## UPGRADATION OF INTEGRATED ASSETS MANAGEMENT AND URBAN PROPERTY OWNERSHIP RECORD BUILDING

**Grand Summary** 

Sr. No.	Description	Cost In INR
1	Civil Work	3,15,74,240
2	UG Tank Civil Work	4,36,164
3	Landscaping Work	2,99,838
4	Electrical Work	29,45,636
5	Fire Alarm System	2,95,882
6	Public Address System	75,254
7	Fire Fighting Work	23,940
8	Plumbing Work	7,27,049
9	HVAC Work	9,53,093
	Construction Cost Sub Total	3,73,31,096
	GST @ 12% on Construction Cost(Electrical Cost Excluded)	41,26,255
	Electrical Work O and M ( 2 Years)	68,325
	Fire Fighting Work O and M (2 Years)	18,000
	Plumbing Work O and M (2 Years)	48,000
	HVAC Work O and M Cost ( 2 Years)	75,000
	GST @12% on O and M Cost (Excluding Electrical Cost)	16,920
	Escalation and Tender Premium @10%	37,33,110
	Add 3% Contengency	11,19,933
	Miscellaneous and Rounding off	63,361
	Grand Total	4,66,00,000

EXECUTIVE ENGINEER MSCL MANGALURU

GENERAL MANAGER TECHNICAL MSCL MANGALURU

## **MSCL MANGALURU**

	MASTER BOQ of URBAN								
Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks			
1.00	KSRRB M200-11.1. Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removalof stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications and as directed by engineer in charge.  II. By Mechanical Means: A. In area of light jungle.  MORTH Specification No. 201  (KPWD 18-19,SI.No.18.15)	На	1.22	20378.60	24,862				
2.00	KSRRB M200-12.1. <b>Dismantling of existing structures</b> 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 and as directed by engineer in charge.  i) Lime /Cement Concrete. I. By Manual Means: A. Lime Concrete, cement concrete grade M-10 and below.  MORTH Specification No. 202 (KPWD 18-19,SI.No.18.17)	Cum	10.00	499.40	4,994				
3.00	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications and as directed by engineer in charge. iii) Dismantling Stone Masonry. MORTH Specification No. 202 KSRRB M200- 15.2. do- B. Rubble stone masonry in cement mortar. (KPWD 18-19,SI.No.18.27)	Cum	50	386.1	19,305				
4.00	KSRRB M200-32. Removal of Telephone /Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and stacking the serviceable and unserviceable material separatelycomplete as per specifications.  MORTH Specification No. 202 (KPWD 18-19,SI.No.18.57)	Nos	5.00	238.70	1,194				
5.00	KSRRB M200-14.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications and as directed by engineer in charge.  KSRRB M200-14.2. do- Dismantling brick/Tile work B. In cement mortar. (KPWD 18-19,SI.No.18.23)	Cum	5.00	386.10	1,931				
6.00	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iKSRRB M200-17.1. do- v) Steel work in all types of Sections upto a Height of 5 m above plinth level excluding Cutting of Rivet A. Including dismembering." (KPWD 18-19,Pg.No.140,SI.No.18.33)	МТ	13.00	2082.30	27,070				
7.00	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking as directed by Engineer in charge with all leads and lifts. Of area 3 sq. metres and below (CPWD 2018 15.12.1)	Nos.	4.00	274.50	1,098				
8.00	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance 10km (within average thickness of 15 ems). including cost of materials, labour, HOM complete as per specifications.  (KPWD 18-19,SI.No.37.51)	Sqm	50.00	94.60	4,730				

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
9.00	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material as directed by engineer in charge with all leads and lifts. 15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)	Sqm	280.00	121.90	34,132	
10.00	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA attached)	Sqm	1792.00	74.98	1,34,364	
11.00	Earth work excavation for foundation of structures upto 3 mtrs. by mechanical means as per drawing and technical specification, including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilising I transporting the remaining earth upto 1.00km lead. including cost of labour, materials and HOM etc., complete. do-In all types of soils (KPWD 18-19,SI No.2.23.1,Pg.No.8)	Cum	1473.94	57.20	84,309	
12.00	Earth work excavation for foundation of structures upto 3 mtrs. by mechanical means as per drawing and technical specification, including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilising I transporting the remaining earth upto 1.00km lead. including cost of labour, materials and HOM etc., complete.do- Soft rock/ordinary rock (without blasting) (KPWD 18-19,SI No.2.23.2,Pg.No.8)	Cum	178.08	73.70	13,124	
13.00	Earthwork in excavation for foundation of structures by Mechanical means as per drawing and technical specification including setting out construction of shoring, strutting, barricading, danger light, bracing, removal of slumps and other deterious 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. (Depth upto 3m).  Hard Rock-Any rock Excavation by using mechanical plants/machinary (KUWSDB 18-19,SI.No.vii.1c,Pg.No.7)	Cum	93.75	744.70	69,814	
14.00	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 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)	Cum	629.80	221.10	1,39,249	
15.00	Providing Muram/Gravel Bedding for the pipeline trenches/ at Plith below grade slab,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 18-19, Pg No.9,SI No.6.2		53.61	284.90	15,272	
16.00	KSRB 2.8: <b>Providing and Filling in foundation with granite</b> / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS (KPWD 18-19,SI.No.2.15,Pg.No.7)	Cum	143.80	2795.10	4,01,944	
17.00	KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 5.00Km and complete as per specifications.  MORTH specification No.301(Including transporting charges, loading and unloading for lead 5km)  (Page No 143,SI No : 19.14)	Cum	1195.60	45.10	53,922	
18.00	KSRRB M300-55. <b>Construction of sub-grade</b> transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications, including cost of earth, watering charges & compaction by vibratory roller to 97% of modified proctors density) MORTH Specification No. 305 (KPWD 18-19,SI.No.19.62,Pg.No.147)		610.00	620.62	3,78,578	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
19.00	KSRRB M400-6.2. Construction of granular sub base by providing close graded crushed stone aggregate of granite/trap/basalit material, spreading in uniform layers with motor on prepared surface, mixing by mix in place methode by rotavator at OMC, and compacting with vibratory power roller to achieve the desired density, complete as per specification. B.By Mix in Place Methode. Close graded granular sub base material as per 400-1 For Grading II material (Page No 155, SI No : 20.5.2)	Cum	183.00	2382.60	4,36,016	
20.00	KSRRB M600-1.Construction of <b>dry lean cement concrete</b> mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications.Morth specification No.601 (SI No: 22.1.1 of KPWD 18-19)	Cum	122.00	4452.80	5,43,242	
21.00	KSSRRB M600-2.Construction of unreinforced,dowel jointed, plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site,laid with a fixed form or slip form paver spread,compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints,including groove cutting chrges, joints filler,separation memberane, sealent primer, joints sealant, debonding strip, dowel bars at 4.5m intervals, tie rod, admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per sprcifications MORTH specification No.602.do with M40 (420Kg per cum Cement,C.A,0.67 cum F.A.044Cum (Page No 176,SI No : 22.2.2)	Cum	280.60	6341.50	17,79,425	
22.00	Providin and fixing <b>pre cast solid concrete Kerb stones</b> made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively,400mm high and 450mm in length finished with CM 1:3 Plastering and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3)	Rmt	1300.00	463.10	6,02,030	
23.00	KSRRB 800-1. <b>Painting two coats</b> after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per MORTH specifications section 8. (SI No : 24.1 of KPWD 18-19)	Sqm	474.50	88.00	41,756	
24.00	KSRRB M800-29.3. Cable Duct Across the road KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings complete as per specifications. Case-III: Triple row for three utility services. ( PWD SR 2018-19,SI.No.24.36)	Rmt	45.00	5524.20	2,48,589	
25.00	KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material (RA Attached)	Cum	337.71	2640.00	8,91,554	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
26.00	KSRB 4-1.6; Providing and laying in position <b>plain cement concrete</b> of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (KPWD 18-19,SI No.4.6.2,Pg.No.13)	Cum	159.93	6490.00	10,37,913	
27.00	KSRB-3.2: Providing and injecting chemical emulsion for Pre-constructional <b>Anti-Termite Treatment</b> , creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration at 3.19 Litre/sqm., including cost of chemical, diluting in water to one percent concentration, labour, HOM complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KBS: 3.2.6 I 3.2.7 (KPWD 18-19,S.I. No.3.2)	Sqm	234.69	115.50	27,106	
28.00	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 aggregtes @ 0.47cum, with super plasticisers@ 3 liters confirming to IS 9103-1999 reafirmed-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,SI No.4.10,Pg.No.14)	Cum	181.92	6817.80	12,40,286	
29.00	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 confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 ems 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, lintles, 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, 4.6 (KPWD 18-19,Sl.No.4.12,Pg No.14)	Cum	61.08	7074.10	4,32,109	
30.00	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 aggregtes @ 0.47cum, with super plasticisers @31ts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 ems 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, lintles, 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, 4.6 (KPWD 18-19,SI.No.4.12,Pg No.14) First Floor Beam,Column,Slab	Cum	43.60	7140.10	3,11,309	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
31.00	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 aggregtes @ 0.47cum, with super plasticisers @31ts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 ems 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, lintles, 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, 4.6 (KPWD 18-19,SI.No.4.12,Pg No.14) Second Floor Beam and Column	Cum	91.46	7206.10	6,59,060	
32.00	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 aggregtes @ 0.47cum, with super plasticisers @31ts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 ems 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, lintles, 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, 4.6 (KPWD 18-19,SI.No.4.12,Pg No.14)	Cum	61.16	7272.10	4,44,793	
33.00	Providing and laying M25 grade RCC jacketing work around the existing column including chipping of existing column, applying epoxy as a bonding agent between old concrete and new concrete and required shuttering work, curing, including cost of all material and labour etc.  Complete.(Note:Reinforcementsteel will be pais separetaly) (RA Attached)	Cum	15.11	15658.05	2,36,655	
34.00	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for <b>foundations</b> , <b>footings</b> , bases of columns for mass concrete including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.28,Pg No.16)	Sqm	1235.96	289.30	3,57,563	
35.00	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, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.34,Pg No.17) Plinth Beam,First,Second & Third Floor Beam	Sqm	1017.24	321.20	3,26,737	
36.00	KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for columns, pillars, post and struts, square I rectangular/ polygon in plan including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.32,Pg.No.16) Foundation to Plinth and Plinth to First Floor,First Floor to Second Floor & Second Floor to Roof	Sqm	669.92	501.60	3,36,034	
37.00	KSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal of formworkfor suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications.  Specifications No. KBS 4.6.2. do 0 to 5 mts (KPWD 18-19,SI.No.4.29.2,Pg.No.16)  First Floor Slab,Second Floor Slab & Third Floor	Sqm	412.54	448.80	1,85,146	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
38.00	KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.38,Pg.No.17) Second Floor	Sqm	22.87	617.10	14,115	
39.00	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chajja, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.37,Pg.No.17) Second Floor	Sqm	60.06	361.90	21,736	
40.00	KSRB 4-6.4: 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. Specification No. KBS 4.6.2	Sqm	272.88	397.10	1,08,361	
41.00	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 I 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 complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500 (KPWD 18-19,SI.No.4.46.2,Pg No.18) Ground Floor	МТ	26.07	77860.20	20,29,845	
42.00	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 I 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 complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500 (KPWD 18-19,SI.No.4.46.2,Pg No.18) First Floor	МТ	5.21	78681.90	4,10,281	
43.00	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 I 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 complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500 (KPWD 18-19,SI.No.4.46.2,Pg No.18)	МТ	9.32	79503.60	7,41,197	
44.00	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 I 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 complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500 (KPWD 18-19,SI.No.4.46.2,Pg No.18) Third Floor	MT	6.40	80325.30	5,14,367	
45.00	Providing fusion bonded epoxy coating not less than 175 microns thickness and upto 300 microns to reinforcement of all diameters as per IS: 13620-1993 including testing of coating at plant The rate isinclusive of cost on account of careful handling, PVC coated binding wire instead of GI Binding wire, touch up material supplied by coating agency, repair work, loading, unloading and straightening of bent rods etc., complete as per specification and as directed by the Engineer in charge.  do For 10mm to 16mm dia bars  (KPWD 18-19,SI.No.7.21.1,Pg.No.40)	МТ	47.01	11588.50	5,44,789	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
