing wall and re	283.36 Rmt ne requirement laid dow wards the soil and bigge
9	Providing and laying of filter media with granular materials/clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface	stone crushed aggrigates satisfying the less than 600 mm with smaller size to behind the abutment, wing wall and re	283.36 Rmt ne requirement laid dow wards the soil and bigge
9	Providing and laying of filter media with granular materials, clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface compacted to afirm condition complete as per drawing and	stone crushed aggrigates satisfying the less than 600 mm with smaller size to behind the abutment, wing wall and re	283.36 Rmt ne requirement laid dow wards the soil and bigge
9	Providing and laying of filter media with granular materials, clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface compacted to afirm condition complete as per drawing and KSRB,Pg No.225,Sl No.28.13	stone crushed aggrigates satisfying the less than 600 mm with smaller size to behind the abutment, wing wall and re	283.36 Rmt ne requirement laid dow wards the soil and bigge eturn wall to full hight
9	Providing and laying of filter media with granular materials/clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface compacted to afirm condition complete as per drawing and KSRB,Pg No.225,Sl No.28.13 Basic Rate Sub Total	stone crushed aggrigates satisfying the less than 600 mm with smaller size to behind the abutment, wing wall and re	283.36 Rmt ne requirement laid dow wards the soil and bigge eturn wall to full hight 1296.00
9	Providing and laying of filter media with granular materials/clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface compacted to afirm condition complete as per drawing and KSRB,Pg No.225,Sl No.28.13 Basic Rate	stone crushed aggrigates satisfying the less than 600 mm with smaller size to behind the abutment, wing wall and re	283.36 Rmt ne requirement laid dow wards the soil and bigge eturn wall to full hight 1296.00 1296.00 155.52
9	Providing and laying of filter media with granular materials/clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface compacted to afirm condition complete as per drawing and KSRB,Pg No.225,Sl No.28.13 Basic Rate Sub Total	/stone crushed aggrigates satisfying thess than 600 mm with smaller size to behind the abutment, wing wall and related the specification	283.36 Rmt ne requirement laid dow wards the soil and bigge eturn wall to full hight 1296.00 1296.00
9	Providing and laying of filter media with granular materials/clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface compacted to afirm condition complete as per drawing and KSRB,Pg No.225,SI No.28.13 Basic Rate Sub Total Add 12% For Area weightage	/stone crushed aggrigates satisfying these than 600 mm with smaller size to behind the abutment, wing wall and related technical specification Rate	283.36 Rmt ne requirement laid dow wards the soil and bigge eturn wall to full hight 1296.00 1296.00 155.52 1451.52 Cum
9	Providing and laying of filter media with granular materials, clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface compacted to afirm condition complete as per drawing and KSRB,Pg No.225,SI No.28.13 Basic Rate Sub Total Add 12% For Area weightage KSRB 2.3: Filling available excavated earth (excluding rock) i	/stone crushed aggrigates satisfying thess than 600 mm with smaller size to behind the abutment, wing wall and related the specification Rate Ra	283.36 Rmt ne requirement laid dow wards the soil and bigge eturn wall to full hight 1296.00 1296.00 155.52 1451.52 Cum ayers not exceeding 20c
	Providing and laying of filter media with granular materials/ clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface compacted to afirm condition complete as per drawing and KSRB,Pg No.225,SI No.28.13 Basic Rate Sub Total Add 12% For Area weightage KSRB 2.3: Filling available excavated earth (excluding rock) i In depth, compacting each deposited layer by ramming after	/stone crushed aggrigates satisfying these than 600 mm with smaller size to behind the abutment, wing wall and related technical specification Rate in sides of foundations upto plinth in lear watering with lead upto 50m. and line	283.36 Rmt ne requirement laid dow wards the soil and bigge eturn wall to full hight 1296.00 1296.00 155.52 1451.52 Cum ayers not exceeding 20c
	Providing and laying of filter media with granular materials, clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface compacted to afirm condition complete as per drawing and KSRB,Pg No.225,SI No.28.13 Basic Rate Sub Total Add 12% For Area weightage KSRB 2.3: Filling available excavated earth (excluding rock) i	/stone crushed aggrigates satisfying these than 600 mm with smaller size to behind the abutment, wing wall and related technical specification Rate in sides of foundations upto plinth in lear watering with lead upto 50m. and line	283.36 Rmt ne requirement laid dow wards the soil and bigge eturn wall to full hight 1296.00 1296.00 155.52 1451.52 Cum ayers not exceeding 20c
	Providing and laying of filter media with granular materials/clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface compacted to afirm condition complete as per drawing and KSRB,Pg No.225,SI No.28.13 Basic Rate Sub Total Add 12% For Area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in depth, compacting each deposited layer by ramming after of all labour complete as per specifications. Specification No. KSRB Pg No.6,SI No.2.10	/stone crushed aggrigates satisfying these than 600 mm with smaller size to behind the abutment, wing wall and related technical specification Rate in sides of foundations upto plinth in lear watering with lead upto 50m. and line	283.36 Rmt ne requirement laid dow wards the soil and bigge eturn wall to full hight 1296.00 1296.00 155.52 1451.52 Cum ayers not exceeding 20c ft upto 1.5m. including c
	Providing and laying of filter media with granular materials/ clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface compacted to afirm condition complete as per drawing and KSRB,Pg No.225,SI No.28.13 Basic Rate Sub Total Add 12% For Area weightage KSRB 2.3: Filling available excavated earth (excluding rock) i In depth, compacting each deposited layer by ramming after of all labour complete as per specifications. Specification No. KSRB Pg No.6,SI No.2.10 Basic Rate	/stone crushed aggrigates satisfying these than 600 mm with smaller size to behind the abutment, wing wall and related technical specification Rate in sides of foundations upto plinth in lear watering with lead upto 50m. and line	283.36 Rmt ne requirement laid dow wards the soil and bigge eturn wall to full hight 1296.00 1296.00 155.52 1451.52 Cum ayers not exceeding 20c ft upto 1.5m. including c
9	Providing and laying of filter media with granular materials/clause 2500.4.2.2 of morth specification to a thickness not I size towards the wall and provided over the entire surface compacted to afirm condition complete as per drawing and KSRB,Pg No.225,SI No.28.13 Basic Rate Sub Total Add 12% For Area weightage KSRB 2.3: Filling available excavated earth (excluding rock) in depth, compacting each deposited layer by ramming after of all labour complete as per specifications. Specification No. KSRB Pg No.6,SI No.2.10	/stone crushed aggrigates satisfying these than 600 mm with smaller size to behind the abutment, wing wall and related technical specification Rate in sides of foundations upto plinth in lear watering with lead upto 50m. and line	283.36 Rmt ne requirement laid dow wards the soil and bigge eturn wall to full hight 1296.00 1296.00 155.52 1451.52 Cum ayers not exceeding 20c ft upto 1.5m. including c

