

MANGALURU SMART CITY

MASTER BOQ of REJUVUNATION AND RAINWATER HARVESTING OF GUJJAR KERE LAKE

Sr.No.	Description	Unit	Quantity	Rate	Amount
1	Clearing thin jungle growth (more than 50 percent open space) including bushes upto 300 mm / parthenium and other weeds including burning or disposing off the same as directed etc., complete.WRD 18-19,Sl.No.8.1.1,Pg No.156	Sqm	5750.00	2.09	12,018
2	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground maually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.Specification No. KBS 2.1(a) / 2.3.1KPWD Mangaluru 18-19,Sl.No.2.1,Pg No.6	Cum	1533.99	273.90	4,20,161
3	KSRB 2-2.1 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. including breaking of clods complete as per specification. No. KBS 2.1(a) / 2.3.5KPWD Mangaluru 18-19,Sl.No.2.3,Pg No.6	Cum	357.45	328.90	1,17,567
4	Excavation and removal of silt and silt mixed with sand in slussy condition from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with lead upto 50 m and all lifts.WRD 18-19,Sl.No.8.35,Pg No.162	Cum	9500.00	295.90	28,11,050
5	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	Each	1.00	8192.80	8,193
6	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.53cum 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 machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2KPWD Mangaluru 18-19,Sl.No.4.6,Pg No.13	Cum	48.60	6490.00	3,15,383
7	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications.Specification No. KBS 4.1, 4.2(KPWD 18-19,Sl.No.34.11,Pg No.255	Cum	6.38	6334.90	40,424
8	KSRB 4.2.1 Providing and laying in position reinforced cement concrete of Design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregates @ 0.47cum, with super plasticisers@ 3 liters confirming to IS 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 ems thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications.Specification No. KBS 4.1, 4.6(KPWD 18-19,Sl.No.4.10,Pg No.14)	Cum	94.42	6817.80	6,43,759

Sr .No.	Description	Unit	Quantity	Rate	Amount
9	KSRB 4.2.7 Providing and laying in position reinforced cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with super plasticisers @31ts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintels, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6KPWD Mangaluru 18-19,Sl.No.4.12,Pg.No.14	Cum	66.87	7074.10	4,73,025
10	KSRB 4-6.1 : 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. Specification No. KBS 4.6.2KPWD Mangaluru 18-19,Sl.No.4.28,Pg.No.16	Sqm	663.89	289.30	1,92,063
11	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressomers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2KPWD Mangaluru 18-19,Sl.No.4.34,Pg.No.17	Sqm	18.17	321.20	5,836
12	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2KPWD Mangaluru 18-19,Sl.No.4.32,Pg.No.16	Sqm	652.92	501.60	3,27,505
13	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200mm including cost of all Materials, labour, complete as per specifications. up to 3.50m from Ground level. Specification No. KBS 4.6.2KPWD Mangaluru 18-19,Sl.No.4.30,Pg.No.16	Sqm	135.69	495.00	67,168

Sr .No.	Description	Unit	Quantity	Rate	Amount
14	KSRB 4-9.2 : Providing T.M.T 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, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT bars Fe 500KPWD Mangaluru 18-19,SI.No.4.46.2,Pg No.18	MT	16.23	77860.20	12,63,474
15	Providing and construction laterite size stone masonry including cost and conveyance of all materials curing etc. complete as per specification.I.S.3620/1979 having compressive strength not less then 3.5N/mm2 for saturated dry samples.For super structure in CM 1:6 (Cement 45 kgs/M3) (KPWD 18-19,Page No 384 SI No : 42.5.3)	Cum	51.33	3730.10	1,91,448
16	KSRB 5-15: Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1)2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4(KPWD 18-19,SI.No.5.28)	Sqm	245.36	892.10	2,18,883
17	KSRB 15.3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing complete as per specifications.KPWD Mangaluru 18-19,SI.No.15.22.Pg No.116	Sqm	16.38	248.60	4,072
18	KSRB 15.3-7 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.KPWD Mangaluru 18-19,SI.No.15.16.Pg No.116	Sqm	792.46	288.20	2,28,388
19	KSRB 15.3-1 : Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.KPWD Mangaluru 18-19,SI.No.15.10.Pg No.115	Sqm	66.38	225.50	14,968
20	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 thoroughly 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)KPWD Mangaluru 18-19,SI.No.15.53.2.Pg No.120	Sqm	792.46	112.20	88,914
21	KSRB 15.15-1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. (with primer)KPWD Mangaluru 18-19,SI.No.15.51.2.Pg No.119	Sqm	66.38	99.00	6,571