46.00	Structural steel work riveted, bolted or welded in built up sections,trusses and framed work, including cutting, hoisting, fixing in position and applying,priming coat of approved steel primer all complete.  (CPWD 2018,SI.No.10.2,Pg.No.183)	MT	2.24	101750.00	2,27,920	
47.00	Refixing the existing Structural steel (Roof Truss) work riveted, bolted or welded in built up sections, trusses andframed work, including cutting, hoisting, fixing in position and applying a primingcoat of approved steel primer all complete	Kg	7280.00	20.40	1,48,512	
48.00	Fixing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	270.00	188.00	50,760	
49.00	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.  1.00 mm thick with zinc coating not less than 275 gm/m²	Sqm	88.00	1234.25	1,08,614	
50.00	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. KBS  KSRB 14.6-1: do-heavy duty cobble stones 60mm thick  (KPWD 18-19,SI.No.14.6,Pg.No.103)	Sqm	1078.40	1161.60	12,52,669	
51.00	Providing and laying <b>eco-loc permeable pavers,80mm or equivalent</b> 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.	Sqm	1173.00	2073.00	24,31,629	
52.00	Providing and fixing 15cm wide,45cm overall <b>semi circular plain GS Sheet gutter</b> with iron brackets 40 x 3mm size,bolts,nuts and washers etc, including making necessary connections with rain water pipes complete, 0.8mm thick with zinc coating not less than 275gm/m2 (CPWD 2018,SI.No.12.7.1,Pg.No.211)	Rm	40.00	765.00	30,600	
53.00	Providing and fixing unplasticised <b>PVC pipes</b> with working pressure 10 kg/sq.cm with pipe fittings, clips, making good the floor, including cost of all materials, labour charges, HOM and testing complete as per specifications. do- with 160mm outer dia KPWD 18-19,SI.No.11.56.4,Pg.No.77	Rm	137.50	1377.20	1,89,365	
54.00	Providing and constructing 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 3.5 N/mm2 for saturated dry samples.  For basement in CM 1:6 (Cement 45 kgs/M3) (KPWD 2018-19,42.5.1)  Plinth Masonary	Cum	119.83	3,499.10	4,19,297	
55.00	Providing and constructing 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 3.5 N/mm2 for saturated dry samples.  For basement in CM 1:6 (Cement 45 kgs/M3) (KPWD 2018-19,42.5.1)  For super structure in CM 1:6 (Cement 45 kgs/M3)-Ground Floor (KPWD 2018-19,42.5.3)	Cum	125.25	3,730.10	4,67,195	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
56.00	Providing and constructing 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 3.5 N/mm2 for saturated dry samples.  For basement in CM 1:6 (Cement 45 kgs/M3) (KPWD 2018-19,42.5.1)  For super structure in CM 1:6 (Cement 45 kgs/M3)-  First Floor (KPWD 2018-19,42.5.3)	Cum	4.14	4,073.30	16,863	
57.00	Providing and constructing 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 3.5 N/mm2 for saturated dry samples.  For basement in CM 1:6 (Cement 45 kgs/M3) (KPWD 2018-19,42.5.1)  For super structure in CM 1:6 (Cement 45 kgs/M3)-Second Floor (KPWD 2018-19,42.5.3)	Cum	71.15	4,416.50	3,14,246	
58.00	Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete) Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications.  with 600x200x150mm size Blocks Ground Floor (KPWD 18-19,SI.No.6.32.2,Pg.No.31)	Sqm	8.94	1,504.00	13,446	
59.00	Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete) Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications.  with 600x200x150mm size Blocks First Floor (KPWD 18-19,SI.No.6.32.2,Pg.No.31)	Sqm	19.28	1 661.00	32,024	
60.00	Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete) Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications.  with 600x200x150mm size Blocks Second Floor (KPWD 18-19,SI.No.6.32.2,Pg.No.31)	Sqm	14.56	1 667.60	24,280	
61.00	Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete) Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications.  with 600x200x150mm size Blocks Third Floor (KPWD 18-19,SI.No.6.32.2,Pg.No.31)	Sqm	3.62	1 674.20	6,061	
62.00	Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete) Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications.  with 600x200x230mm size Blocks Ground Floor (KPWD 18-19,SI.No.6.32.4,Pg.No.31)	Sqm	13.07	2 066.00	27,003	
63.00	Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete) Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications.  with 600x200x230mm size Blocks First Floor (KPWD 18-19,SI.No.6.32.4,Pg.No.31)	Sqm	21.72	2 279.20	49,504	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
64.00	Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete) Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. with 600x200x230mm size Blocks Second Floor (KPWD 18-19,SI.No.6.32.4,Pg.No.31)	Sqm	59.67	2 285.80	1,36,394	
65.00	Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete) Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications.  with 600x200x230mm size Blocks Third Floor (KPWD 18-19,SI.No.6.32.4,Pg.No.31)	Sqm	32.58	2 292.40	74,686	
66.00	KSRB15-3: Providing 15mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required srnooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. do- cement mortar 1:4 (KPWD 18-19,SI.No.15.13,Pg.No.115)i) Ground Floor	Sqm	157.29	244.20	38,409	
67.00	KSRB15-3: Providing 15mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required srnooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. do-cement mortar 1:4 (KPWD 18-19,SI.No.15.13,Pg.No.115) ii) First Floor	Sqm	113.40	250.80	28,441	
68.00	KSRB15-3: Providing 15mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required srnooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. do-cement mortar 1:4 (KPWD 18-19,SI.No.15.13,Pg.No.115)  iii)Second Floor	Sqm	345.28	257.40	88,875	
69.00	KSRB15-3: Providing 15mm thick cement plaster in single coat with cement mortar 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. do-cement mortar 1:4 (KPWD 18-19,SI.No.15.13,Pg.No.115) iv)Third Floor	Sqm	88.56	264.00	23,380	
70.00	KSRB15-5 : Providing rough cement plastering 15mm thick in single coat with cement mortar to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117) i)Ground Floor	Sqm	113.39	213.40	24,197	
71.00	KSRB15-5: Providing rough cement plastering 15mm thick in single coat with cement mortar to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117) ii) First Floor	Sqm	113.39	220.00	24,946	
72.00	KSRB15-5 : Providing rough cement plastering 15mm thick in single coat with cement mortar to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117) iii)Second Floor	Sqm	205.74	226.60	46,621	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
73.00	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification.  (KPWD 18-19,Sl.No.15.106,Pg.No.128) i) Ground Floor	Sqm	117.43	85.80	10,075	
74.00	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification.  (KPWD 18-19,SI.No.15.106,Pg.No.128)  ii) First Floor	Sqm	113.40	92.40	10,478	
75.00	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. (KPWD 18-19,SI.No.15.106,Pg.No.128) iii)Second Floor	Sqm	345.28	99.00	34,183	
76.00	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. (KPWD 18-19,Sl.No.15.106,Pg.No.128) iv)Third Floor	Sqm	88.56	105.60	9,352	
77.00	KSRB15-3: Providing 12mm thick cement plaster in single coat with cement mortar, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification. do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116) Ground Floor	Sqm	101.00	248.60	25,109	
78.00	KSRB15-3 : Providing 12mm thick cement plaster in single coat with cement mortar, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification. do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116) First Floor	Sqm	98.00	255.20	25,010	
79.00	KSRB15-3 : Providing 12mm thick cement plaster in single coat with cement mortar, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification. do- cement mortar 1:4 (KPWD 18-19,Sl.No.15.22,Pg.No.116) Second Floor Ceiling	Sqm	280.00	261.80	73,304	
80.00	KSRB15-3: Providing 18mm thick cement plaster in single coat with cement mortar 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. do - cement mortar 1:4 (KPWD 18-19,Sl.No.15.16,Pg.No.116)	Sqm	1276.32	288.20	3,67,835	
81.00	Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all mateirals, mortar, labour, etc., Complete as per specification.  (KPWD 18-19,SI.No.14.45,Pg.No.109)  Ground Floor	Sqm	48.40	1,240.80	60,055	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
82.00	Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all mateirals, mortar, labour, etc., Complete as per specification.  (KPWD 18-19,SI.No.14.45,Pg.No.109)  First Floor	Sqm	46.48	1,243.00	57,775	
83.00	Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all mateirals, mortar, labour, etc., Complete as per specification.  (KPWD 18-19,SI.No.14.45,Pg.No.109) Second Floor	Sqm	235.35	1,245.20	2,93,058	
84.00	Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all mateirals, mortar, labour, etc , Complete as per specification. (KPWD 18-19,SI.No.14.45,Pg.No.109) Terrace Floor	Sqm	245.85	1,247.40	3,06,673	
85.00	KSRB 14.14-5: Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1 3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108) Ground Floor	Sqm	12.10	1,332.10	16,118	
86.00	KSRB 14.14-5: Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1 3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108) First Floor	Sqm	10.50	1,334.30	14,010	
87.00	KSRB 14.14-5: Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1 3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108) Second Floor	Sqm	10.50	1,336.50	14,033	
88.00	KSRB 14.3 Providing and laying flooring and steps machine cut granite slabs 40mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed, including cost of materials, mortar, labour, curing complete as per specifications.  Specification No. KBS 14.26	Sqm	20.18	2,764.30	55,784	
	Providing and fixing colour glazed tiles of size 300mmx600mm for walls with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing, cleaning including providing and removing scaffolding wherever necessary etc., complete. The work includes cost of all materials, mortar, labour charges for all items of work, hire charges for equipment etc., complete as per specification.  (KPWD 18-19,Sl.No.14.64,Pg.No.112)  Ground Floor	Sqm	113.39	1,334.30	1,51,296	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
90.00	Providing and fixing colour glazed tiles of size 300mmx600mm for walls with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing, cleaning including providing and removing scaffolding wherever necessary etc., complete. The work includes cost of all materials, mortar, labour charges for all items of work, hire charges for equipment etc., complete as per specification.  (KPWD 18-19,Sl.No.14.64,Pg.No.112)  First Floor	Sqm	113.39	1,336.50	1,51,546	
91.00	Providing and fixing colour glazed tiles of size 300mmx600mm for walls with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing, cleaning including providing and removing scaffolding wherever necessary etc., complete. The work includes cost of all materials, mortar, labour charges for all items of work, hire charges for equipment etc., complete as per specification.  (KPWD 18-19,SI.No.14.64,Pg.No.112)  Second Floor	Sqm	113.39	1,338.70	1,51,795	
92.00	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,scaffoldingetc. and complete.	Sqm	72.88	2,500.75	1,82,255	
93.00	Providing and fixing of wall cladding using 20 mm thick gang saw water cut granite in CM 1:3 proportion cut to required shape patron with paper joint finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in JOints including cost of all materials, mortar, labour, curing etc., complete as per specification.  do- with grey granite 20mm thick gang saw with minimum width 1200 mm Ground Floor	Sqm	7.98	2,692.80	21,489	
94.00	Providing and fixing of wall cladding using 20 mm thick gang saw water cut granite in CM 1:3 proportion cut to required shape patron with paper joint finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in JOints including cost of all materials, mortar, labour, curing etc., complete as per specification.  do- with grey granite 20mm thick gang saw with minimum width 1200 mm First Floor	Sqm	7.98	2,694.80	21,505	
95.00	Providing and fixing of wall cladding using 20 mm thick gang saw water cut granite in CM 1:3 proportion cut to required shape patron with paper joint finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in JOints including cost of all materials, mortar, labour, curing etc., complete as per specification.  do- with grey granite 20mm thick gang saw with minimum width 1200 mm Second Floor	Sqm	7.98	2,696.80	21,520	
96.00	Providing and fixing of wall cladding using 20 mm thick gang saw water cut granite in CM 1:3 proportion cut to required shape patron with paper joint finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in JOints including cost of all materials, mortar, labour, curing etc., complete as per specification.  do- with grey granite 20mm thick gang saw with minimum width 1200 mm Third Floor	Sqm	7.98	2,698.80	21,536	
97.00	Providing and laying platform using prepolished, water cut I gang saw 40mm thick telephonic Black Granite. laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in JOints including cost of all materials, mortar, labour, curing etc., complete as per specification. (KPWD 18-19,SI.No.14.52,Pg.No.110) Ground Floor	Sqm	1.43	3,877.50	5,525	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
98.00	Providing and laying platform using prepolished, water cut I gang saw 40mm thick telephonic Black Granite. laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in JOints including cost of all materials, mortar, labour, curing etc., complete as per specification. (KPWD 18-19,SI.No.14.52,Pg.No.110) First Floor	Sqm	2.48	3,879.50	9,631	
99.00	Providing and laying platform using prepolished, water cut I gang saw 40mm thick telephonic Black Granite. laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in JOints including cost of all materials, mortar, labour, curing etc., complete as per specification. (KPWD 18-19,SI.No.14.52,Pg.No.110) Second Floor	Sqm	2.48	3,881.50	9,636	
100.00	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.do- with primer (KPWD 18-19,SI.No.15.51.2,Pg No.119)	Sqm	801.20	99.00	79,319	