Executive Engineer MSCL Mangaluru

MANGALURU SMART CITY

1.7 Measurement Sheet of UNDERGROUND DRAINAGE Zone 4 Part 2 and Zone 3 Part 1

RCC inspection chamber (sewer line)

Item No	RA Ref. No	Descriptions		Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate (Rs)	Amount (Rs)	Remarks
1.0	1	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches in ordinary soil including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead and lift after breaking of clods complete as per specifications, as per direction of Engineer etc., complete by manual means		Cum								
			A= (3.142*(.8+.1+ .1)^2)/4		1	0.79		0.79	0.62			
				Cum Cum				Total Say	0.62 0.70	211.68	148.18	
2		Providing and laying in position plain cement concrete M15 grade with granite graded metal of 20 mm and down size and clean sieved river sand for foundation and levelling course, machine mixed, concrete laid, well compacted, including cost and conveyance		Cum				July	0.70	211.00	140.10	
				Cum	1	0.79		0.10	0.08			
						0.73		Total	0.08	6 000 00	500.00	
				Cum				Say	0.10	6,093.92	609.39	
3	3	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregates @ 0.47cum, with super plasticisers @ 3 liters conforming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestrals, retaining walls, returnwalls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.		Cum								
		Foundation Raft		Cum	1	0.50		0.15	0.08			
	2	Walls			1	2.20 2.51	0.10 0.10	0.60 0.10	0.13 0.03			
				Cum Cum				Total Say	0.23 0.25	6,967.52	1,741.88	
4	4	Providing and fabricating TMT Steel reinforcement bars of Fe-500 grade including straightening the bars, cutting, bending, hooking and placing in position, lapping and or welding wherever required, tying with binding wire, anchoring to the adjoining members wherever necessary as per approved design and drawings including cost and conveyance of all materials with all leads and lifts, loading and unloading, all labour, hire charges of machineries, T&P, etc. complete and all other incidental items of works required for successful completion of the work as per approved drawings, specifications and as directed by the Engineer-in-charge. (Laps, hooks, chairs and wastages will not be measured and will not be paid for separately.)		MT				Jay	0.23	0,907.32	1,741.00	
				MT	1	0.23			0.015			
				MT	<u> </u>	0.23		Say	0.015	67,879.84	1,018.20	
5	5	Providing and removing, centering, shuttering, strutting, propping etc and removal of form work for foundations, bases of columns for mass concrete including cost of all materials, labour complete as per specifications		Sqm							-	
		For raft		Sqm	1	2.51		0.15 Total	0.38 0.38		-	
				Sqm				Say	0.40	258.72	103.49	
						<u> </u>	<u> </u>					

6		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls of any thickness including cost of all materials, labour complete as per specification.	Sqm								
		Outer wall	Sqm	1	2.51		0.60	1.51		-	
		Inner wall	Sqm	1	1.89		0.60	1.13		-	
		top edge outer	Sqm	1	2.83		0.10	0.28		-	
		top edge inner	Sqm	1	2.20		0.10	0.22			
			Sqm			Т	Total	3.14		-	
			Sqm				Say	3.20	328.16	1,050.11	
7	7	Refilling pipeline trenches and foundation with selected available earth from trench excavation and foundation including watering, consolidation in layers of 15 cms., thickness including disposing off the surplus earth with all lead and lift, Including environmental and social safe guards, including all taxes, as directed by the Engineer-in-Charge etc., complete.									
		Total Excavation	Cum					0.62			
		Deduct PCC	Cum					-0.08			
		Deduct Raft						-0.08			
		Deduct Chamber	Cum	-1	0.50		0.70	-0.35			
			Cum				Total	0.11			
			Cum				Say	0.20	66.08	13.22	
8	8	Supply and fixing SFRC manhole cover and frame (heavy duty) confirming to IS:12592 with latest ammendments	Nos	1				1.00	1,952.50	1,952.50	
									Total	6,636.96	
									Say	6,637.00	
									<u> </u>		