Sr .No.	Description	Unit	Quantity	Rate	Amount
22	Providing and laying Antiskid Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm (Rate Analysis)	Sqm	9.47	934.66	8,851
23	KSRB 14.17-2 : Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No. KBS 14.16,14.17 (Colour glazed tiles 30 x 45 cms 6mm thick with border of size 30x10 cms) KPWD Mangaluru 18-19, Sl.No.14.41,3, Pg No.108	Sqm	43.80	1403.60	61,478
24	KSRB 5-3.3 : 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 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 KPWD Mangaluru 18-19, Sl.No.5.9, Pg No.25	Cum	174.86	7175.30	12,54,693
25	KSRB 15.1-3 : Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. KPWD Mangaluru 18-19, Sl.No.15.4, Pg No.115	Sqm	556.00	155.10	86,235
26	Providing stone pitching on slopes using stones of approved size and packing quarry spalls as per drawing including cost of materials, labour, complete as per specification. MORTH specification No. 2504. KPWD Mangaluru 18-19, Sl.No.42.10, Pg No.385	Cum	31.50	2553.10	80,423
27	KSRRB M400-6.1. Construction of granular 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 Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method. - Close graded granular sub-base material as per 400-1 For Grading- II Material (RA Attached)	Cum	78.75	2640.00	2,07,900
28	KSRRB M600-1. Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @ 160Kgs, with 25mm and down size graded granite/trap/basalt metal coarse aggregate @ 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days, mixed in a batching plant, transported to site, Manually laid and compacting with palte compactor, finishing and curing complete as per MORTH specifications Clause 601 (RA attached)	Cum	150.00	4048.00	6,07,200

Sr .No.	Description	Unit	Quantity	Rate	Amount
29	KSRB 14.6: Providing and laying heavy duty cobble stones 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 complete as per specifications. Specification No. KBSKSRB 14.6-1 : do- heavy duty cobble stones 75mm thick KPWD 18-19 SI No 14.7 Pg No 103	Sqm	3657.63	1225.40	44,82,060
30	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base I binding course including loading of aggregates with F. E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by smooth wheeled, vibratory & tandem rollers to achieve the desired density, but excluding cost of primer I tack coat & including lead, lift and cost of all materials, labour, HOM complete as per specifications. Clause 504 of MORTH V revision do- using 120TPH capacity Asphalt batch mix plant with sensor paver Gr-11 (50 mm to 75 mm) with 3.4% VG-30 Bitumen (KPWD 18-19 SI No 21.11.2 Pg No 159)	Cum	82.84	7577.90	6,27,786
31	Providing and fixing 450mm wide X 600mmX 20mm thk.RIVERWASHED BLACK GRANITE CLADDING on surface of seating as directed by architect(Non SOR Item)	Sqm	348.60	3527.00	12,29,512
32	Providing and Fixing Laterite Stone Cladding 25mm thk (polished) with an adhesive over existing cement palster surface with two coat of polish, including all lead and lifts, scaffolding etc. and complete. (Market rate)	Sqm	143.52	2500.75	3,58,908
33	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1 3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (KPWD 18-19 SI No 5.30 Pg No 27)	Nos	2222.00	463.10	10,29,008
34	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per MORTH specifications section 8. (Pg.No.180, SI No : 24.1 of KPWD 18-19)	Sqm	279.00	88.00	24,552
35	Supply and fixing of door shutters made of rigid PVC extruded hollow section of 20mmx200mm with the wall thickness of 1.0mm +/-0.1 mm equally divided into 4 Nos. with tongue and groove locking arrangements. The shutter frame is made of 58x24mm with the wall thickness of 1.5mm +/- 0.15mm section metricut and joined at 4 corners with 125mmx225mm plastic brackets. The shutter shall be horizontally reinforced with 2nos of 8mm PVC rods. Teak wood battons shall be reinforced inside the door shutter during the fabrication of the door shutter at those points KPWD Mangaluru 18-19, SI.No.9.86, Pg No.61	Sqm	3.78	1963.50	7,422
36	Supply and fixing of door frame made of hollow extruded PVC section having dimension of 40x57mm with the wall thickness of 2mm +/-0.2mm duly reinforced with seasoned wood plank at the hinges side. The door frame top 2 corners shall be metric cut/welded. KPWD Mangaluru 18-19, SI.No.9.88, Pg No.61	Rmt	10.20	275.00	2,805
37	Providing & of Fixed Louvered Ventilator made out of multi chambered uPVC sections with TPv gaskets having isolated drainage and reinforced with Galvanized Iron profiles through out the window. The outer frame having a overall size of 60x55mm with reinforcement of 1 mm thickness and Mullion with overall size of 74x60mm with reinforcement of 1 mm thickness. Ventilator shall be provided with 4.5 mm Pin Head glass, standard hardware, Wall thickness of frame Mullion shall be 2-2.2 mm. KPWD Mangaluru 18-19, SI.No.38.44.2, Pg No 308	Sqm	1.44	3995.20	5,753
38	Door Lock KPWD Mangaluru 18-19, SI.No.386, Pg No.XV	Each	2.00	382.21	764