101.00	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications. (KPWD 18-19,SI.No.15.103,Pg No.127)	Sqm	2441.56	374.00	9,13,142	
102.00	Providing and fixing food grade epoxy painting to over head tank,under ground tank and sump tank after cleaning and drying including pumping and bailing out of water, including cost of all materials labour lead and lifts etc., complete (KPWD 18-19,SI.No.10.6,Pg.No.69)	Sqm	48.66	96.80	4,710	
103.00	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 grouting a slurry coat of neat cement using 2.75 kglsqm of cement admixed with proprietary water proofing compound conforming to 18:2645 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 18:2645 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 lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick joint less cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications. (KPWD 18-19,Sl.No.10.2,Pg.No.68)	Sqm	260.40	1112.10	2,89,591	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
104.00	Waterproofing of RCC Terrace I podium slab I toilet I utilities I water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks I construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates@ 040 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 silanollinear copolymer@ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic I styrene I butadiene & cement in the ratio of 1:0.1, @ 0.50kglsqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification (KPWD 18-19,SI.No.10.5.1,Pg.No.69)	Sqm	47.55	578.60	27,512	
105.00	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20 mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge.  Using rough Kota stone (CPWD 2019,22.2)	Sqm	43.07	1738.00	74,856	
106.00	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality.HD-20 Circular shape 600 mm internal dia. (CPWD 19,19.19.4.1)	Nos.	1.00	1471.50	1,472	
107.00	Providing M.S. foot rests including fixing in RCC tank with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design : With 20 mm diameter round bar (CPWD 19.15.2)	Cun	9.00	383.70	3,453	
108.00	KSRB 9.4-1: Providing wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM complete as per specifications.  Specification No. KBS 9.33KSRB 9.4-3: -do - Mathi I Nandi wood frames (KPWD 18-19,SI.No.9.12,Pg.No.53)	Cum	0.26	1,12,357.30	28,914	
	KSRB 9.5 : Providing and fixing in position fully panelled wood shutters for doors, with styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM complete as per specifications. (excluding cost of fixtures)  Specification No. KBS 9.34KSRB 9-6.3 :do- MathiiNandi wood styles and rails of 35mm thick (KPWD 18-19,SI.No.9.19,Pg.No.53)  Ground Floor	Sqm	8.82	5,517.60	48,665	
110.00	KSRB 9.5: Providing and fixing in position fully panelled wood shutters for doors, with styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM complete as per specifications. (excluding cost of fixtures)  Specification No. KBS 9.34KSRB 9-6.3:do- MathiiNandi wood styles and rails of 35mm thick (KPWD 18-19,SI.No.9.19,Pg.No.53)  First Floor	Sqm	8.82	5,522.00	48,704	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
111.00	KSRB 9.5 : Providing and fixing in position fully panelled wood shutters for doors, with styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM complete as per specifications. (excluding cost of fixtures)  Specification No. KBS 9.34KSRB 9-6.3 :do- MathiiNandi wood styles and rails of 35mm thick (KPWD 18-19,SI.No.9.19,Pg.No.53)  Second Floor	Sqm	6.30	5,526.40	34,816	
112.00	KSRB 9.5 : Providing and fixing in position fully panelled wood shutters for doors, with styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM complete as per specifications. (excluding cost of fixtures)  Specification No. KBS 9.34KSRB 9-6.3 :do- MathiiNandi wood styles and rails of 35mm thick (KPWD 18-19,SI.No.9.19,Pg.No.53)  Terrace Floor	Sqm	5.04	5,530.80	27,875	
113.00	SOLID PANEL PRELAM PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Prelam Panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for styles and 15x15mm for top & bottom rails, covered with heat moulded Prelaminated PVC C Channel of 5mm thick sheet & 30x50mm wide to form styles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S.frame,Sealed to the styles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm. Aluminium hinges.do- with both side prelam (KPWD 18-19,SI.No.9.85,Pg No.60 & 61) Ground Floor	Sqm	3.78	4,120.60	15,576	
114.00	SOLID PANEL PRELAM PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Prelam Panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for styles and 15x15mm for top & bottom rails, covered with heat moulded Prelaminated PVC C Channel of 5mm thick sheet & 30x50mm wide to form styles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S.frame,Sealed to the styles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm. Aluminium hinges.do- with both side prelam (KPWD 18-19,SI.No.9.85,Pg No.60 & 61) First Floor	Sqm	3.78	4,125.00	15,593	
115.00	SOLID PANEL PRELAM PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Prelam Panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for styles and 15x15mm for top & bottom rails, covered with heat moulded Prelaminated PVC C Channel of 5mm thick sheet & 30x50mm wide to form styles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S.frame,Sealed to the styles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm. Aluminium hinges.do- with both side prelam (KPWD 18-19,SI.No.9.85,Pg No.60 & 61) Second Floor	Sqm	7.56	4,129.40	31,218	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
116.00	Providing and fixing pre fabricated non-monolithic R.C.C. Door Frames factory manufactured in separate parts and assembled at bolt nuts system with mechanical table vibrating as per IS 6523-1983 with using M25 concrete as per IS 456 with a cross section of 60 mm x 100 mm reinforced with 1.70 kg of TMT steel reinforced with 3 Nos. of 6 mm dia Main TMT bars and 6 mm Dia TMT stirrups welded at 40 em c/c in triangle shape per meter length of door frames, including cost of steel and fabrication charges having 3/4 No. Stainless Steel hinges plate attachment made of 165 mm x 25 mm x 2.5 mm Stainless Steel Flat welded with required iron rods and flats with drilling for fixing flat CSK Head Machine screws and nut made out of 304 grade stainless steel screws, nut and MS square nut of size 8 x 8 square and length 10 mm and making necessary provision in concrete for fixing aldrops, tower bolts and hold fasts etc., complete including two coats of oil based enamel primer providing without cill for shutter thickness upto 30 mm, 21 days tank immersed curing including cost of labour, materials, HOM etc., complete excluding the cost of door Fixtures as per the direction of Engineer (KPWD 18-19,SI.No.9.98,Pg.No.63 & 64) Ground Floor	Rmt	9.90	980.10	9,703	
117.00	Providing and fixing pre fabricated non-monolithic R.C.C. Door Frames factory manufactured in separate parts and assembled at bolt nuts system with mechanical table vibrating as per IS 6523-1983 with using M25 concrete as per IS 456 with a cross section of 60 mm x 100 mm reinforced with 1.70 kg of TMT steel reinforced with 3 Nos. of 6 mm dia Main TMT bars and 6 mm Dia TMT stirrups welded at 40 em c/c in triangle shape per meter length of door frames, including cost of steel and fabrication charges having 3/4 No. Stainless Steel hinges plate attachment made of 165 mm x 25 mm x 2.5 mm Stainless Steel Flat welded with required iron rods and flats with drilling for fixing flat CSK Head Machine screws and nut made out of 304 grade stainless steel screws, nut and MS square nut of size 8 x 8 square and length 10 mm and making necessary provision in concrete for fixing aldrops, tower bolts and hold fasts etc., complete including two coats of oil based enamel primer providing without cill for shutter thickness upto 30 mm, 21 days tank immersed curing including cost of labour, materials, HOM etc., complete excluding the cost of door Fixtures as per the direction of Engineer (KPWD 18-19,SI.No.9.98,Pg.No.63 & 64) First Floor	Rmt	9.90	984.50	9,747	
118.00	Providing and fixing pre fabricated non-monolithic R.C.C. Door Frames factory manufactured in separate parts and assembled at bolt nuts system with mechanical table vibrating as per IS 6523-1983 with using M25 concrete as per IS 456 with a cross section of 60 mm x 100 mm reinforced with 1.70 kg of TMT steel reinforced with 3 Nos. of 6 mm dia Main TMT bars and 6 mm Dia TMT stirrups welded at 40 em c/c in triangle shape per meter length of door frames, including cost of steel and fabrication charges having 3/4 No. Stainless Steel hinges plate attachment made of 165 mm x 25 mm x 2.5 mm Stainless Steel Flat welded with required iron rods and flats with drilling for fixing flat CSK Head Machine screws and nut made out of 304 grade stainless steel screws, nut and MS square nut of size 8 x 8 square and length 10 mm and making necessary provision in concrete for fixing aldrops, tower bolts and hold fasts etc., complete including two coats of oil based enamel primer providing without cill for shutter thickness upto 30 mm, 21 days tank immersed curing including cost of labour, materials, HOM etc., complete excluding the cost of door Fixtures as per the direction of Engineer (KPWD 18-19,SI.No.9.98,Pg.No.63 & 64) Second Floor	Rmt	19.80	988.90	19,580	
119.00	Providing and fixing Single shutter glass door of 12mm thick plain toughened glass. The door is fixed by using any approved make hardware fitting like patch fitting, pivot, floor machine, locking arrangements and suitable SS door rails with floral glass etching for 1/3 portion of door area etc complete. The rate includes cost of all materials, labour, hire of tools & machineries, and as per specification.	Sqm	20.16	9,828.50	1,98,143	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
120.00	Providing and fixing of Louvered ventilator made out of multi chambered UPVC (Matching to RAL-9016) sections and with minimum TiO2 (Titanium Dioxide) at 6PHR with TPV (Thermo plastic Vulcanized) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver Clip in Aluminium (Powder Coated in white) will be used on the frame along with plastic parts of fixing the 4mm pin head glass. Wall thickness of frame shall be 2mm. Maximum possible size - 1000mm x 1000mm (KPWD 18-19, SI. No.38.44.2, Pg. No.308)	Sqm	6.75	3,995.20	26,968	
121.00	Providing and fixing 304- grade stainless steel hand rails of 14-gauge pipes for Ramps staircase made out of stainless steel hallow pipes, using 50mm dia for verticals @1.60 mtr c/c fixed to the ramps or steps by drilling with bolts and 100mm dia MS base plates 10mm gauge for fixing of Vertical pipes 4 - Nos anchor bolts & 40mm dia pipes fixed horizontally for 2-rows top, one pipes fixed with vertical pipes another one fixed with elbows and 25mm dia pipes are fixed horizontally for 2-rows below top measure@ equal intervals including cutting, welding, bending wherever necessary with suitable caps @ tops, bottoms & corners finishing with mat I shining etc., complete including cost and conveyance of all materials, labour for all items of work, HOM with all lead and lift, loading and unloading, transportation charges and all other incidental charges etc., complete as per specification and directions of the Engineer-in-charge of the work.  Ramps or Staircase for physically challenged.  (KPWD 18-19,SI.No.7.39,Pg.No.45)	Sqm	19.20	5,910.30	1,13,478	
122.00	Providing and fixing M.S. Hand railing for Balcony/Staircase etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing.	Sqm	38.00	3,124.00	1,18,712	
123.00	Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)	Kg	1,152.00	44.00	50,688	
124.00	KSRB 8.7-5: Providing and fixing in position 12mm thick plaster of paris (Gypsum anhydrous) for ceiling reinforced with hessian cloth flat surface with ceiling tiles up to a height of 5 m above floor level over aluminium strips 25mm x 6mm and rendered smooth with plaster of paris including cost of materials, labour, curing complete as per specifications.  KPWD 18-19,SI.No.8.24	Sqm	485.00	1,283.70	6,22,595	
125.00	KSRB 1.11: Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg/m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26. 7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar.  do- using aluminium section anodized to 12- 15 microns.  Ground Floor	Sqm	6.84	4,785.00	32,729	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
126.00	KSRB 1.11: Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26. 7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar. do- using aluminium section anodized to 12- 15 microns. Second Floor	Sqm	27.00	4,798.20	1,29,551	
127.00	Providing, fabricating, assembling and fixing in position Aluminium partition using 101.60mm x 44.45mm x 3.18mm aluminium, mat finish or glossy finish, anodized sections combination of plain, single groove and double groove members should not exceed 0.60mc/c and bottom member of required lengths, joints mitred and corner grinded sub dividing assembled frame should be stiffened with corner angles. Stripped and fixed with screws rawl plug and teakwood guttas to RCC column or masonry on sides. RCC lintels or beams at top and mosaic floor at bottom; including cutting chistelling and making good with cement mortar to match the surface. Providing and fixing 12mm. thick prelaminated sheet (Ecoboard - exterior grade) of approved colour for bottom panel of maximum height 0.9m, and 5.50 mm thick plain or pin headed glass for middle panel and top panel with glazing clips pi 19.05mm.x17.30mm.1.00mm.	Sqm	287.71	2,860.00	8,22,856	
	All the aluminium sections used should be treated for removal of any rust and prevention of further rust formation and coated with greasy materials for non adherence of mortar or any other sticky materials: The vertical members should be embedded in the flooring by making suitable size holes and fixing with cement mortar. All the frame should be thoroughly cleaned free from rust, scale or dirt. work should be carried out as per direction of engineer-in-charge of the work with all lead and lift as per Chief Architect's drawing etc., complete to a degree of perfection.  do- using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality.					