Executive Engineer MSCL Mangaluru

MANGALURU SMART CITY

1.8 Rate Analysis of Underground Drainage Zone 4 Part 2 and Zone 3 Part 1

	Rate Analysis For RCC Inspec	tion Chaml	ber		
SI. No	Descriptions	Unit	SR Rate (Rs)	SR Ref.	Remarks
1	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches in ordinary soil including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead and lift after breaking of clods complete as per specifications, as per direction of Engineer etc., complete by manual means-	Cum		PWD SR 16-17 Page 5 Item No 2.3	
	Basic Rate		189.00		
	A.W. 12%		22.68		
	Total	Cum	211.68		
2	Providing and laying in position plain cement concrete M15 grade with granite graded metal of 20 mm and down size and clean sieved river sand for foundation and levelling course, machine mixed, concrete laid, well compacted, including cost and conveyance of all materials, all leads and lifts, loading and unloading, labour, hire charges of machinery, T&P., curing and all other incidental items of work required for successful completion of the work and as directed by the Engineer -in-charge of the work etc complete.	Cum		PWD SR 16-17 Page 12 Item No 4.6	
	Basic Rate		5441.00		
	A.W. 12%		652.92		
	Total	Cum	6093.92		
3	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregates @0.47cum, with super plasticisers @ 3 liters conforming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestrals, retaining walls, returnwalls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.	Cum		PWD SR 16-17 Page 13 Item No 4.10	
	Basic Rate		6221.00		
	A.W. 12%		746.52		

4	Providing and fabricating TMT Steel reinforcement bars of Fe-500 grade including straightening the bars, cutting, bending, hooking and placing in position, lapping and or welding wherever required, tying with binding wire, anchoring to the adjoining members wherever necessary as per approved design and drawings including cost and conveyance of all materials with all leads and lifts, loading and unloading, all labour, hire charges of machineries, T&P, etc. complete and all other incidental items of works required for successful completion of the work as per approved drawings, specifications and as directed by the Engineer-in-charge. (Laps, hooks, chairs and wastages will not be measured and will not be paid for separately)	MT		PWD SR 16-17 Page No 17 SI No 4.46.2	ISSUE Rate
	Basi Rate		60607.00		
	A.W. 12%		7272.84		
	Total rate	MT	67879.84		
5	Providing and removing, centering, shuttering, strutting, propping etc and removal of form work for foundations, bases of columns/raft, including cost of all materials, labour complete as per specifications	Sqm		PWD SR 16-17 Page No 15 SI no 4.28	
	Basic Rate		231.00		
	A.W. 12%		27.72		
	Total	Sqm	258.72		
6	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls of any thickness, slabs, including cost of all materials, labour complete as per specifiation. Basic rate A.W. 12%	Sqm	293.00 35.16		
	Total	Sqm	328.16		
	Total	Jqiii	320.10		
7	Refilling pipeline trenches and foundation with selected available earth from trench excavation and foundation including watering, consolidation in layers of 15 cms., thickness including disposing off the surplus earth with all lead and lift, Including environmental and social safe guards, including all taxes, as directed by the Engineer-in-Charge etc., complete.	Cum		KUWS&DB SR 2015- 16. P-15, I-2	
	Basic rate		59.00		
	A.W. 12%		7.08		
	Total Rate	Cum	66.08		
8	Supply and fixing SFRC manhole cover and frame (Heavy duty) confirming to IS:12592 with latest ammendments	Nos		KUWS&DB SR 2015- 16. P-221,	
	Basic rate		1775.00		
	Fixing charges 10%		177.50		
	Total Rate		1952.50		

Executive Engineer MSCL Mangaluru

MANGALURU SMART CITY

1.9 Rate Analysis of Underground Drainage Zone 4 Part 2 and Zone 3 Part 1

Electrical Rate Analysis for pole shifting work in Under Ground Drainage System

RA No.	Description	SR	Ref	Unit	Basic	Labour/lead /lift/dewater ing/MISC etc.,	Locality Allowance @ 45% on labour	Total	Remarks
1	Releasing and erection of 9 metre RCC poles including transportation to work site with all lead from factory and head load from the nearest road; digging a pit to a depth up to of 1.8 mtr giving coating of colour, aligning it, refilling the soil removed, complete for each pole, for a average span of maximum 50mtres as per KPTCL rules.(Including all lead and Lift)	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.1,(b)	Nos					
	Releasing of 9 mtr RCC pole is 90%of erection ie 1060*90%					954.00			
	Erection of 9 mtr RCC pole is 1060					1060.00			
						2014.00	906.3	2,920.30	
	Grand Total							2,920.30	
2	Supply and erection of 9 metre RCC poles(using Tor50 12mm dia steel), including transportation to work site with all lead from factory and head load from the nearest road; digging a pit to a depth up to of 1.8 mtr giving coating of colour, aligning it, refilling the soil removed, complete for each pole, for a average span of maximum 50mtres as per KPTCL rules.(Including all lead and Lift)	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.1,(b)	Nos	5,941.00	1060.00	477	7,478.00	
	Grand Total							7,478.00	
	Releasing of deteriorated 9mtr RCC poles and handing over the unused materials to MESCOM including all lead and lift.	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.1,(b)	Nos					
3	Releasing of 9 mtr RCC pole is 90% of erection ie 1060* 90%					954.00			
J	Transpotation 2% on material ie 5941*2%					118.82			
						1072.82	482.769	1,555.59	
	Grand Total							1,555.59	
	Releasing and erection of 11 Mtr ISMB poles including transportation to work site with all lead from factory and head load from the nearest road; digging a pit to a depth up to of 1.8 mtr giving coating of colour, aligning it, refilling the soil removed, complete for each pole, for a average span of maximum 50mtres as per KPTCL rules.(Including all lead and Lift)	MESCOM -SR 2016-17	11kv labour cost SI .No.55 item No.2.6	Nos					
4	Releasing of 9 mtr RCC pole is 90%of erection ie 1088*90%					979.20			