Sr.No.	Description	Unit	Quantity	Rate	Amount
39	Tower bolts 300mm long KPWD Mangaluru 18-19, Sl.No.407, Pg No.XVI	Each	2.00	111.86	224
40	KSRB 2.6 : Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead upto and lift complete as per specifications specification No. KBS 2.10.2 KPWD Mangaluru 18-19, Sl.No.2.13, Pg No.7	Cum	148.48	2343.00	3,47,893
41	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and grouting of Honey comb, voids, cracks / construction joints with cement slurry (1 kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @ 0.50kg/sqm on the whole surface, KPWD Mangaluru 18-19, Sl.No.10.5.1, Pg No.69	Sqm	16.00	578.60	9,258
42	KSRB 10-3 : Providing and laying integral cement Based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and routing a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS :2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement slurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and leveling of 200-200mm concrete	Sqm	16.38	1112.10	18,216
43	Providing and fixing stainless steel 304 grade for staircase railings, balconies, ramps, with hand rail, 50mm dia 16 gauge hollow pipe welded to vertical hollow 50mm dia pipe of 16 gauge, stainless steel vertical pipe spaced at 1.20m regular intervals and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of and electrical charges, etc., complete as per specifications. (KPWD 18-19, Sl.No.7.38, Pg.No.45)	Sqm	369.00	6597.80	24,34,588
44	Supply and installation of Cast Iron Tree Grate Size 2000mm x 2000mm, Inner Dia 750mm, and Frame Depth 15mm, of any Colour complete as per architectural requirement. (Market Rate)	Nos	20.00	16000.00	3,20,000
45	Supply and Installation of SS Bench – KAZE,, Material: Stainless Steel, Grade: SS 304, Finish Type: Matt/Mirror, Size(L,D, H): 1800mm, 564mm, 2400mm (Market Rate)	Nos	10.00	28000.00	2,80,000
46	Providing and Fixing SS 304 Outdoor Dustbin (Pivoted Type and Mounted on SS Poles) of 55 liters capacity all complete to the satisfaction of the Engineer in charge. (EOI)	Nos	10.00	7500.00	75,000