128.00	Providing and Fixing Handcarving Cornice and Bracket made up of Burma Wood as per the drawings and as instructed by Architect.	Sqm	4.00	6,994.00	27,976	
129.00	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size ), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits. 50 mm thick (CPWD 2018,SI.No.5.18.1,Pg.No.98)	Sqm	20.00	1,474.05	29,481	
130.00	Structural Glazing Works Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474,including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account). The weight of aluminium extruded section shall be taken for purpose of payment.	Kg	840.00	370.45	3,11,178	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
131.00	Double Glazing Grid:  Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:  (a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including:	Sqm	168.00	2,949.30	4,95,482	
	(b)Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimentional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon seperator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers. (c)Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass.					
	(d)Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight  (e)Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporatingprinciples of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer,					
	dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer- in-Charge					

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
	Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this subhead. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be measured in sqm. up to two decimal places.  Note:-2. The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accreditated by NABL(National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. Cost of testing is payable separately. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NABL accredited lab or by any other accreditation body which operates in accordance with ISO / IEC 17011 and accredits labs as per ISO/ IEC 17025.					
	1. Performance Laboratory Test for Air Leakage Test (-50pa to - 300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr  2. Static Water Penetration Test. (50pa to 1500p) as per ASTME- 331-09 testing method for a range up to 2000 ml.  3. Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml  4. Structural Performance Deflection and deformation by static air pressure test (1.5 times design wind pressure without any failure) as per ASTME-330-10 testing method for a range upto 50 mm  5. Seismic Movement Test (upto 30 mm) as per AAMA 501.4- 09 testing method for Qualitative test, Tests to be conducted on site.  6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000 ml					
132.00	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthned clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor.	Sqm	168.00	3,250.95	5,46,160	
	(Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.25.2) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.  (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.					
133.00	Providing and Fixing <b>SS 304 Outdoor Dustbin</b> (Pivoted Type and Mounted on SS Poles) of 55 liters capacity all complete to the satisfaction of the Engineer in charge. (NON SOR Item)	Nos.	5.00	7,500	37,500	
134.00	Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streak and holes complete as per specifications. MORTH specification No.803 (KPWD 18-19, SI No: 24.15)	Sqm	168.30	472	79,421	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
135.00	Fabricating, providing and erecting in poiston of M S Ornamental security Grill Gate/Fencing on compound wall without hot dip using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for suqare bars of full height and at 8cms C / C for bottom rods providg ornamental C I Designers at the botom and C I arrows inthe midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drillling holes. the work includes providing two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes with all lead and lift, loading, transporting and unloading using hoist pulley cranes, scaffolding charges and all other incidental charges required for successful completion fo the work as per specification and drawings(KPWD 18-19,Pg.N0.41,SI.No.7.31)		396.00	164	64,904	
136.00	Providing and Fixing SS Steel Chairs as specified by Architect.	Nos.	10.00	9,000	90,000	
137.00	P/F FRP Water gully cover with frame (25T) 600mmx500 mm on SWD (Rate analysis attached)	Nos.	47.00	7,912	3,71,877	
138.00	Providing and fixing of <b>S.S. Bollards(SS304</b> ) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	20.00	4,500	90,000	
139.00	Supplying and Fixing Passanger elevator of 8 Person Capacity of approved make and as per directed by Engineer in charge. (CPWD Plinth Area Basis Rate-2019)	Nos.	1.00	16,00,000	16,00,000	
140.00	Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5km Item No 17.4 KSRRB M100-4.1-Debris	Cum	180.02	91.30	16,436	
141.00	Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km Item No 17.4 KSRRB M100-4.1-Earth	Cum	1,115.96	90.86	1,01,396	
142.00	SOIL MIXES and Ground Preparation Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item)	Cum	312.35	140.00	43,729	
143.00	KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)	Cum	153.85	224.40	34,523	
144.00	KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77)	Cum	466.20	113.30	52,820	
145.00	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)	Cum	466.20	23.91	11,147	
146.00	Soil preparation of Lawn KSRRB M300-3.Making lawns including ploughing and breaking of clod,removal of rubbish,dressing and supplying doobs grass roots and planting at 15 cm apart,including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications. MORTH Specification No.307 (KSRRB 19.80)	Sqm	777.00	17.60	13,675	
147.00	ZOYSIA JAPONICA ( MAT)	Sqm	777.00	156.80	1,21,834	
148.00	(Non SOR Item) KSRRB M300- 8.1. Planting and Maintaining of Flowering Plants and Shrubs -A) Planting flowring plants and shrubs in central verge MORTH Specification No. 307	Rm	300.00	50.60	15,180	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
149.00	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.  MORTH Specification No. 307 KSRRB M300-Renovation lawns including, weeding, forking the ground, top dressing with forked soil	Nos.	60.00	115.50	6,930	
	LT Panels Fabrication, inspection at works Supply, installation, testing & commissioning of following readymade distribution boards, double door, IP 42 degree protection complete with necessary, MCB isolators, MCBs, earth leakage circuit breaker (ELCB) etc including interconnections with appropriate capacity size of PVC insulated copper conductor wires (ISI marked),suitable for concealed mounting /wall mounting with MS frame work of 40 x 40 x 5 mm MS angle iron, with M.S. enclosure fabricated out of min 16 SWG thick M.S. CRCA sheet with concealed hinged door, locking arrangement etc. including earthing clamps for both incoming & outgoing circuits, interconnections, per phase isolation kit as required,cable end box & wire way box if required, continuous copper earth wire in the wire way box with single/duplicate brass earthing terminals, danger board, name plate, flexible earthing for the door, metal treatment & powder coated painting, Phase Distribution drawing etc. all as per drawings (G.A. & fabrication drawing to be got approved), etc. relevant IS & instruction of Engineer-in-charge.  Note:1.MCBs shall be minimum 10 KA breaking capacity (Type –C)  2. Blanking Plates shall be included in scope of work.  3. DB shall be of standard readymade type as per catalouge No. from approved manufacturers as indicated in preferred makes of material.  4. Wire way & cable end box also end & locking plates shall be provided.					
150.00	5. Routine tests will be conducted at factory in presense of user as per relevant IS All Electrical component should have IS mark Main LT Panel Incomer 1 Nos. 100 Amps TPN MCCB of fault breaking capacity 25KA (Ics=Icu) BUSBARS SECTIONS 100 amps FP, 25kA, 480volts 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 2 Nos. Of 63 A TPN MCB 1 Nos. Of 40 A TPN MCB 1 Nos. Of 16 A TPN MCB 1 Nos. Of 63 A TPN MCB as SPARE 2 Nos. Of 40 A TPN MCB as SPARE	Set	1	35750.0	35,750	
	LT Panels Fabrication, inspection at works Supply, installation, testing & commissioning of following readymade distribution boards, double door, IP 42 degree protection complete with necessary, MCB isolators, MCBs, earth leakage circuit breaker (ELCB) etc including interconnections with appropriate capacity size of PVC insulated copper conductor wires (ISI marked),suitable for concealed mounting /wall mounting with MS frame work of 40 x 40 x 5 mm MS angle iron, with M.S. enclosure fabricated out of min 16 SWG thick M.S. CRCA sheet with concealed hinged door, locking arrangement etc. including earthing clamps for both incoming & outgoing circuits, interconnections, per phase isolation kit as required,cable end box & wire way box if required, continuous copper earth wire in the wire way box with single/duplicate brass earthing terminals, danger board, name plate, flexible earthing for the door, metal treatment & powder coated painting, Phase Distribution drawing etc. all as per drawings (G.A. & fabrication drawing to be got approved), etc. relevant IS & instruction of Engineer-in-charge.  Note:1.MCBs shall be minimum 10 KA breaking capacity (Type –C)  2. Blanking Plates shall be included in scope of work.  3. DB shall be of standard readymade type as per catalouge No. from approved manufacturers as indicated in preferred makes of material.  4. Wire way & cable end box also end & locking plates shall be provided					

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
151.00	EXTERNAL LIGHTING PANEL Incomer  1 Nos. 32 Amps TPN MCB BUSBARS SECTIONS  50 amps FP, 25kA, 480volts 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  5 Nos. Of 16 A TPN MCB  3 Nos. Of 16 A TPN MCB as SPARE	Set	2	52014.0	1,04,028	
152.00	Distribution Board Supplying and fixing regular MCB distribution boards on wall/wood board / flushh mouning using required clamps, bolt, nuts etc. with provision for fixing suitable type capacity MCB's single phase / 3 phase / single goor with powder ciated painting. Made out of 14 SWG MS enclosure.  III - Double Door  6Way TP & N	Nos.	1	2867.0	2,867	
153.00	Distribution Board Supplying and fixing regular MCB distribution boards on wall/wood board / flushh mouning using required clamps, bolt, nuts etc. with provision for fixing suitable type capacity MCB's single phase / 3 phase / single goor with powder ciated painting. Made out of 14 SWG MS enclosure.  III - Double Door 8Way TP & N	Nos.	1	3585.0	3,585	
154.00	Distribution Board Supplying and fixing regular MCB distribution boards on wall/wood board / flushh mouning using required clamps, bolt, nuts etc. with provision for fixing suitable type capacity MCB's single phase / 3 phase / single goor with powder ciated painting. Made out of 14 SWG MS enclosure.  III - Double Door 12Way TP & N	Nos.	2	5138.0	10,276	
155.00	Supplying & 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 SP	Nos.	114	418.0	47,652	
156.00	Supplying & 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	Nos.	1	1547.0	1,547	
157.00	Supplying & 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	Nos.	3	1936.0	5,808	
158.00	Supplying fixing and wiriing Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on existing wood/panel board. 16-25 Amps 2Pole	Nos.	1	2412.0	2,412	
159.00	Supplying fixing and wiriing Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on existing wood/panel board. 32-40 Amps 2Pole	Nos.	3	2623.0	7,869	
160.00	Supplying fixing and wiriing Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on existing wood/panel board. 63A TPN ISOLATOR	Nos.	1	5396	5,396	
161.00	Supplying fixing and wiriing Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on existing wood/panel board. 40A TPN ISOLATOR	Nos.	1	7010	7,010	
162.00	LT Cable Supplying and laying the following XLPE insulated 1.1 KV grade, FRLS (outer sheath only), armoured/flexible and overall sheathed copper/aluminium conductor cables made to IS: 7098 (Part-I) 1988. 3.5C x 50sq.mm Al Arm Cable	Mtr	80	265.0	21,200	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
163.00	Supplying, erecting & terminating XLPE armoured cable 4 core 16 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	50	734.0	36,700	
164.00	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	160	336.0	53,760	
165.00	Supplying, erecting & terminating XLPE armoured cable 4 core 4 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	1050	251.0	2,63,550	
166.00	LT Cable Termination Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1KV class (metal only) 32mm dia 2.5mm thick	Each	1	122.0	122	
167.00	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.  16 sqmm	Each	1	11.3	11	
168.00	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.  50 sqmm Long barrel	Each	3	62.4	187	
169.00	Cable Laying Labour charges for laying of 1.1KV class UG cable in existing trench/GI pipe/ stoneware pipe/ on wall/ on pole as required. in existing trench/duct 6 to 16 sqmm	Mtr	1000	10.8	10,800	
170.00	Cable Laying Labour charges for laying of 1.1KV class UG cable in existing trench/GI pipe/ stoneware pipe/ on wall/ on pole as required. in existing trench/duct 25 to 75 sqmm	Mtr	60	16.2	972	
171.00	Cable Laying Labour charges for laying of 1.1KV class UG cable in existing trench/GI pipe/ stoneware pipe/ on wall/ on pole as required. on wall structure 6 to 16 sqmm	Mtr	100	31.0	3,100	
172.00	Digging of trench of 0.6m deep X 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete (As per Civil SR KSRB i-2, P-7) In soil (ordinary)	Mtr	400	78.0	31,200	
173.00	Networking & Telecommunication Supply & Drawing UTP-CAT6E LAN Cable	Rmt	500	23.00	11,500	
174.00	Supply & Fixing of switch mounting rack with power manager & Cable manager  9U with 450mm depth	Nos	1	6593.00	6,593	
175.00	Supply fixing of Network Switches 48 Port Gigabyte (Manageble)	Nos.	1	34815.00	34,815	
176.00	Supplying & fixing of I/O socket with box Double I/O	Nos.	1	590.00	590	
177.00	Supplying & fixing ofmtr Cat6 Patch cable 3mtr	Nos.	52	337.00	17,524	
178.00	Supply & fixing of Patch panel for LAN cabling 48 Port 10/100 patch Panel	Each	1	13082.00	13,082	
179.00	Supplying and drawing PVC flexible one pair telephone unarmoured tinned copper cables 2 Pair	Mtr	120	13.00	1,560	
180.00	Crone Box 30 Pair Crone Box	1	1	1000.00	1,000	
181.00	UPS Supply, installation, testing and commissioning of ON - line UPS system with Batteries for 1/2 hour backup. UPS capacity:- 1 Nos. x 20 kVAPRS mode 3Ph-3Ph. with Batteries 6 x 80Ah volt and other accesories to complete the job	Nos	1	400000	4,00,000	
182.00	Cable Tray & Raceway Supplying & fixing 2mm thick galvanized perforated tray with powder coated paint on exixting MS angle support using necessary GI bolts/nuts and washer or welding as required. 150 X 50 mm	Mtr	30	440.0	13,200	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
183.00	Cable Tray & Raceway Supplying & fixing 2mm thick galvanized perforated tray with powder coated paint on exixting MS angle support using necessary GI bolts/nuts and washer or welding as required. 300 X 50 mm	Mtr	10	547.0	5,470	