RA No.	Description	SR	Ref	Unit	Basic	Labour/lead /lift/dewater ing/MISC etc.,	Locality Allowance @ 45% on labour	Total	Remarks
	Erection of 9 mtr RCC pole is 1088					1088.00			
						2067.20	930.24	2,997.44	
	Grand Total							2,997.44	
5	Supply and erection of 11 metre ISMB,200X100mm Size including transportation to work site with all lead from factory and head load from the nearest road; digging a pit to a depth up to of 1.8 mtr giving coating of colour, aligning it, refilling the soil removed, complete for each pole, for a average span of maximum 50mtres as per KPTCL rules.(Including all lead and Lift)	MESCOM -SR 2016-17	stock material SI No.14 item No.1.14,11kv labour cost SI .No.55 item No.2.6	Nos	15,657.00	1088.00	489.6	17,234.60	
	Grand Total							17,234.60	
6	Pole base concretiong: supplying and construction 9mtr RCC pole concreting including all materials and labour, shuttering including all lead and lift size:500*650*150mm 1:4:8	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XXIX,(a)	Each	229.00			229.00	
	Grand Total							229.00	
7	Pole base concretiong: supplying and construction 11mtr ISMB pole concreting including all materials and labour, shuttering including all lead and lift size:500*650*150mm	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XXIX,(c)	Each	704.00			704.00	
	Grand Total							704.00	
8	Pole concretiong: supplying and construction 9mtr RCC pole concreting including all materials and labour, shuttering including all lead and lift size:650*500*1700mm 1:2:4	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XXIX,(a)	Each	2,566.00			2,566.00	
	Grand Total							2,566.00	
9	Pole concretiong: supplying and construction 11mtr ISMB pole concreting including all materials and labour, shuttering including all lead and lift size:650*500*2000mm 1:2:4	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XXIX,(c)	Each	2,721.00			2,721.00	
	Grand Total							2,721.00	
	Releasing and refixing of 11kv Horizontal cross arm with HT Single top support , clamps, bolts, nuts and washers including all lead and lift and MESCOM Norms.	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.VIII,(a)	set					

RA No.	Description	SR	Ref	Unit	Basic	Labour/lead /lift/dewater ing/MISC etc.,	Locality Allowance @ 45% on labour	Total	Remarks
10	Releasing 90% of erection ie is 99*90%					89.10			
	Erection is 88					99.00			
						188.10	84.645	272.75	
	Grand Total							272.75	
11	Supplying and and fixing of 11kv Horizontal cross arm with HT Single top support , clamps, bolts, nuts and washers including all lead and lift and MESCOM Norms.	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.VIII,(a)	set	382.00	99.00	44.55	525.55	
	Grand Total							525.55	
	'Releasing of deteriorated HT cross arms and handing over the unused materials to MESCOM including all lead and lift.	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.VIII,(a)	set					
42	Releasing 90% of erection ie is 99*90%					89.10			
12	Transpotation 2% on material ie 382*2%					7.64			
						96.74	43.533	140.27	
	Grand Total							140.27	
	Releasing and fixing of 4 pin LT Horizontal cross arms, fabricated out of mild steel structure steel as per KPTCL standards complete set with all fixing accessories like bolt, nuts, washers, pole clamps etc., including all necessary lead and lift.	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.X(a)	set					
13	Releasing 90% of erection ie is 96*90%					86.40			
	erection-85					96.00			
						182.40	82.08	264.48	
	Grand Total							264.48	
14	Supply and fixing of 4 pin LT horizontal cross arms, fabricated out of mild steel structure steel as per KPTCL standards complete set with all fixing accessories like bolt, nuts, washers, pole clamps etc., including all necessary lead and lift.	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.X(a)	set	263.00	96.00	43.2	402.20	
	Grand Total							402.20	

RA No.	Description	SR	Ref	Unit	Basic	Labour/lead /lift/dewater ing/MISC etc.,	Locality Allowance @ 45% on labour	Total	Remarks
	'Releasing of deteriorated 4 pin cross arms and handing over the unused		11kv Materials and labour						
	materials to MESCOM including all lead and lift.	MESCOM -SR 2016-17	cost	set					1 1
			S.No.X(a)						
15	Releasing 90% of erection ie is 96*90%		1			76.50			
13	Transpotation 2% on material ie 263*2%					5.26			
	Total					81.76	36.79	118.55	
	Grand Total							118.55	
16	Releasing and fixing of Guy sets with break insulators, steel rope, turn buckle and anchoring arrangements with necessary earth work excavation, providing and laying of concrete inclduing curing etc. complete as per KPTCL specification and rules.(including all lead and lift)	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XVIII,(b)	set					
16	Releasing 90% of erection ie is 374*90%					336.60			
	erection ie is 374					374.00			
						710.60	319.77	1,030.37	
	Grand Total							1,030.37	
17	Supply and fixing of Guy sets with break insulators, steel rope, turn buckle and anchoring arrangements with necessary earth work excavation, providing and laying of concrete inclduing curing etc. complete as per KPTCL specification and rules.(including all lead and lift)	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XVIII,(b)	set	775.00	374.00	168.3	1,317.30	
	Grand Total							1,317.30	
	Releasing and restringing of HT conductor and handing over the unused materials to MESCOM including all lead and lift	MESCOM -SR 2016-176	11kv Materials and labour cost S.No.XVI,(b)	KM					
18	Releasing 90% of stringing ie is 2608* 90%					2347.20			
10	stringing ie is 2608					2608.00			
						4955.20	2229.84	7,185.04	
	Grand Total							7,185.04	
19	Supplying and stringing of ACSR (Rabbit) conductor for Jumps, including all necessary binding to the insulator (Cost to include all materials for accessories) including necessary lead and lifts as per KPTCL specification .(including all lead and lift)	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XVI,(b)	KM	33,676.00	2608.00	1173.6	37,457.60	