Sr .No.	Description	Unit	Quantity	Rate	Amount
47	P/F FRP Recess Cover (2.5T) 600mmx450 mm with frame at raised footpath on SWD.(Market Rate)	Nos	13.00	5276.57	68,595
48	Direction and Place Identification Signs with size more than 0.9 sqm Size Board:Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing (KPWD 18-19.SI.No.24.4.Pg.No.180)	Sqm	5.04	7926.60	39,950
49	Disposing off the excavated earth of all types upto a distance mentioned below by vehicle including loading and unloading with all lifts,Labour HOM of machinery etc complete.Upto 1 Km(BWSSB 16-17.SI.No.7.Pg.No.10)	Cum	567.43	121.00	68,660
50	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. No. KBS 2.9KPWD Mangaluru 18-19.SI.No.2.10.Pg.No.7	Cum	1324.01	221.10	2,92,739
51	Providing and Displaying Bougainvillea named variety, Sobhra, Thima, Marry palmar, Cherry Blossom etc. well developed with fresh & healthy bushy in full bloom 75 to 90 cm ht. in 40 cm Cement Pot as per direction of the officer-in-charge.(DSR Horticulture 2018.SI.No.5.12.Pg.No.143)	Each	5.00	322.90	1,615
52	Providing and stacking of Hamelia patens (Dwarf) of height 30-45 cm. with 3-4 branches in earthen pots of size 20 cm as per direction of the officer-in-charge.(DSR Horticulture 2018.SI.No.8.34.Pg.No.177)	Each	4.00	40.00	160
53	Providing and stacking of Plumbago capensis well developed with fresh and healthy 30 to 45 cm ht., with bloom in 20 cm Earthen Pot/Plastic Pot as per direction of the officer-in-charge.(DSR Horticulture 2018,SI.No.8.55,Pg.No.179)	Each	6.00	60.00	360
54	Providing and stacking of Tabernaemontana coronaria (Chandni single) veriegated of height 105-120 cm., multibranching, bushy in big size HDPE bag as per direction of the officer-in-charge.(DSR Horticulture 2018.SI.No.8.63.Pg.No.181)	Each	4.00	110.00	440
55	Providing and stacking of Duranta Golden, having ht.15 to 20 cm bushy shape with fresh and healthy leaves in 15 cm size of Earthen Pot/Plastic Pot & as per direction of the officer-in-charge.(DSR Horticulture 2018,SI.No.6.12,Pg.No.153)	Each	4.00	21.55	86
56	Providing and stacking of Schleicheria trijuga (Kusum) of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.(DSR Horticulture 2018.SI.No.7.81.Pg.No.167)	Each	3.00	70.00	210
57	Providing and stacking of Delonix regia (Gulmohar) of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.v(DSR Horticulture 2018.SI.No.7.24.Pg.No.161)	Each	10.00	60.00	600
58	KSRRB M300-9. Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year complete as per specifications.(KPWD 18-19.SI.No.19.88.Pg.No.149)	Each	13.00	1155.00	15,015
59	KSRB 24-9 : Cleaning and washing of stone masonry wall surface with nitric acid including cost of materials, labour, complete as per specifications.Specification No. KBS(KPWD 18-19.SI.No.16.4.Pg.No.130)	Sqm	1389.99	5.50	7,645

Sr .No.	Description	Unit	Quantity	Rate	Amount
60	KSRB 24-41 • Dubbing out on old irregular walls average 10mm thick and making good the surface with cement mortar 1:4 including curing cost of materials, labour, complete as per specifications.Specification No.KBS 24.2.1(KPWD 18-19,SI.No.16.36.1,Pg.No.133)	Sqm	556.00	170.50	94,797
61	Providing and laying Rubber Flooring in 500 x 500mm sizes & (15mm thickness of approved make, in all colours & shade including curing cost of materials, labour, complete as per specifications.(Market Rate)	Sqm	200.00	1237.40	2,47,480
62	KSRRB M300-5. Turfing lawns with fine grassing including ploughing, dressing including breaking of clods, removal of rubbish, dressing and supplying doobs grass roots at 10 em apart, including supplying and spreading offarm yard manure at rate of 0.6 cum per 100 sqm complete as per specifications. MORTH Specification No. 307 KSRRB M300- Maintenance of lawns with fine grassing for the first year(KPWD 18-19,SI.No.19.82,Pg.No.149)	Sqm	790.45	25.30	19,998
63	Providing and laying artline grass pavers or equivqlent block making machine with strong vibratory compaction,of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge (Non SOR)	Sqm	70.92	2067.00	1,46,585
64	KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 5.00Km and complete as per specifications.MORTH specification No.301(KPWD 18-19,SI No : 19.14)	Cum	487.50	45.10	21,986
65	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Section 3.(KPWD 18-19,SI No.19.64)	Sqm	975.00	6.60	6,435
66	KSRRB 400 Granular Sub-Base with Coarse Graded Material (table 400-1) KSRRB M400-7. Construction of granular sub-base by providing Coarse graded crushed stone aggregates of granite / trap / basalt material, speading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MORTH specifications clause 401 and Table 400-1 Grading VI / (SI No 20.4 of KPWD SR 2018-19)	Cum	146.25	2382.60	3,48,455
67	KSSRRB M600-2.Construction of unreinforced,dowel jointed,plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per MORTH specifications Clause 602.with M40 @420Kg per cum Cement,C.A,0.67 cum F.A.044Cum(SI No : 22.2.2 of KPWD 18-19)	Cum	224.25	6341.50	14,22,081
68	Providing and placing joint sealant compound of cold polysulphide in the grooves after widening the groove to required width, sand blasting the groove face if recommended by the sealant manufacturer, cleaning the groove with air compressor, insertion of debonding strip, priming the sides of the sealant if the sealant manufacturer recommends and pouring the sealant all complete including material, manpower and as shown on drawing and as per MORTH specifications clause 602 (Non SOR Item)	Each	279.50	115.00	32,143