184.00	Raceways & Accessories Supply and installation of single or multi compartment GI raceway of cross section given below laid in floor complete as specified. a) Raceway b) All bends, joints, supports, end plates couplers earth conductivity. 300 x 50 Double compartment	Rmt	20	1215.0	24,300	
185.00	Raceways & Accessories Supply and installation of single or multi compartment GI raceway of cross section given below laid in floor complete as specified.  a) Raceway b) All bends, joints, supports, end plates couplers earth conductivity.  150 x 50 Single compartment	Rmt	100	590.0	59,000	
186.00	Providing and fixing of 2 mm thick pregavanised sheet outlet junction box including providing cover with provision to adjust overall height, knock outs on four sides to accept raceways of specified sizes and cutouts to fix required outlets for following size of race ways.  300 mm wide x 40 mm deep raceway with 3/2/1 compatments	Nos	4	2500.0	10,000	
187.00	Providing and fixing of 2 mm thick pregavanised sheet outlet junction box including providing cover with provision to adjust overall height, knock outs on four sides to accept raceways of specified sizes and cutouts to fix required outlets for following size of race ways.  150 mm wide x 40 mm deep single compatment raceway	Nos	8	2000.0	16,000	
188.00	Light Fixture  Supply of 2'x2' LED recessed luminaire with Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit,overload & mis-wiring protection. Lumen maintenance of 70% at 50000Hrs. Injection moulded polycarbonate diffuser for better mwchanical stability, light transmission & avoid pot hole effect. Junction temp.shall be <70 degree Celsius. Driver is on constant current driver @0.06A with PF > 0.92 with line voltage@ 220-240V @ 50/60Hz, driver effeciency > 85% & THD <15%. LED Efficiency > 130lm/W at 1W & fixture efficency > 75lm/W with CRI >75 with injection moulded polycarbonate lens with <80mm depth. 5years Warranty against any manufacturing defect working under standard electrical condition.  LED modulear down light 2' x 2' -36watts	Each	31	8242.0	2,55,502	
189.00	Supply of LED square recessed downlighter with 18 W system wattage. Housing shall be with powder coated pressure die cast aluminium alloy with corrision resistant polyester powder coat & with extended heat sink. Diffuse/cover made of lexan plastic material. rated life shall be L70 @ 50000 Hrs ehich shall has inbuilt electrical protection like over/under voltage, short circuit, overload,open circuit & miswiring. Driver is in constant current driver output driver at 0.06A with PF> 0.9 with line voltage at 220-240V @ 50/60Hz, driver efficiency > 85% & THD <15%. LED Efficiency > 130 Im/W at 1 W & fixture efficiency > 75 Im/W with CRI > 75 with injection moulded polycarbonate lens. 5years Warranty against any manufacturing defect working under standard electrical condition.	Each	32	4945.0	1,58,240	
190.00	Supply of recess mounted rolling tpye LED square or round downlighter 12 Watts with 4/6W GU 10 LED Lamp Rib fabricated from Die cast Iron aluminium with white powder coated prewired to mains connector with suitable driver & having swiveling unit of aluminium die cast eye ball & LED lamp position retained by circular wire spring. 5years Warranty against any manufacturing defect working under standard electrical condition.	Each	8	1868.0	14,944	
191.00	11W Bulkhead Supplying and erecting bulkhead fitting suitable for upto LED upto 12W fixed on wall. As per specification no. FG-IDF/BHF	Nos.	3	221.0	663	
192.00	70 W LED COB Downlighter for Extra high ceiling	Nos	4	5985.0	23,940	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
193.00	Supplying of LED floodligt withW system power consumption pressure die cast aluminum housing with powder coating with IP 65 protection 1, 200-275V voltage with electronic driver, PF>0.9, should meet ANSI 2G vibration test, compliance to UL/CE with class I. System rating shall be 50K hrs @ Lumen maintenance of70% system efficiency>80I,/w. Over load & short circuit protection ensure relianble operation in spite of problem in output side. Compliance to IS 10322/IEC60598, LM 79 & LM 80 Adherence woth RoHS, UL approved MCPCB. Top acess street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. Light fixture with W system power consuption. LED efficiency > 130Im/W at 1W & fixture efficiency > 80Im/w with nominal CRI > 75. Luminiare manufasture should have in-house facility accreduted by NABL/CPRI & any government certified agency & design & development facility certified by ISO 9001:2008. Housing with supplier word mark / name shall be Engraved / Embossing on the die cast housing / body part. Warranty of 5 years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer. LED Floodlight 60W	Nos	2	7129.0	14,258	
194.00	Supply,installation,testing & commissioning of LED weatherproof street light fixture suitable for mounting on suitable dia pipe at any angle between lateral(side entry) and vertical(top mounted), prewired with led driver for 240V, 50Hz single phase AC supply, compliant to IP 65 protection grade, and all other necessasary components and accessories to finish the job. 40W LED light fixture	Nos.	40	2931	1,17,240	
195.00	Fabricating, supply, erection ofmtr long hot dip galvanized Octagonal pole with BSEN 10025 grade S 355 jo steel plate shaft IS 2062 for base plate with door opening arrangement , including suitable boards, Backelite sheet and MCB as per IS specification and suitable to withstand wind speed of 47 m/sec formtr pole in single section and single joint welded as per IS 9595/IS 10178 AWS having dimension bottommm and top mm with 3 mm thick, suitable base plate and 4 nos of long J bolt along with templet and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc. excluding foundation as per drawing 7 meter- top 70 mm and bottom 130 mm dia (SOR Item No - 5.14, 5.14.1) 7 meter - Top 70mm and bottom 130mm dia	Nos.	40	12420	4,96,800	
196.00	Supplying and fixing of hot deep Galvanized M.S.Bracket suitable for outdoor luminaries and mounted on Octogonal pole using necessary bolt, nuts etc., complete.  Single arm Bracket with 1000mm standard 40/50mm dia	Nos.	40	1919	76,760	
197.00	Bollard Lights Supply,installation,testing & commissioning of LED Bollard lights prewired with led driver operated on 240V, 50Hz single phase AC supply, compliant to IP 66 protection grade and with all other necessasary components and accessories to finish the job.  (For GardenLighting) 10 - 12W LED light fixture	Nos.	34	2205	74,970	
198.00	Point Wiring, Switch Sockets & Accesories OPEN CONDUIT SYSTEM Supply heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using intverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws 25mm dia 2mm thick	Mtr	200	70.0	14,000	
199.00	Point Wiring, Switch Sockets & Accesories OPEN CONDUIT SYSTEM Supply heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using intverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws 32mm dia 2.5mm thick	Mtr	100	100.0	10,000	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
200.00	Supply heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends shoild be covered using PVC and enclosures, run with 18SWG GI fish wire wherever necessary 25mm dia 2mm thick	Mtr	100	57.0	5,700	
201.00	Supply heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends shoild be covered using PVC and enclosures, run with 18SWG GI fish wire wherever necessary 32mm dia 2.5mm thick	Mtr	100	90.0	9,000	
202.00	POINT WIRING USING COPPER WIRE Wiring for light/power circuit using one of FRLS PVC insulated 1100V grade, multistanded copper with low conductor resistance single core in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP-A. 1.5 sqmm	Mtr	2200	18.6	40,920	
203.00	POINT WIRING USING COPPER WIRE Wiring for light/power circuit using one of FRLS PVC insulated 1100V grade, multistanded copper with low conductor resistance single core in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP-A. 2.5 sqmm	Mtr	1400	29.2	40,880	
204.00	POINT WIRING USING COPPER WIRE Wiring for light/power circuit using one of FRLS PVC insulated 1100V grade, multistanded copper with low conductor resistance single core in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP-A. 4 sqmm	Mtr	1100	42.1	46,310	
205.00	SWITCH, SOCKESTS & ACCESSORIES Switch, socket, data & telephone points Supply and flush mounting powder coated/ galvanised metal box suibale for mounting modular switch plated. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 1-3 Way	Each	31	91.0	2,821	
206.00	SWITCH, SOCKESTS & ACCESSORIES Switch, socket, data & telephone points Supply and flush mounting powder coated/ galvanised metal box suibale for mounting modular switch plated. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 6 Way	Each	108	121.0	13,068	
207.00	Supply and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the the existing metal/PVC box 1 to 3 Module	Each	31	109.0	3,379	
208.00	Supply and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the the existing metal/PVC box 6 Module	Each	108	173.0	18,684	
209.00	Supply and fixing of modular switch/ socket/ stepped electronic fan regulator/ dimmer/ telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 6 amp one Way	Each	5	63.0	315	
210.00	Supply and fixing of modular switch/ socket/ stepped electronic fan regulator/ dimmer/ telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 6 amp 3Way Socket	Each	5	95.0	475	
211.00	Supply and fixing of modular switch/ socket/ stepped electronic fan regulator/ dimmer/ telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 16 Amp one way switch	Each	109	114.0	12,426	
212.00	Supply and fixing of modular switch/ socket/ stepped electronic fan regulator/ dimmer/ telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 6/16 Amps Universal Socket	Each	109	147.0	16,023	
213.00	Supply and fixing of modular switch/ socket/ stepped electronic fan regulator/ dimmer/ telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 TV / Telephone Socket	Each	26	82.0	2,132	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
214.00	Supply and fixing of modular switch/ socket/ stepped electronic fan regulator/ dimmer/ telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 RJ45/IO Outlet	Each	26	204.0	5,304	
215.00	GI EARTHING Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	Each	14	5308.0	74,312	
216.00	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	2	11794.0	23,588	
217.00	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Metre	500	131.0	65,500	
218.00	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	Metre	40	853.0	34,120	
219.00	GI wire Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit sysytem of wiring) using necessary suitable size clamps, nails, guttas/spacers, etc. 8 SWG	Mtr	150	19.5	2,925	
220.00	Supply, Installation, testing and commissioning of <b>6W Ceiling Speaker</b> with max 1M/1W 96DB. Frequency response of 80Hz-20KHz with a dispersion angle of 160 deg.	No	13	1780	23,140	
221.00	Supply, Installation, testing and commissioning of 15W Wall mount Horn Speaker	No	2	10132	20,264	
222.00	Supply, Installation, testing and commissioning 2Core, 1.5 sq. mm Screened Multi-Stranded, Bare Copper Conductor, PVC Insulated cable as per IS 694-1990	Mtr	350	51	17,850	
223.00	Supplying heavy gauge PVC conduit pipe below mention mm dia and thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc. and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclousers, run with 18 swg fish wire wherever necessasary 25 mm dia 2 mm thick	Mtr.	200	70	14,000	
224.00	Supplying, installation, testing & commissioning of intelligent addressable duct detector including suitable Photo detector complete with base as required.	Nos.	25	7801	1,95,025	
225.00	Supplying, installation, testing & commissioning of response indicator on surface/recessed MS Box having two LED, metallic cover complete with all connections etc as required.	Nos.	7	263	1,841	
226.00	Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed tempreature thermistor complete with base as required.	Nos.	1	2713	2,713	
227.00	Supplying, installation, testing & commissioning of addressable manual call point complete as required.	Nos.	3	3859	11,577	
228.00	Supplying, installation, testing & commisssioning of intelligent addressable programmable sounder complete as required.	Nos.	3	2638	7,914	
229.00	Supplying, installation, testing & commissioning of addressable strobe complete as required.	Nos.	3	3354	10,062	
230.00	Supplying and erecting UPVC conduit 25 mm in dia. conforming to I.S. with required number of couplings, PVC bushes, check nuts etc. complete.	RM	300	58	17,400	
231.00	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath complete as required.	RM	350	141	49,350	
232.00	Supplying and erecting ABC Dry Chemical Powder type Fire extinguisher 4 kg capacity cartridge tyB with gun metal cap 150 gram CO2 gas cartridge powder and brackets conforming to IS 2171-1985 and complete erected with necessary clamps made from 50x6mm MS flat with nuts and bolts grouted in wall complete	Nos.	5	4788	23,940	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
233.00	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 rnaking good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Nos.	8	4956	39,648	
234.00	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 15 mm nominal bore	Nos.	8	418.95	3,352	
235.00	Providing and fixing <b>Hand shower (health faucet)</b> with 8mm dia. 1m long flexible tube having wall hook with approved make including necessary sockets/ union nut etc. complete as directed by Engineer in charge.	Nos.	8	1677	13,416	
236.00	Providing and fixing white vitreous china clay, flat back wash basin size 550x400mm with a pair of15mm 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 size 550 x 400mm	Nos.	8	3879	31,032	
237.00	Providing vitreous china clay toilet paper holder with a pack of papers as per specification	Nos.	8	414	3,312	
238.00	Supplying and fixing of <b>UPVC WC connector</b> (straight or bend type) with rubber lip ring. Including 110 mm dia UPVC pipe of required length and proper connection complete as required.	Nos.	8	864	6,912	
239.00	Providing gun metal pillar cocks 15mm dia of I class conforming to ISI specifications and fixing them in position as per directions including of cost of materials and fixtures and conveyance to spot	Nos.	4	242	968	
240.00	Providing and fixing PTMT <b>Waste Coupling</b> for sink, of approved quality and colour. Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms	Nos.	8	99.75	798	
241.00	Providing and fixing CP Brass 32mm size <b>Bottle Trap</b> of approved quality & make and as per the direction of Engineer-in-charge.	Nos.	8	883.05	7,064	
242.00	Providing and fixing 600x450mm <b>bevel Lead edge mirror</b> 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.	Nos.	8	1157	9,256	
243.00	Providing and fixing liquid soap glass dispenser and holder as per design.	Pair	8	145	1,160	
244.00	INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chorinated 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	Rmt	62	206	12,772	
245.00	INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chorinated 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	Rmt	5	235	1,175	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