RA No.	Description	SR	Ref	Unit	Basic	Labour/lead /lift/dewater ing/MISC etc.,	Locality Allowance @ 45% on labour	Total	Remarks
	Grand Total							37,457.60	
	Releasing and restringing of LT conductor and handing over the unused materials to MESCOM including all lead and lift	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XVI,(a)	KM					
20	Releasing 90% of stringing ie is 1913* 90%					1721.70			
20	stringing ie is 1913					1913.00			
						3634.70	1635.615	5,270.32	
	Grand Total							5,270.32	
21	Supplying and restringing of LT conductor and handing over the unused materials to MESCOM including all lead and lift	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XVI,(a)	KM	20,100.00	1913.00	860.85	22,873.85	
	Grand Total							22,873.85	
22	Supplying and fixing of 11 KV class pin insulators and GI pin and nut as per KPTCL rules and specifications(including all lead and lift)	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XV,(a)	Nos	94.00			94.00	
	Grand Total							94.00	
23	Supplying and fixing of 1.1 KV class pin insulators and GI pin and nut as per KPTCL rules and specifications(including all lead and lift)	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XV,(d)	Nos	38.00			38.00	
	Grand Total							38.00	
24	Supplying and fixing of No 8 strain insulators as per KPTCL rules and specifications. (Including all lead and lift)	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XV,(c)	Nos	14.00			14.00	
	Grand Total							14.00	
25	Supplying and fixing of 11 KV Disc insulator (45KN) including fixing accessories such as clamps, bolts and nuts etc as per KPTCL specifications (including all lead and lift)	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XV,(e)	Nos	290.00			290.00	
	Grand Total							290.00	

RA No.	Description	SR	Ref	Unit	Basic	Labour/lead /lift/dewater ing/MISC etc.,	Locality Allowance @ 45% on labour	Total	Remarks
26	Releasing and Replacing 11kv Pin insulator	MESCOM -SR 2016-17	11kv Labour portion S.No.58 item No.2.9	Nos		28.00	12.6	40.60	
	Grand Total							40.60	
27	Releasing and Replacing dead end disc 45kn insulator	MESCOM -SR 2016-17	11kv Labour portion S.No.58 item No.2.10	Nos		34.00	15.3	49.30	
	Grand Total							49.30	
	Releasing, erection, transportation upto site of DP structure using 9mtr long RCC pole and accessories such as cross arms, brace arms(Horizontal & cross member), strain plates, civil works, channels, Angles, bolts, nuts etc including all lead and lift.	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.V,(a)	set					
28	Releasing of 9 mtr RCC DP is 90% of erection ie 3252*90%					2926.80			
	Erection of 9 mtr RCC DP is 3252					3252.00			
						6178.80	2780.46	8,959.26	
	Grand Total							8,959.26	
29	Supply, erection, transportation upto site of DP structure using 9mtr RCC pole and accessories such as cross arms, brace arms(Horizontal & cross member), strain plates, civil works, channels, Angles, bolts, nuts etc including all lead and lift.	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.V,(a)	set	15,910.00	3252.00	1463.4	20,625.40	
	Grand Total							20,625.40	
	Releasing of Transformer DP structure and handing over the unused materials to MESCOM including all lead and lift.	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.VII,1(a)	set					
30	Releasing is 90% of erection ie 4115*90%					3703.50			
30	Transpotation 2% on material ie 19271*2%					385.42			
						4088.92	1840.014	5,928.93	
	Grand Total							5,928.93	

RA No.	Description	SR	Ref	Unit	Basic	Labour/lead /lift/dewater ing/MISC etc.,	Locality Allowance @ 45% on labour	Total	Remarks
	'Releasing and Re-errection of 63KVA Transformer along with Distribution box ,associated equipment of the transfomer centre and handing over the unused materials to MESCOM including all lead and lift.	MESCOM SR2016-17 COST DATA SHEETS	11kv Materials and labour cost S.No.25a	per unit					
31.1	Releasing is 90% of erection ie 11078* 90%					9970.20			
	Erection-10014					10014.00			
						19984.20	8992.89	28,977.09	
	Grand Total							28,977.09	
	Releasing and Re-errection of released 63 kVA transformer in temperary location and shifting the same back to original loacation after completion of pipe line work along with associated equipment of the transfomer centre as per Dgr NoKEB/SIC / WS/022/date :12.9.86 and handing over the unused	MESCOM SR2016-17 COST DATA SHEETS	11kv Materials and labour cost S.No.25a	per unit					
31.2	Releasing is 90% of erection ie 11078* 90%x2					19940.40			
	Erection-10014*2					20028.00			
						39968.40	17985.78	57,954.18	
	Grand Total							57,954.18	
	'Releasing and Re-errection of 100KVA Transformer along with Distribution box ,associated equipment of the transfomer centre and handing over the unused materials to MESCOM including all lead and lift.	MESCOM SR20164-17 COST DATA SHEETS	11kv Materials and labour cost S.No.26a(iii)	per unit					
32.1	Releasing is 90% of erection ie 11679* 90%					10511.10			
	Erection-11679					11679.00			
						22190.10	9985.545	32,175.65	
	Grand Total							32,175.65	
	Releasing and Re-errection of released 100 kVA transformer in temperary location and shifting the same back to original loacation after completion of pipe line work along with associated equipment of the transfomer centre as per Dgr NoKEB/SIC / WS/022/date :12.9.86 and handing over the unused	MESCOM SR20164-17 COST DATA SHEETS	11kv Materials and labour cost S.No.26a(iii)	per unit					
32.2	Releasing is 90% of erection ie 11679* 90%*2					21022.20			
	Erection-11679*2					23358.00			
						44380.20	19971.09	64,351.29	