Sr .No.	Description	Unit	Quantity	Rate	Amount
69	Supply and Fixing Outdoor Gym Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) PARALLEL BARS	Each	1.00	31918.76	31,919
70	Supply and Fixing Outdoor Gym Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) KNEE CHAIR	Each	1.00	36304.82	36,305
71	Supply and Fixing Outdoor Gym Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) CYCLE	Each	1.00	39618.74	39,619
72	Supply and Fixing Outdoor Gym Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) HEALTH WALKER	Each	1.00	41860.50	41,861
73	Supply and Fixing Outdoor Gym Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) MINI SKI	Each	1.00	43556.44	43,556
74	Supply and Fixing Outdoor Gym Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) HORSE RIDER	Each	1.00	35376.93	35,377
75	Supply and Fixing Outdoor Gym Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) DUAL SKY STEPPER	Each	1.00	64321.03	64,321
76	Supply and Fixing Outdoor Gym Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) BIG TURNING WHEEL	Each	1.00	33692.68	33,693
77	Supply and Fixing Outdoor Gym Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) TRIPLE TWISTER	Each	1.00	40367.29	40,367

Sr .No.	Description	Unit	Quantity	Rate	Amount
78	Supply and Fixing Outdoor Gym Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) POWER PUSH	Each	1.00	78730.70	78,731
79	Supply and Fixing Outdoor Gym Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) LEG PRESS	Each	1.00	74902.15	74,902
80	Supply and Fixing Outdoor Childrens Play Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) Wide Slide	Each	1.00	60193.60	60,194
81	Supply and Fixing Outdoor Childrens Play Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) Double Sea Saw	Each	1.00	33716.80	33,717
82	Supply and Fixing Outdoor Childrens Play Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) Rocking Boat	Each	1.00	29344.32	29,344
83	Supply and Fixing Outdoor Childrens Play Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) Double Swing "A" Type	Each	1.00	40356.16	40,356
84	Supply and Fixing Outdoor Childrens Play Equipments including cost of materials (Foundation), labour, HOM curing complete as per specifications. Note :1. Structural works are done using GI B class pipes & other parts of LLDPE heavy quality materials & painting is done through powder coating process. (Market Rate) Six Seater Merry Go Round	Each	1.00	93372.48	93,372