246.00	INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chorinated 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	Rmt	56	293	16,408	
247.00	INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chorinated 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.) 32mm nominal OD pipes	Rmt	30	374	11,220	
248.00	Providing and fixing gun metal wheel valve conforming to IS specification of approved make as per directions including all lead and lift etc., complete. 15mm dia	Nos.	2	395	790	
249.00	Providing and fixing gun metal wheel valve conforming to IS specification of approved make as per directions including all lead and lift etc., complete. 20mm dia	Nos.	2	414	828	
250.00	Providing and fixing gun metal wheel valve conforming to IS specification of approved make as per directions including all lead and lift etc., complete. 25mm dia	Nos.	12	447	5,364	
251.00	Providing and fixing gun metal wheel valve conforming to IS specification of approved make as per directions including all lead and lift etc., complete. 32mm dia	Nos.	12	486	5,832	
252.00	Providing and fixing gun metal wheel valve conforming to IS specification of approved make as per directions including all lead and lift etc., complete. 40mm dia	Nos.	8	562	4,496	
253.00	Providing and fixing gun metal wheel valve conforming to IS specification of approved make as per directions including all lead and lift etc., complete. 50mm dia	Nos.	4	734	2,936	
254.00	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required:	Set	6	3671	22,026	
255.00	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required:	Set	1	4149	4,149	
256.00	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required:  50 mm	Set	4	2800	11,200	
257.00	Providing, installation, testing and commissioning of Gun metal Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.  50 mm	Each	2	3200	6,400	
258.00	Supplying and installing <b>pressure gauge</b> of 100 mm dia., 0-300 PSI or 0-14 kg per cm square fitted with 12/15 mm dia. pad cock valve, and G.I. pipe, elbow etc. complete as per specification no. FF-FFA/PG	Each	2	657	1,314	
259.00	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.  25 mm dia nominal	Nos.	5	513	2,565	
260.00	Supplying Installing, testing and commissioning of Gun metal AIR RELEASE VALVE SIZE OF 25mm dia including cost of materials, labour, HOM complete as per specifications.  Page 30	Nos.	4	1875	7,500	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
261.00	Providing & fixing PVC Vent Cowl 110 mm	Nos.	2	450	900	
262.00	Providing & fixing PVC Vent Cowl	Nos.	2	320	640	
263.00	EXTERNAL WATER SUPPLY SYSTEM Providing and fixing in trenches galvanised IS 1239 C classpipe nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications.  50 mm dia	Rmt	22	388	8,536	
264.00	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 and testing complete as per specifications.	Set	1	1320	1,320	
265.00	INTERNAL DRAINAGE SYSTEM Providing and fixing SWR pipes 6 kg/sq.cm B class working pressure with pipe fittings, support, including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications. IS 13592 do- with 110mm outer dia	Rmt	65	750	48,750	
266.00	INTERNAL DRAINAGE SYSTEM Providing and fixing SWR pipes 6 kg/sq.cm B class working pressure with pipe fittings, support, including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications. IS 13592 do- with 160mm outer dia	Rmt	50	1150	57,500	
267.00	Providing and fixing SS Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M15 as directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).  12.5 cms x 7.5 cms	Each	4	1120	4,480	
268.00	Supplying & Fixing in position 100 mm dia <b>UPVC Multi traps</b> 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.	9	1520	13,680	
269.00	Providing and fixing PVC Gully Trap as per specification 300 X 300	Nos.	3	1150	3,450	
270.00	Inspetion Chamber Constructing brick masonry inspection chamber internal dimensions 450x450mm, (clear inside dimension) for pipeline with three or more inlets, using table moulded non-modular bricks of class designation 50 in cement mortar 1.5, C. I cover with frame (Heavy duty) total weight of cover with frame to be not less than 125 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. (Depth up to 600- 1500 mm)	Nos.	1	8900	8,900	
271.00	Constructing brick masonry inspection chamber internal dimensions 450x900mm, (clear inside dimension) for pipeline with three or more inlets, using table moulded non-modular bricks of class designation 50 in cement mortar 1•5, C. I cover with frame (Heavy duty) total weight of cover with frame to be not less than 125 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. (Depth up to 600- 1500 mm)	Nos.	6	12500	75,000	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
272.00	Water Tank Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of high density polythyler and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet,outlet overflow pipe inclusive of all tanks capacity Capacity- 5000 ltr	Unit	1	60000	60,000	
273.00	Pumps Supply, installation, testing & commissioning of Submersible pumps (1 working + 1 standby) with 10 mm thick solid handling capacity. C.I body with built in strainer & SS 304 impeller, coupled to motor suitable for operation on 430 V 3 pH 50 Cycle A/C power supply and lifting arrangement including complete as required. Automatic Electric control panel with change over switch, relays, electrical wiring, cabling from panel to pumps, level controller complete with all accessories as per manufacturer specifications Accessories like NRV's valves on discharge and valve and strainer in suction line, header for suction and delivery side, required cut pieces of pipes, fittings, flanges, pressure gauge, base frame and concrete foundation complete as required. Flow rate : 3 LPS (1 Working +1 Standby) Head : 35 Mts Purpose : Water Transfer from UGT to OHT Location : Underground Tank	Nos.	2	105000	2,10,000	
274.00	Variable Refrigerant Flow system VRF UNIT Supply, Installation, Testing & Commisioning of modular type Variable Refrigerant Volume Air Cooled Outdoor Units suitable for cooling and heating, having all hermetically sealed inverter type scroll compressor, minimum two compressors for above 14HP modules, microprocessor based controller, top discharge type condensing units, with R 410A refrigerant, vibration isolators with suitable foundation etc. complete as required. The unit shall deliver the rated capacity at AHRI Conditions & work even at 50 °C ambient temperature without tripping. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. The unit shall be filled with first charge of refrigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and EER not less than 6.5.	Nos.	1	164150	1,64,150	
275.00	Supply,installation,testing and commissioning of following minimum capacity 4 way flow VRV/VRF Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower,multi speed motor, coil section with DX Copper coil, electronic expansion valve,outer cabinet, drain pump,grill, necessary supports, vibration isolation, cordless remote controletc.,suitable for operation on single phase 230V±10%, 50HzAC supply, complete, as required. The units shall have automatic force shutdown provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27Degree C DB and 19 Degree C WB temperature.	Nos.	4	31453	1,25,812	
276.00	Supplying, installing, testing and commissioning split type variable speed inverter technology room Air conditioning unit <b>2 TR</b> capacity having ISEER minimum 4.50 suitable to operate on 250V, 50 cycles, A.C. supply having 1 no. of air handling unit hi-wall/ floor mounting type complete with Refrigerants R410 A /R32 and copper condenser at position. specification no. APAC/ SAC	Nos.	2	62944	1,25,888	
277.00	Supplying, installing, testing and commissioning split type variable speed Inverter technology room Air conditioning unit 1.5 TR capacity having ISEER minimum 4.50 suitable to operate on250V, 50 cycles, A.C. supply having 1 no of air handling unit hiwall / floor mounting type complete with refrigerant R410 A/R32 and copper condensor at position. specification no.APAC/SAC	Nos.	1	51676	51,676	
278.00	Supply, installation, testing and commissioning of copper conductor 2C*1.0 sqmm Control cabling with PVC conduit from indoor to outdoor unit.	Rmt	40	312	12,480	
279.00	Refnets for VRV System (To be supplied by unit manufacturer) Vendor is expected to minimise no. of joints that is required for a complete installation.	Nos.	3	2550	7,650	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
280.00	Supply, installation, testing and commissioning of interconnecting Copper Refrigerant piping between indoor and outdoor unit of VRF system along with Insulation & all accessories like, T, Bend, Elbows. Piping shall be properly Clamped / Installed on Ceiling / Wall by providing GI angle, bracket, threaded support, nut, washer etc., complete piping shall be pressure tested. Insulation of Refrigerant Piping shall be with 19 mm thick nitrile rubber Thermal Insulation. All joints shall be ceiled with good quality adhesive. All piping inside the room will be properly supported with hanger and all external pipe with proper supports and fittings Final sizes ,of Copper Piping sizes shall be as per selected OEM's Requirement . HVAC Contractor shall prepare the shop drawing for Cu Piping Scheme ,which would require final approval from Consultant / Architect ,prior to procurment & execution .  SUCTION LINE	Rmt	60	1202	72,120	
281.00	Supply, installation, testing and commissioning of interconnecting Copper Refrigerant piping between indoor and outdoor unit of VRF system along with Insulation & all accessories like, T, Bend, Elbows. Piping shall be properly Clamped / Installed on Ceiling / Wall by providing GI angle, bracket, threaded support, nut, washer etc., complete piping shall be pressure tested. Insulation of Refrigerant Piping shall be with 19 mm thick nitrile rubber Thermal Insulation. All joints shall be ceiled with good quality adhesive. All piping inside the room will be properly supported with hanger and all external pipe with proper supports and fittings Final sizes ,of Copper Piping sizes shall be as per selected OEM's Requirement . HVAC Contractor shall prepare the shop drawing for Cu Piping Scheme ,which would require final approval from Consultant / Architect ,prior to procurment & execution .	Rmt	60	847	50,820	
282.00	Supply, installation, testing and commissioning of drain piping using UPVC pipe SCH40 with UPVC fittings and insulated with 6mm thick nitrile rubber o class insulation finished with polished. The pipe goes below ground should be rapped with polythene sheet as follows:  40 mm Dia	Rmt	12.6	447.2	5,635	
283.00	Supply, installation, testing and commissioning of drain piping using UPVC pipe SCH40 with UPVC fittings and insulated with 6mm thick nitrile rubber o class insulation finished with polished. The pipe goes below ground should be rapped with polythene sheet as follows:  32 mm Dia	Rmt	21.8	343.2	7,482	
284.00	Supply, installation, testing and commissioning of drain piping using UPVC pipe SCH40 with UPVC fittings and insulated with 6mm thick nitrile rubber o class insulation finished with polished. The pipe goes below ground should be rapped with polythene sheet as follows:  25 mm	Rmt	21	215	4,515	
285.00	CABLE TRAY/ SUPPORTS/ ENCLOSURE / SLEEVES FOR / REFRIGERANT PIPING / CABLING Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. 450 mm width X 50 mm depth X 2.0 mm thickness	Rmt	32	1213	38,816	
286.00	CABLE TRAY/ SUPPORTS/ ENCLOSURE / SLEEVES FOR / REFRIGERANT PIPING / CABLING Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. 300 mm width X 50 mm depth X 1.6 mm thickness	Rmt	8	875	7,000	
287.00	CABLE TRAY/ SUPPORTS/ ENCLOSURE / SLEEVES FOR / REFRIGERANT PIPING / CABLING Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. 225 mm width X 50 mm depth X 1.6 mm thickness	Rmt	28	811	22,708	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
	MS FRAME STRUCTURE Supply, fabrication and installation of <b>MS base frame for outdoor units</b> complete with 2 coat of epoxy painting, vibration isolation pads, supports, hangers, railing, brackets etc. For construction Construction as approved by Architect/ Consultant. Apply 2 coats of epoxy primer 2 coats of epoxy paint and finish painting as approved by Architect. Stand to be made as per site conditions.	Kg	8	265	2,120	
	Ducting Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required. Thickness 0.63 mm sheet (24 gauge)	Sqmtr	50	983	49,150	
290.00	Supplying and erecting aluminium powder coated grill of suitable size for width length without collar dampers having matching colour with the existing false ceiling	Sqmtr	2	1800	3,600	
291.00	Supply, installation, testing and commissioning of flexible duct 50 mm dia	Sqmtr	8	884	7,072	
292.00	Supply and Installation, testing, commissioing of Underdeck Insualtion with 25 mm thk Fire retardent Glass wool rigid boardcovered with R P tissue paper & 30 mm gauge perforated aluminium clading, density 80 kg/cu.m sheet all joints for fixing and GI screws	Sqmtr	255	700	1,78,500	
293.00	VENTILATION SYSTEM FOR TOILET Supply and Installation, testing, commissioing of Propeller type wall mounted fan with louver, cowl and bird screen on outside. 50 cms	Nos.	6	1950	11,700	
	Supply and Installation, testing, commissioing of axial type cabinet fresh air fan with cowl and bird screen on outside 300 cms	Nos.	1	4200	4,200	
			Total		3,73,31,098	

Assistant Engineer MSCL Mangaluru Assistant Executive Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

	OPEX COST FOR 1st YEAR- UPGRADATION OF UPOR									
Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks				
	LT Panels Fabrication, inspection at works Supply, installation, testing & commissioning of following readymade distribution boards, double door, IP 42 degree protection complete with necessary, MCB isolators, MCBs, earth leakage circuit breaker (ELCB) etc including interconnections with appropriate capacity size of PVC insulated copper conductor wires (ISI marked),suitable for concealed mounting /wall mounting with MS frame work of 40 x 40 x 5 mm MS angle iron, with M.S. enclosure fabricated out of min 16 SWG thick M.S. CRCA sheet with concealed hinged door, locking arrangement etc. including earthing clamps for both incoming & outgoing circuits, interconnections, per phase isolation kit as required,cable end box & wire way box if required, continuous copper earth wire in the wire way box with single/duplicate brass earthing terminals, danger board, name plate, flexible earthing for the door, metal treatment & powder coated painting, Phase Distribution drawing etc. all as per drawings (G.A. & fabrication drawing to be got approved), etc. relevant IS & instruction of Engineer-in-charge.  Note:1.MCBs shall be minimum 10 KA breaking capacity (Type –C)  2. Blanking Plates shall be included in scope of work.  3. DB shall be of standard readymade type as per catalouge No. from approved manufacturers as indicated in preferred makes of material.  4. Wire way & cable end box also end & locking plates shall be provided.									