RA No.	Description	SR	Ref	Unit	Basic	Labour/lead /lift/dewater ing/MISC etc.,	Locality Allowance @ 45% on labour	Total	Remarks
	Grand Total							64,351.29	
	'Releasing and Re-errection of 250KVA Transformer along with Distribution box ,associated equipment of the transfomer centre and handing over the unused materials to MESCOM including all lead and lift.	MESCOM SR2016-17 COST DATA SHEETS	11kv Materials and labour cost S.No.27a	per unit					
	Releasing is 90% of erection ie 10971* 90%					9873.90			
	Erection-10971					10971.00			
						20844.90	9380.205	30,225.11	
	Releasing and Re-errection of released 250 kVA transformer in temperary location and shifting the same back to original loacation after completion of pipe line work along with associated equipment of the transfomer centre as per Dgr NoKEB/SIC / WS/022/date :12.9.86 and handing over the unused released materials to MESCOM including all lead and lift.	MESCOM SR2016-17 COST DATA SHEETS	11kv Materials and labour cost S.No.27a	per unit					
	Releasing is 90% of erection ie 10971* 90%*2					19747.80			
	Erection-10971*2					21942.00			
						41689.80	18760.41	60,450.21	
	Grand Total							60,450.21	
	Releasing and Refixing of 200A Single Break GOS and handing over the unused materials to MESCOM including all lead and lift.	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XXIV(a)	set					
34	Releasing is 90% of erection ie 636* 90%					572.40			
	Erection-563					636.00			
						1208.40	543.78	1,752.18	
	Grand Total							1,752.18	
	Releasing and Refixing of HG Fuse Unit and handing over the unused materials to MESCOM including all lead and lift.	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XXV	set					
35	Releasing is 90% of erection ie 423*90%					380.70			
	Erection-375					423.00			
						803.70	361.665	1,165.37	

RA No.	Description	SR	Ref	Unit	Basic	Labour/lead /lift/dewater ing/MISC etc.,	Locality Allowance @ 45% on labour	Total	Remarks
	Grand Total							1,165.37	
	Releasing and Refixing of Lightning Arrestors and handing over the unused materials to MESCOM including all lead and lift.	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XXVIII (ii)	set					
36	Releasing is 90% of erection ie 71*90%					63.90			
	Erection-71					71.00			
						134.90	60.705	195.61	
	Grand Total							195.61	
	Releasing and Refixing of LT Protection Kit and handing over the unused materials to MESCOM including all lead and lift.	MESCOM -SR 2016-17	Cost data sheet 26 S.No.17(a)	set					
27	Releasing is 90% of erection ie 410*90%					369.00			
37	Erection-410					410.00			
						779.00	350.55	1,129.55	
	Grand Total							1,129.55	
	Releasing and Refixing of Distribution Box and handing over the unused materials to MESCOM including all lead and lift.	MESCOM -SR 2016-17	Cost data sheet 26 S.No.17(b)	set					
	Releasing is 90% of erection ie 455*90%					409.50			
38	Erection-455					455.00			
						864.50	389.025	1,253.53	
	Grand Total							1,253.53	
	Releasing and refixing street light fitting including wiring and testing the connection and proper function of the fitting including all lead and lift as per MESCOM /MCC norms	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.163-16.2	sset					
39	Releasing is 90% of fixing ie 176*90%					158.40			
	Fixing-176					176.00			
						334.40	150.48	484.88	
	Grand Total							484.88	

RA No.	Description	SR	Ref	Unit	Basic	Labour/lead /lift/dewater ing/MISC etc.,	Locality Allowance @ 45% on labour	Total	Remarks
40	Releasing and reconnection of House service connection ,fixing PVC pipe for taking the leads from the conductor to the pole fuse board or line conductor (including taking the lead wire inside the pvc pipe & giving connection to the overhead line & pole fuse box/ fuse board including all lead and lift as per MESCOM Norms	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.152-14.11	set					
40	Releasing is 90% of fixing ie 131*90%					117.90			
	Fixing-131					131.00			
						248.90	112.005	360.91	
	Grand Total							360.91	
41	Supplying and fixing 2.5m long 40mm dia GI earth electrode for DP structures, with necessary salt and charcoal, excavation for the pits, masonary chamber with cover all as specified in IS 3043 and drawing including 10SWg GI wire with all lead and lift.	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XXVIII(a)	per electrod e	1,227.00	573.00	257.85	2,057.85	
	Grand Total							2,057.85	
	Releasing and stringing of 1.1kv grade aerial bunched 3/2 core cable of XLPE insulation stranded aluminium conductor stranded around a weather resistant black XLPE insulated AAA Messenger wire 3*95 for phase conductor and 1*70 is neutral and 1*16 street light including all lead and lift as mescom/MCC norms	MESCOM -SR 2016-17	11kv Labour portion S.No.308 item No.46.3	Km					
42	Releasing is 90% of fixing ie 20426*90%					18383.40			
	Stringing-20426					20426.00			
						38809.40	17464.23	56,273.63	
	Grand Total							56,273.63	
	Supplying and fixing of guarding materials for HT & LT and P & T cum road guard etc., complete as per IE/KPTCL Rules & Specifications complete with all necessary accessories. (including all lead and lift)	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XVIII(c)	set					
43	Releasing 90% of erection-1059*90%					953.10			
	erection-1059					1059.00			
						2012.10	905.445	2,917.55	
	Grand Total							2,917.55	