Sr .No.	Description	Unit	Quantity	Rate	Amount
85	Supply and Installation of Wooden Park Bench (Market Rate)	Each	6.00	29433.92	1,76,604
86	Supply and Installation of Stone Gazebo as per architectural drawing including cost of materials, labour, HOM curing complete (Market Rate)	Each	4.00	301150.00	12,04,600
87	Main LT Panel INCOMER 1 Nos. 40 Amps TPN MCB- BUSBARS SECTIONS 100 amps FP, 25kA, 430volts grade busbar chamber of suitable length with Al busbars. All busbars and interconnections shall be of suitable size Al busbar, current density of bus-bars shall not be more than 0.8 Amps/ sq.mm cross sectional area of Bus Bar. OUTGOING 3Nos of 32A TPN MCB with Atrological timer to control Pole Lighting & Street Lighting	No.	1	54684.00	54,684
88	LT Electrical Cable Supplying, erecting & terminating XLPE armoured cable 3 core 2.5 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	Mtr	300	162.00	48,600
89	Supplying, erecting & terminating XLPE armoured cable 4 core 6 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	Mtr	800	336.00	2,68,800
90	Supplying, erecting & terminating XLPE armoured cable 4 core 10 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	Mtr	200	512.00	1,02,400
91	LT cable laying Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering. Upto 35 sq.mm	RMT	1000	105.00	1,05,000
92	LT Cable Termination Kits Supplying & erecting Siemens type brass cable glands for 2 to 4 core 2.5 sq. mm. /2 to 4 core 4 sq. mm. /2 core 6 sq. mm. for XLPE armoured cable as per specification no. CB-GL	Each	40	51.00	2,040
93	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 6 sq. mm. /2 to 4 core 10 sq. mm. for XLPE armoured cable as per specification No. CB-GL	Each	100	52.00	5,200
94	Supplying & erecting crimping type copper lugs for cable up to 16 sq. mm. complete as per specification no. CB-CL/CU	Each	50	16.00	800
95	Light Fixtures LED Post Top Lantern GARDEN supply of LED Post Top lantern with system.... wattage, housing & frame shall be of powder coated, die cast aluminium, diffuser with high density polyethylene IP65 EPDM gasket. Life 50000 Hrs @ L70 shall be confirming to IS 10322/part 5 Section 5 @ 230V. 5 years Warranty against any manufacturing defect working under standard electrical condition LED Post Top Lantern with 24 watts	Each	35	15930.00	5,57,550
96	LED Indoor Supplying of 2' feet - LED PVC Square Batten .W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition LED light fighting 2' - 14 watts	Each	6	1400.00	8,400

Sr .No.	Description	Unit	Quantity	Rate	Amount
97	LED Indoor Supplying of 4' feet - LED PVC Square Batten .W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition LED light fitting 4' - 28 watts	Each	10	1774.00	17,740
98	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm etc. as required. 25mm	Rmt	300	26.00	7,800
99	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. On wall / ceiling / Rafter / Girders (Page No. Item No. 17.7.1)	Each	16	98.00	1,568
100	Fixing charges of post top/ Gate/ Garden fitting /LED on the existing CI / GI or any other pipe using required size of reducer. wiring using suitable wires.	Each	35	145.00	5,075
101	MCB Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32 Amps DP	Each	6	849.00	5,094
102	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps TPN	Each	1	1547.00	1,547
103	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40-63Amps TPN	Each	1	1936.00	1,936
104	Earthing GI EARTHING Supply, Unloading, Handling, Installation, testing & commissioning of Chemical Earthing, Ashlok (Model - T39) or Galaxy (Model - GAL 503) Length 3000mm, 76-80mm dia electrode outer shell (GI) with 37-40mm dia electrode inner shell (GI) of 80-100 microns galvanized, with highly conducting metallic compound with permanent seal at both the ends, It shall also have provision for connecting 50 x 6 mm. G.I. Flat on two sides. A masonry structure shall be constructed to a depth of 750mm. and with 450 x 450 mm (clear) chamber, and a heavy duty Cast Iron Cover shall be used to cover the pit. Excavation of Hard Rock, Boring, Drilling, back-filling, removal of excess soil/Rock, supply of Back filling compound is included in the scope complete as per technical specifications, drawings, relevant standards & site conditions. (The electrode shall be duly tested & certified by CPRI) Note: 1) All earth pits shall be as per IS 3043 with latest amendments. 2) Earthing stations should contain relevant grade of BFC packed around the earth earth electrode as called for in the item.				
	3) Earthing shall be done at indicted location by the Consultants. The minimum distance between the two earth station shall be 3 meters and that from the building is 2500 mm. 4) An earth ring with relevant earth test terminal boxes shall to be provided at regular intervals. 5) Adequate number of earth strips with proper sized holes shall be provided for extending Earthing/looping earth connections at various floors shall be provided and executed as per the requirement. 6) Rate Quoted shall include the 2Bags of (BFC) Back filling compound as required. 7) Overall Earthing resistance shall be less than 1 ohm. For Distribution Board, electrical equipments etc.	Nos.	4	3672.00	14,688
105	Buried Earthing strip of size 25 x3mm G.I with excavation and buried at 600mm below FGL.	Mtr	500	483.00	2,41,500
106	8 SWG bare G.I. wire	Mtr	250	118.00	29,500