1.00	5. Routine tests will be conducted at factory in presense of user as per relevant IS All Electrical component should have IS mark  Main LT Panel Incomer  1 Nos. 100 Amps TPN MCCB of fault breaking capacity 25KA (Ics=Icu)  BUSBARS SECTIONS  100 amps FP, 25kA, 480volts 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  2 Nos. Of 63 A TPN MCB  1 Nos. Of 40 A TPN MCB  1 Nos. Of 16 A TPN MCB  1 Nos. Of 63 A TPN MCB as SPARE  2 Nos. Of 40 A TPN MCB as SPARE	Set	0.021	35750.0	,,736					
	LT Panels Fabrication, inspection at works Supply, installation, testing & commissioning of following readymade distribution boards, double door, IP 42 degree protection complete with necessary, MCB isolators, MCBs, earth leakage circuit breaker (ELCB) etc including interconnections with appropriate capacity size of PVC insulated copper conductor wires (ISI marked),suitable for concealed mounting /wall mounting with MS frame work of 40 x 40 x 5 mm MS angle iron, with M.S. enclosure fabricated out of min 16 SWG thick M.S. CRCA sheet with concealed hinged door, locking arrangement etc. including earthing clamps for both incoming & outgoing circuits, interconnections, per phase isolation kit as required,cable end box & wire way box if required, continuous copper earth wire in the wire way box with single/duplicate brass earthing terminals, danger board, name plate, flexible earthing for the door, metal treatment & powder coated painting, Phase Distribution drawing etc. all as per drawings (G.A. & fabrication drawing to be got approved), etc. relevant IS & instruction of Engineer-in-charge.  Note:1.MCBs shall be minimum 10 KA breaking capacity (Type –C)  2. Blanking Plates shall be included in scope of work.  3. DB shall be of standard readymade type as per catalouge No. from approved manufacturers as indicated in preferred makes of material.  4. Wire way & cable end box also end & locking plates shall be provided									

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
2.00	EXTERNAL LIGHTING PANEL Incomer  1 Nos. 32 Amps TPN MCB BUSBARS SECTIONS  50 amps FP, 25kA, 480volts 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  5 Nos. Of 16 A TPN MCB  3 Nos. Of 16 A TPN MCB as SPARE	Set	0.041	52014.0	,2,143	
3.00	Distribution Board Supplying and fixing regular MCB distribution boards on wall/wood board / flushh mouning using required clamps, bolt, nuts etc. with provision for fixing suitable type capacity MCB's single phase / 3 phase / single goor with powder ciated painting. Made out of 14 SWG MS enclosure. III - Double Door 6Way TP & N	Nos.	0.021	2867.0	,,59	
4.00	Distribution Board Supplying and fixing regular MCB distribution boards on wall/wood board / flushh mouning using required clamps, bolt, nuts etc. with provision for fixing suitable type capacity MCB's single phase / 3 phase / single goor with powder ciated painting. Made out of 14 SWG MS enclosure.  III - Double Door 8Way TP & N	Nos.	0.021	3585.0	,,74	
5.00	Distribution Board Supplying and fixing regular MCB distribution boards on wall/wood board / flushh mouning using required clamps, bolt, nuts etc. with provision for fixing suitable type capacity MCB's single phase / 3 phase / single goor with powder ciated painting. Made out of 14 SWG MS enclosure.  III - Double Door 12Way TP & N	Nos.	0.041	5138.0	,,212	
6.00	Supplying & 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 SP	Nos.	2.348	418.0	,,982	
7.00	Supplying & 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	Nos.	0.021	1547.0	,,32	
8.00	Supplying & 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	Nos.	0.062	1936.0	,,120	
9.00	Supplying fixing and wiriing Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on existing wood/panel board. 16-25 Amps 2Pole	Nos.	0.021	2412.0	,,50	
10.00	Supplying fixing and wiriing Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on existing wood/panel board. 32-40 Amps 2Pole	Nos.	0.062	2623.0	,,162	
11.00	Supplying fixing and wiriing Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on existing wood/panel board. 63A TPN ISOLATOR	Nos.	0.021	5396	,,111	
12.00	Supplying fixing and wiriing Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on existing wood/panel board. 40A TPN ISOLATOR	Nos.	0.021	7010	,,144	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
13.00	LT Cable Supplying and laying the following XLPE insulated 1.1 KV grade, FRLS (outer sheath only), armoured/flexible and overall sheathed copper/aluminium conductor cables made to IS: 7098 (Part-I) 1988.  3.5C x 50sq.mm Al Arm Cable	Mtr	1.648	265.0	,,437	
14.00	Supplying, erecting & terminating XLPE armoured cable 4 core 16 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	1.030	734.0	,,756	
15.00	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	3.296	336.0	,1,107	
16.00	Supplying, erecting & terminating XLPE armoured cable 4 core 4 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	21.630	251.0	,5,429	
17.00	LT Cable Termination Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1KV class (metal only) 32mm dia 2.5mm thick	Each	0.021	122.0	,,3	
18.00	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.  16 sqmm	Each	0.021	11.3	,,0	
19.00	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 50 sqmm Long barrel	Each	0.062	62.4	,,4	
20.00	Cable Laying Labour charges for laying of 1.1KV class UG cable in existing trench/GI pipe/ stoneware pipe/ on wall/ on pole as required. in existing trench/duct 6 to 16 sqmm	Mtr	20.600	10.8	,,222	
21.00	Cable Laying Labour charges for laying of 1.1KV class UG cable in existing trench/GI pipe/ stoneware pipe/ on wall/ on pole as required. in existing trench/duct 25 to 75 sqmm	Mtr	1.236	16.2	,,20	
22.00	Cable Laying Labour charges for laying of 1.1KV class UG cable in existing trench/GI pipe/ stoneware pipe/ on wall/ on pole as required. on wall structure 6 to 16 sqmm	Mtr	2.060	31.0	,,64	
23.00	Digging of trench of 0.6m deep X 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete (As per Civil SR KSRB i-2, P-7) In soil (ordinary)	Mtr	8.240	78.0	,,643	
24.00	Networking & Telecommunication Supply & Drawing UTP-CAT6E LAN Cable	Rmt	10.300	23.00	,,237	
25.00	Supply & Fixing of switch mounting rack with power manager & Cable manager  9U with 450mm depth	Nos	0.021	6593.00	,,136	
26.00	Supply fixing of Network Switches 48 Port Gigabyte (Manageble)	Nos.	0.021	34815.00	,,717	
27.00	Supplying & fixing of I/O socket with box Double I/O	Nos.	0.021	590.00	,,12	
28.00	Supplying & fixing ofmtr Cat6 Patch cable 3mtr	Nos.	1.071	337.00	,,361	
29.00	Supply & fixing of Patch panel for LAN cabling 48 Port 10/100 patch Panel	Each	0.021	13082.00	,,269	
30.00	Supplying and drawing PVC flexible one pair telephone unarmoured tinned copper cables 2 Pair	Mtr	2.472	13.00	,,32	
31.00	Crone Box 30 Pair Crone Box	1	0.021	1000.00	,,21	
32.00	UPS Supply, installation, testing and commissioning of ON - line UPS system with Batteries for 1/2 hour backup. UPS capacity:- 1 Nos. x 20 kVAPRS mode 3Ph-3Ph. with Batteries 6 x 80Ah volt and other accesories to complete the job	Nos	0.021	400000	,8,240	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
33.00	Cable Tray & Raceway Supplying & fixing 2mm thick galvanized perforated tray with powder coated paint on exixting MS angle support using necessary GI bolts/nuts and washer or welding as required. 150 X 50 mm	Mtr	0.618	440.0	,,272	
34.00	Cable Tray & Raceway Supplying & fixing 2mm thick galvanized perforated tray with powder coated paint on exixting MS angle support using necessary GI bolts/nuts and washer or welding as required. 300 X 50 mm	Mtr	0.206	547.0	,,113	
35.00	Raceways & Accessories Supply and installation of single or multi compartment GI raceway of cross section given below laid in floor complete as specified.  a) Raceway b) All bends, joints, supports, end plates couplers earth conductivity.  300 x 50 Double compartment	Rmt	0.412	1215.0	,,501	
36.00	Raceways & Accessories Supply and installation of single or multi compartment GI raceway of cross section given below laid in floor complete as specified.  a) Raceway b) All bends, joints, supports, end plates couplers earth conductivity.  150 x 50 Single compartment	Rmt	2.060	590.0	,1,215	
37.00	Providing and fixing of 2 mm thick pregavanised sheet outlet junction box including providing cover with provision to adjust overall height, knock outs on four sides to accept raceways of specified sizes and cutouts to fix required outlets for following size of race ways.  300 mm wide x 40 mm deep raceway with 3/2/1 compatments	Nos	0.082	2500.0	,,206	
38.00	Providing and fixing of 2 mm thick pregavanised sheet outlet junction box including providing cover with provision to adjust overall height, knock outs on four sides to accept raceways of specified sizes and cutouts to fix required outlets for following size of race ways.  150 mm wide x 40 mm deep single compatment raceway	Nos	0.165	2000.0	,,330	
39.00	Light Fixture  Supply of 2'x2' LED recessed luminaire with Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit,overload & mis-wiring protection. Lumen maintenance of 70% at 50000Hrs. Injection moulded polycarbonate diffuser for better mwchanical stability, light transmission & avoid pot hole effect. Junction temp.shall be <70 degree Celsius. Driver is on constant current driver @0.06A with PF > 0.92 with line voltage@ 220-240V @ 50/60Hz, driver effeciency > 85% & THD <15%. LED Efficiency > 130lm/W at 1W & fixture efficency > 75lm/W with CRI >75 with injection moulded polycarbonate lens with <80mm depth. 5years Warranty against any manufacturing defect working under standard electrical condition.  LED modulear down light 2' x 2' -36watts	Each	0.639	8242.0	,5,263	
40.00	Supply of LED square recessed downlighter with 18 W system wattage. Housing shall be with powder coated pressure die cast aluminium alloy with corrision resistant polyester powder coat & with extended heat sink. Diffuse/cover made of lexan plastic material. rated life shall be L70 @ 50000 Hrs ehich shall has inbuilt electrical protection like over/under voltage, short circuit, overload,open circuit & miswiring. Driver is in constant current driver output driver at 0.06A with PF> 0.9 with line voltage at 220-240V @ 50/60Hz, driver efficiency > 85% & THD <15%. LED Efficiency > 130 lm/W at 1 W & fixture efficiency > 75 lm/W with CRI > 75 with injection moulded polycarbonate lens. 5years Warranty against any manufacturing defect working under standard electrical condition.	Each	0.659	4945.0	,3,260	
41.00	Supply of recess mounted rolling tpye LED square or round downlighter 12 Watts with 4/6W GU 10 LED Lamp Rib fabricated from Die cast Iron aluminium with white powder coated prewired to mains connector with suitable driver & having swiveling unit of aluminium die cast eye ball & LED lamp position retained by circular wire spring. 5years Warranty against any manufacturing defect working under standard electrical condition.	Each	0.165	1868.0	,,308	
42.00	11W Bulkhead Supplying and erecting bulkhead fitting suitable for upto LED upto 12W fixed on wall. As per specification no. FG-IDF/BHF	Nos.	0.062	221.0	,,14	
43.00	70 W LED COB Downlighter for Extra high ceiling Page 38	Nos	0.082	5985.0	,,493	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
44.00	Supplying of LED floodligt withW system power consumption pressure die cast aluminum housing with powder coating with IP 65 protection 1, 200-275V voltage with electronic driver, PF>0.9, should meet ANSI 2G vibration test, compliance to UL/CE with class I. System rating shall be 50K hrs @ Lumen maintenance of70% system efficiency>80I,/w. Over load & short circuit protection ensure relianble operation in spite of problem in output side. Compliance to IS 10322/IEC60598, LM 79 & LM 80 Adherence woth RoHS, UL approved MCPCB. Top acess street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. Light fixture with W system power consuption. LED efficiency > 130Im/W at 1W & fixture efficiency > 80Im/w with nominal CRI > 75. Luminiare manufasture should have in-house facility accreduted by NABL/CPRI & any government certified agency & design & development facility certified by ISO 9001:2008. Housing with supplier word mark / name shall be Engraved / Embossing on the die cast housing / body part. Warranty of 5 years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer.  LED Floodlight 60W	Nos	0.041	7129.0	,,294	