RA No.	Description	SR	Ref	Unit	Basic	Labour/lead /lift/dewater ing/MISC etc.,	Locality Allowance @ 45% on labour	Total	Remarks
44	Supplying and fixing of guarding materials for HT & LT and P & T cum road guard etc., complete as per IE/KPTCL Rules & Specifications complete with all necessary accessories. (including all lead and lift)	MESCOM -SR 2016-17	11kv Materials and labour cost S.No.XVIII(c)	Mtr	3,400.00	1059.00	476.55	4,935.55	
	Grand Total							4,935.55	
	Releasing and relaing follwing size of Under ground cable of house service connection including termination and testing of proper function including all lead and lift	MESCOM -SR 2016-17	11kv Labour portion S.No.262 item No.35.1	km					
	2.5 to 25sqmm 2C/4C Aluminiumn cable								
45	Releasing is 90% laying=12774*90%					11496.60			
	laying=11304					12774.00			
						24270.60	10921.77	35,192.37	
	Grand Total							35,192.37	
46	Supplying and fixing straight through jointing kit suitable for 1.1kv class LT UG cable including all lead and lift as per MESCOM Norms including all lead and lift								
	10/16sqmm	PWD SR 2014-15	Page No 63 item No.7.15.2	kit	1,327.00			1,327.00	
46.1	Grand Total							1,327.00	
16.0	25/35sqmm	PWD SR 2014-15	Page No 63 item No.7.15.3	kit	1,604.00			1,604.00	
46.2	Grand Total							1,604.00	
47	Providing at site inclusive of all lead and lift of brand new approved make copper/alluminium conductor PVC insulated, sheathed steel/wire steel armoured UG cable with PVC outer sheathing 1.1 KV class UG cable (confirming to ISS 1554.)(including all lead and lift)	MESCOM -SR 2016-17							
47.1	2CX10SQMM Aluminiumn cable	MESCOM -SR 2016-17	Stock material SLNo.250 item No.36.02 and 11kv Labour portion S.No.262 item No.35.1	KM	54,334.00	12774.00	5748.3	72,856.30	
	Grand Total							72,856.30	

RA No.	Description	SR	Ref	Unit	Basic	Labour/lead /lift/dewater ing/MISC etc.,	Locality Allowance @ 45% on labour	Total	Remarks
47.2	4CX10SQMM Aluminiumn cable	MESCOM -SR 2016-17	Stock material SLNo.251 item No.36.03 and 11kv Labour portion	KM	71,551.00	12774.00	5748.3	90,073.30	
	Grand Total							90,073.30	
47.3	2CX16SQMM Aluminiumn cable	MESCOM -SR 2016-17	Stock material SLNo.252 item No.36.04 and 11kv Labour portion	KM	56,956.00	12774.00	5748.3	75,478.30	
	Grand Total							75,478.30	
47.4	4CX16SQMM Aluminiumn cable	MESCOM -SR 2016-17	Stock material SLNo.253 item No.36.05 and 11kv Labour portion	KM	90,529.00	12774.00	5748.3	109,051.30	
	Grand Total							109,051.30	
47.5	4CX25SQMM Aluminiumn cable	MESCOM -SR 2016-17	Stock material SLNo.255 item No.36.07 and 11kv Labour portion S.No.262 item No.35.1	KM	109,778.00	12774.00	5748.3	128,300.30	
	Grand Total							128,300.30	
	Releasing and relaying the existing GI/PVC pipe for house service connection including all lead and lift as per MESCOM Norms including all lead and lift		11kv Labour portion S.No.245 item No.32.16	mtr					
48	Releasing is 90% of laying ie 45*90%					40.50			
	laying=45					45.00			
	Grand Total					85.50	38.475	123.98 123.98	
49	Supplying and laying of Class A GI pipe on pole /wall/drain crossing with nexessary clamoing arrangements for UG cable of 1.1KV class.							-	
	40mm dia size	PWD-Ele SR 2014-15	Page No 62 item no7.12.1	Mtr	345.00			345.00	
49.1	Grand Total							345.00	

RA No.	Description	SR	Ref	Unit	Basic	Labour/lead /lift/dewater ing/MISC etc.,	Locality Allowance @ 45% on labour	Total	Remarks
50	Digging of trench of 0.6m deep x 0.5 m wide refilling the trench to the required ground level and consolidating etc., (including all lead and lift)		Page No 62 item no 7.9.1	Mtr	78.00			78.00	
	Grand Total							78.00	
51	Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150mm all around the Cable	PWD-Electrical SR 2014-15	Page No 62 No 7.10	Mtr	103.00			103.00	
	Grand Total							103.00	
	Shifting of poles with HT/LT lines: Shifting of electrical poles along with HT/LT cross arms to temperary location and reshifting to original position after completion of work including all lead and lift as per MESCOM /MESCOM Authority		11kv Materials and labour cost S.No.1,(b)	set					
	Dismantling of 9mtr RCC poles =1060*90%=1060*90% (90% of erection cost) x2 times	11kv Materials and labour cost	S.No.1,(b)			1908			
	Erection of 9Mtr RCC poles-2times(1060x2)	11kv Materials and labour cost	S.No.1,(b)			2120			
	Dismantlin of HT cross crom(90% of erection)x 2times-99*90%	11kv Materials and labour cost	S.No.X,(a)			178.2			
	erection cross arms x2 times=99*2	11kv Materials and labour cost	S.No.X,(a)			198			
52	Releasing of conductor(90% of stringing)=50*3=150mtr-(2608/1000*90%*150)*2	11kv Materials and labour cost	S.No.XVIII,(b)			704.16			
	stringing of Conductor=50*3=150 x2 times (2608/1000)50*3)	11kv Materials and labour cost	S.No.XVIII,(b)			782.4			
	Dismantling of guy sets(90% of erection) x2 times(374*90%*2)	11kv Materials and labour cost	S.No.XVIII,(b)			673.2			
	Erection of guy sets x2 times(374*2)	11kv Materials and labour cost	S.No.XVIII,(b)			748			
	Transpotation 2% on material cost-5941*2%	11kv Materials and labour cost	S.No.1(b)			118.82			
						7430.78	3343.851	10,774.63	