Sr .No.	Description	Unit	Quantity	Rate	Amount
107	Supply and Installation, testing, commissioing of Propeller type wall mounted fan with louver, cowl and bird screen on outside. 100 CFM	Nos	4	3500.00	14,000
108	SANITARYWARE & FITTINGS Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C. P brass hinges, rubber buffers. 10 litre low level, PVC flushing cistern (all are approved make) with fittings, C. I I M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications	Nos.	2	4,956	9,912
109	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 15 mm nominal bore	Nos.	2	419	838
110	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore (For W.C)	Nos.	2	606	1,213
111	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore (For Wash Basin)	Nos.	5	606	3,031
112	Providing and fixing Hand shower (health faucet) with 8mm dia. 1m long flexible tube having wall hook with approved make including necessary sockets/ union nut etc. complete as directed by Engineer incharge	Nos.	2	1,677	3,354
113	Providing and fixing white vitreous china clay, flat back wash basin size 550x400mm with a pair of 15mm C.P brass pillar taps with C.I I M .S brackets, 32 mm C. P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. do-- of size 550 x 400mm	Nos.	2	3,879	7,758
114	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge	Nos.	2	883	1,766
115	Providing and fixing C.P. brass Toilet Paper holder With Cover, cutting and making good the walls complete wherever required.	Nos.	2	584	1,168
116	Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.1/ M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floorwherever required, including cost of materials, labour complete as per specifications	Unit	2	3,072	6,144
117	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms	Unit	4	100	399
118	Providing and fixing 600x2000mm bevel Lead edge mirror of superior glass with 6mm hard board backing and fixed to wooden cleats with C.P screws, washers, including cost of materials. labour complete as per specifications.	Unit	2	3,850	7,700
119	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Nos.	3	159	476
120	Providing and fixing 10 cm PVC nahani trap with grating etc. complete.	each	2	421	842

Sr .No.	Description	Unit	Quantity	Rate	Amount
121	INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chlorinated Poly-Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete as per specifications.. (Concealed work including cutting chases and good the walls etc.) 15mm nominal OD pipes	mtrs.	18	130	2,340
122	INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chlorinated Poly-Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete as per specifications.. (Concealed work including cutting chases and good the walls etc.) 20mm nominal OD pipes	mtrs.	15	157	2,355
123	INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chlorinated Poly-Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete as per specifications.. (Concealed work including cutting chases and good the walls etc.) 25mm nominal OD pipes	mtrs.	25	196	4,900
124	INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chlorinated Poly-Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete as per specifications.. (Concealed work including cutting chases and good the walls etc.) 40mm nominal OD pipes	mtrs.	10	337	3,370
125	Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications. do- 25 mm Dia Ball Valve (Screwed end)	m	3	513	1,539
126	Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications. do- 40 mm Dia Ball Valve (Screwed end)	m	1	620	620
127	Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications. do- 50 mm Dia Ball Valve (Screwed end)	m	1	780	780
128	Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of low density polythylar and built corrugation including of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow of all tanks capacity above 1000 to 20,000 litres Capacity- 5000 ltr	Unit	1	50,000	50,000

Sr .No.	Description	Unit	Quantity	Rate	Amount
129	Providing and Construction of catch basin of size mentioned below (as clear internal dimension) with 150mm thk M30 grade including earth excavation, 75mm thick bed concrete 1:2:4 (1 cement : 2 fine sand: 4 graded stone aggregate 20 mm nominal size) and 230mm thick soiling, backfilling, etc. complete including disposal of surplus earth complete as per standard design, detail drawings, specifications and as directed by engineer in charge. Supplying and Fixing of heavy duty CI frame and cover conforming to IS:1726 as per drawing on top surface flushed to the finished ground level including necessary excavation, back filling the selected excavated earth with all leads and lifts etc,as per IS., complete. 450mm x 450mm (with CI frame and cover)	Each	3	30,983	92,949
130	Providing and Construction of catch basin of size mentioned below (as clear internal dimension) with 150mm thk M30 grade including earth excavation, 75mm thick bed concrete 1:2:4 (1 cement : 2 fine sand: 4 graded stone aggregate 20 mm nominal size) and 230mm thick soiling, backfilling, etc. complete including disposal of surplus earth complete as per standard design, detail drawings, specifications and as directed by engineer in charge. Supplying and Fixing of heavy duty CI frame and cover conforming to IS:1726 as per drawing on top surface flushed to the finished ground level including necessary excavation, back filling the selected excavated earth with all leads and lifts etc,as per IS., complete. 900mm x 450mm (with CI frame and cover)	Each	2	49,575	99,150
131	Providing and fixing water meter with stop cock, jam nut, socket in G.I. pipe line including cutting and threading the pipe and making long screws including cost of all materials, labour, HOM of equipments and testing complete as per specifications.	Nos	1	1,320	1,320
132	EXTERNAL DRAINAGE SYSTEM Providing , laying and fixing ,jointing Eco- drain SN 8 Nu- Drain Upvc pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete 110 mm	m	15	300	4,500
133	EXTERNAL DRAINAGE SYSTEM Providing , laying and fixing ,jointing Eco- drain SN 8 Nu- Drain Upvc pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete 160 mm	m	22	469	10,318
134	INTERNAL DRAINAGE SYSTEM Providing, laying and fixing P.V.C. pipe of 40mm dia. with fittings suchas bends, tees, reducers, clamps, etc. including necessary excavation,trench filling etc. complete. Including removing existing pipe line ifnecessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	m	12	248	2,976
135	INTERNAL DRAINAGE SYSTEM Providing, laying and fixing P.V.C. pipe of 75mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation,trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or asdirected etc. complete.	m	32	328	10,496
136	INTERNAL DRAINAGE SYSTEM Providing, laying and fixing P.V.C. pipe of 110 mm. dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	m	30	454	13,620
137	Supplying & Fixing in position 100 mm dia UPVC Multi traps of self cleaning design including 125 mm dia brass C.P. grating, jointing, embedding in concrete etc. complete. Rate to include making of opening in floor, marble / tiles, for fixing C.P gratings. extension connector as required. complete.	Nos	4	820	3,280

Sr .No.	Description	Unit	Quantity	Rate	Amount
138	Providing and fixing upvc Clean out plug with suitable inlet key for opening male threaded joint with socket including cement solvent to upvc pipes complete as required. 75 mm dia	Nos	3	1,200	3,600
139	Providing and fixing upvc Clean out plug with suitable inlet key for opening male threaded joint with socket including cement solvent to upvc pipes complete as required. 100 mm dia	Nos	2	1,450	2,900
140	Providing and fixing 300*300 mm salt glazed stoneware gully trap in cement concrete 1:4:8 outside the building including cast iron grating in the sink, connecting glazed stoneware pipe, brick masonry chamberwith cast iron lid and cast iron grating for the gully trap.	each	4	3,200	12,800
141	GI pipe as par IS/1239 ISI MARKED C Class (heavy) 25 mm	m	8	171	1,368
142	GI pipe as par IS/1239 ISI MARKED C Class (heavy) 32 mm	m	9	215	1,935
143	GI pipe as par IS/1239 ISI MARKED C Class (heavy) 40 mm	m	12	250	3,000
144	GI pipe as par IS/1239 ISI MARKED C Class (heavy) 50 mm	m	30	310	9,300
	GRAND TOTAL				2,78,84,211

**Assistant Engineer
MSCL Mangaluru**

**Assistant Executive Engineer
MSCL Mangaluru**

**Executive Engineer
MSCL Mangaluru**

**G M Technical
MSCL Mangaluru**