RA No.	Description	SR	Ref	Unit	Basic	Labour/lead /lift/dewater ing/MISC etc.,	Locality Allowance @ 45% on labour	Total	Remarks
	Grand Total							10,774.63	
	Releasing and erection 8 mtr strut pole including calmps digging pit, concreting withh all accessories of 8mtr PSC poles	11kv Materials and labour cost	S.No.I(c)	set					
	Releasing 90% of erection-848*90%					763.20			
53	Erection					848.00			
						1611.20	725.04	2,336.24	
	Grand Total							2,336.24	
	Realeasing and erection of 9 mtr RCC three pole structure complete set including all stanadrd accessories as per MESCOM norms /estimate including all lead and lift		SL.No.VII(1a)	set					
54	Releasing 90% of erection-4115*90%					3703.5			
	Erection					5548			
						9251.5	4163.175	13,414.68	
	Grand Total							13,414.68	

Executive Engineer MSCL Mangaluru

MANGALURU SMART CITY 2.0 Rate Analysis of Underground Drainage Zone 4 Part 2 and Zone 3 Part 1

	Rate analy	sis for De	watering	g charges					
S.No.	Description	Unit	Nos.	Length	Width	Depth	Quantity	Rate (Rs.)	Amount (Rs.)
1	Dewatering for Lowering of water table to creat dry conditions at least upto the bed of the excavation including the cost of material, labour T & P articles & machinery laying sewer line & Manholes as per approved drawings according. to the requirement of the construction of structure. The cost of this work shall be inclusive of disposal of water pumped out at a safe place away from the structure. The dewatering will work till the completion of the structure as per approved drawings ,with all horizontal leads and lifts etc., complete in all respects as per specification and as directed by engineer. During the execution of work enough precaution should be taken by the contractor to ensure that the clear water flows from the delivery pipe of pumps to avoid any settlement of soil during the process.								
	Rate analysis for Dewatering charges.								
	HOM of Pump 23 KW - KPWD,SI No.58,Code No 1079 Pg No.XXXXVIII	Day	1				1	800	800.00
	Generator 33 KVAHire charges -KPWD,Sl No.93,Code No 1322 Pg No.XXXXIX	Hr	8				8	296	2368.00
	Add Operator charges	Nos	2				2	250	500.00
							Cost for (One day	3668.00
	Add 15 % cost for idling period on sub-total								550.20
						Cost f	for One day	8 hr	4218.20

Name of the Work :- Mangaluru Smart City 2.1 Rate Analysis of Taking out existing CC interlocking Paver Blocks

Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, upto 1 Km and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(As per Rate analysis)

	Details (of cost fo	r 10 sqm.			
Sr.No.	Description	Unit	Quantity	Rate	Amount	Reference
	Labour					
a	Beldar	Day	0.25	258.88	64.72	KSRB Pg No.LIV SI No.5
b	Coolie	Day	1.00	258.88	258.88	KSRB Pg No.LIV,Sl No.6
С	Sundries	LS	2.70	1.73	4.67	CPWD Pg No 29,Code No 9999
d	Lead and Lift Charges					
	Up to 1 Km (Debris=1.30 kg/m3)	Cum	1.30	2.5	3.25	KPWD-16-17,SI No.17.4 Pg No 140
	Total				331.52	
d	Add 1% Water Charges				3.32	
	Total				334.84	
e	Add 10 % Contractor's profit and overheads				33.48	
	Cost of 10 sqm				368.32	
	Cost of 1 sqm				36.83	

Assistant Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

COST COMPARISION BETWEEN DEWATERING DATA RATES AND KUWSDB SOR

Sr No	Road Name	Descriptions	Unit	Qty	Rate	Amount	Remarks
1	Old port and Kandathpalli west	Excavation 0 to 2m	Cum	3288.72	62.00	203,901	KUWSDB Pg No.15,SI No.4
2	Road	Excavation 2 to 4m	Cum	969.61	89.00	86,295	KUWSDB Pg No.15,SI No.5
						290,196	
1	Old port and Kandathpalli west Road	Dewatering Cost	Day	30.00	4218.20	126,546	As per Data Rate
						126,546	
		DIFF	ERENCE IN (COST		163,650	

Earthwork Excavation by Mechanical Means Earthwork in excavation for pipeline trenches beyond 600mm and 1500mm trench width as per drawing and technical specification,including setting out,construction of shoring,strutting,barricading,danger lighting,bracing,using sight rails and boning rods at every 100 meters wherever neccessary as directed,removal of slumps and other deleterious matter,dressing of sides and levelling the bottom of trench to the extent required,utilising the available excavated earth locally for the work etc.,complete in the following strata. KUWSDB SR 15-16,SI No Vii 3,Pg No 11							
a) - do - In ordinary/All soils/Hard soil (upto 3 m)	Cum	4542.83	107.52	488,446			
b) -do- In Ordinary Rock (not requiring blasting)	Cum	688.551	146.72	101,024			
c) -do- In Hard Rock (requiring blasting)	Cum	193.929	847.84	164,421			
	15142.78	10599.95	70%	95.2%	10089.71	196	1977583
		4542.834	30%	4.8%	506.303		131132.5
				0.0%	3.934	346	1361.164
	2295.17	1606.619	70%	78.5%	1261.211	442.4	557959.7
Manual Excavation		688.551	30%	21.0%	337.533	495.04	167092.3
				0.5%	7.875	572.32	4507.02
	646.43	452.501	70%	55.7%	252.245	1413.44	356533.2
		193.929	30%	37.3%	168.77	1565.76	264253.3
				7.0%	31.486	1616.16	50886.41