45.00	Supply,installation,testing & commissioning of LED weatherproof street light fixture suitable for mounting on suitable dia pipe at any angle between lateral(side entry) and vertical(top mounted), prewired with led driver for 240V, 50Hz single phase AC supply, compliant to IP 65 protection grade, and all other necessasary components and accessories to finish the job. 40W LED light fixture	Nos.	0.824	2931	,2,415	
46.00	Fabricating, supply, erection ofmtr long hot dip galvanized Octagonal pole with BSEN 10025 grade S 355 jo steel plate shaft IS 2062 for base plate with door opening arrangement , including suitable boards, Backelite sheet and MCB as per IS specification and suitable to withstand wind speed of 47 m/sec formtr pole in single section and single joint welded as per IS 9595/IS 10178 AWS having dimension bottommm and top mm with 3 mm thick, suitable base plate and 4 nos of long J bolt along with templet and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM - A123 and 153 etc. excluding foundation as per drawing 7 meter- top 70 mm and bottom 130 mm dia (SOR Item No - 5.14, 5.14.1) 7 meter - Top 70mm and bottom 130mm dia	Nos.	0.824	12420	,10,234	
47.00	Supplying and fixing of hot deep Galvanized M.S.Bracket suitable for outdoor luminaries and mounted on Octogonal pole using necessary bolt, nuts etc., complete.  Single arm Bracket with 1000mm standard 40/50mm dia	Nos.	0.824	1919	,1,581	
48.00	Bollard Lights Supply,installation,testing & commissioning of LED Bollard lights prewired with led driver operated on 240V, 50Hz single phase AC supply, compliant to IP 66 protection grade and with all other necessasary components and accessories to finish the job.  (For GardenLighting) 10 - 12W LED light fixture	Nos.	0.700	2205	,1,544	
49.00	Point Wiring, Switch Sockets & Accesories OPEN CONDUIT SYSTEM Supply heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using intverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws 25mm dia 2mm thick	Mtr	4.120	70.0	,,288	
50.00	Point Wiring, Switch Sockets & Accesories OPEN CONDUIT SYSTEM Supply heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using intverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws 32mm dia 2.5mm thick	Mtr	2.060	100.0	,,206	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
51.00	Supply heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends shoild be covered using PVC and enclosures, run with 18SWG GI fish wire wherever necessary 25mm dia 2mm thick	Mtr	2.060	57.0	,,117	
	Supply heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends shoild be covered using PVC and enclosures, run with 18SWG GI fish wire wherever necessary 32mm dia 2.5mm thick	Mtr	2.060	90.0	,,185	
53.00	POINT WIRING USING COPPER WIRE Wiring for light/power circuit using one of FRLS PVC insulated 1100V grade, multistanded copper with low conductor resistance single core in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP-A. 1.5 sqmm	Mtr	45.320	18.6	,,843	
54.00	POINT WIRING USING COPPER WIRE Wiring for light/power circuit using one of FRLS PVC insulated 1100V grade, multistanded copper with low conductor resistance single core in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP-A. 2.5 sqmm	Mtr	28.840	29.2	,,842	
55.00	POINT WIRING USING COPPER WIRE Wiring for light/power circuit using one of FRLS PVC insulated 1100V grade, multistanded copper with low conductor resistance single core in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP-A. 4 sqmm	Mtr	22.660	42.1	,,954	
56.00	SWITCH, SOCKESTS & ACCESSORIES Switch, socket, data & telephone points Supply and flush mounting powder coated/ galvanised metal box suibale for mounting modular switch plated. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 1-3 Way	Each	0.639	91.0	,,58	
57.00	SWITCH, SOCKESTS & ACCESSORIES Switch, socket, data & telephone points Supply and flush mounting powder coated/ galvanised metal box suibale for mounting modular switch plated. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 6 Way	Each	2.225	121.0	,,269	
58.00	Supply and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the the existing metal/PVC box 1 to 3 Module	Each	0.639	109.0	,,70	
59.00	Supply and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the the existing metal/PVC box 6 Module	Each	2.225	173.0	,,385	
60.00	Supply and fixing of modular switch/ socket/ stepped electronic fan regulator/ dimmer/ telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 6 amp one Way	Each	0.103	63.0	,,6	
61.00	Supply and fixing of modular switch/ socket/ stepped electronic fan regulator/ dimmer/ telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 6 amp 3Way Socket	Each	0.103	95.0	,,10	
62.00	Supply and fixing of modular switch/ socket/ stepped electronic fan regulator/ dimmer/ telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 16 Amp one way switch	Each	2.245	114.0	,,256	
63.00	Supply and fixing of modular switch/ socket/ stepped electronic fan regulator/ dimmer/ telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 6/16 Amps Universal Socket	Each	2.245	147.0	,,330	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
64.00	Supply and fixing of modular switch/ socket/ stepped electronic fan regulator/ dimmer/ telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 TV / Telephone Socket	Each	0.536	82.0	,,44	
65.00	Supply and fixing of modular switch/ socket/ stepped electronic fan regulator/ dimmer/ telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 RJ45/IO Outlet	Each	0.536	204.0	,,109	
66.00	GI EARTHING Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	Each	0.288	5308.0	,1,531	
67.00	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	0.041	11794.0	,,486	
68.00	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Metre	10.300	131.0	,1,349	
69.00	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	Metre	0.824	853.0	,,703	
70.00	GI wire Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit sysytem of wiring) using necessary suitable size clamps, nails, guttas/spacers, etc. 8 SWG	Mtr	3.090	19.5	,,60	
71.00	Supply, Installation, testing and commissioning of <b>6W Ceiling Speaker</b> with max 1M/1W 96DB. Frequency response of 80Hz-20KHz with a dispersion angle of 160 deg.		0.268	1780	,,477	
72.00	Supply, Installation, testing and commissioning of 15W Wall mount Horn Speaker	No	0.041	10132	,,417	
73.00	Supply, Installation, testing and commissioning 2Core, 1.5 sq. mm Screened Multi-Stranded, Bare Copper Conductor, PVC Insulated cable as per IS 694-1990		7.210	51	,,368	
74.00	Supplying heavy gauge PVC conduit pipe below mention mm dia and thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc. and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclousers, run with 18 swg fish wire wherever necessasary 25 mm dia 2 mm thick		4.120	70	,,288	
75.00	Supplying, installation, testing & commissioning of intelligent addressable duct detector including suitable Photo detector complete with base as required.	Nos.	0.515	7801	,4,018	
76.00	Supplying, installation, testing & commissioning of response indicator on surface/recessed MS Box having two LED, metallic cover complete with all connections etc as required.	Nos.	0.144	263	,,38	
77.00	Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed tempreature thermistor complete with base as required.	Nos.	0.021	2713	,,56	
78.00	Supplying, installation, testing & commissioning of addressable manual call point complete as required.	Nos.	0.062	3859	,,238	
79.00	Supplying, installation, testing & commisssioning of intelligent addressable programmable sounder complete as required.	Nos.	0.062	2638	,,163	
80.00	Supplying, installation, testing & commissioning of addressable strobe complete as required.	Nos.	0.062	3354	,,207	
81.00	Supplying and erecting UPVC conduit 25 mm in dia. conforming to I.S. with required number of couplings, PVC bushes, check nuts etc. complete.	RM	6.180	58	,,358	
82.00	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath complete as required.  Page 41	DM	7.210	141	,1,017	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
83.00	Supplying and erecting ABC Dry Chemical Powder type Fire extinguisher 4 kg capacity cartridge tyB with gun metal cap 150 gram CO2 gas cartridge powder and brackets conforming to IS 2171-1985 and complete erected with necessary clamps made from 50x6mm MS flat with nuts and bolts grouted in wall complete	Nos.	3.759	4788	,18,000	
84.00	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 rnaking good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Nos.	0.529	4956	,2,624	
85.00	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 15 mm nominal bore	Nos.	0.529	418.95	,,222	
86.00	Providing and fixing <b>Hand shower (health faucet)</b> with 8mm dia. 1m long flexible tube having wall hook with approved make including necessary sockets/ union nut etc. complete as directed by Engineer in charge.	Nos.	0.529	1677	,,888	
87.00	Providing and fixing white vitreous china clay, flat back wash basin size 550x400mm with a pair of15mm 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 size 550 x 400mm	Nos.	0.529	3879	,2,053	
88.00	Providing vitreous china clay toilet paper holder with a pack of papers as per specification	Nos.	0.529	414	,,219	
89.00	Supplying and fixing of <b>UPVC WC connector</b> (straight or bend type) with rubber lip ring. Including 110 mm dia UPVC pipe of required length and proper connection complete as required.	Nos.	0.529	864	,,457	
90.00	Providing gun metal pillar cocks 15mm dia of I class conforming to ISI specifications and fixing them in position as per directions including of cost of materials and fixtures and conveyance to spot	Nos.	0.265	242	,,64	
91.00	Providing and fixing PTMT <b>Waste Coupling</b> for sink, of approved quality and colour. Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms	Nos.	0.529	99.75	,,53	
92.00	Providing and fixing CP Brass 32mm size <b>Bottle Trap</b> of approved quality & make and as per the direction of Engineer-in-charge.	Nos.	0.529	883.05	,,467	
93.00	Providing and fixing 600x450mm <b>bevel Lead edge mirror</b> 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.	Nos.	0.529	1157	,,612	
94.00	Providing and fixing liquid soap glass dispenser and holder as per design.	Pair	0.529	145	,,77	
95.00	INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chorinated 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		4.103	206	,,845	
96.00	INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chorinated 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		0.331	235	,,78	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
97.00	INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chorinated 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	Rmt	3.706	293	,1,086	
00.00	INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chorinated 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.) 32mm nominal OD pipes	Rmt	1.985	374	,,742	
99.00	Providing and fixing gun metal wheel valve conforming to IS specification of approved make as per directions including all lead and lift etc., complete.  15mm dia	Nos.	0.132	395	,,52	
100.00	Providing and fixing gun metal wheel valve conforming to IS specification of approved make as per directions including all lead and lift etc., complete. 20mm dia	Nos.	0.132	414	,,55	
101.00	Providing and fixing gun metal wheel valve conforming to IS specification of approved make as per directions including all lead and lift etc., complete. 25mm dia	Nos.	0.794	447	,,355	
102.00	Providing and fixing gun metal wheel valve conforming to IS specification of approved make as per directions including all lead and lift etc., complete. 32mm dia	Nos.	0.794	486	,,386	
103.00	Providing and fixing gun metal wheel valve conforming to IS specification of approved make as per directions including all lead and lift etc., complete. 40mm dia	Nos.	0.529	562	,,298	
104.00	Providing and fixing gun metal wheel valve conforming to IS specification of approved make as per directions including all lead and lift etc., complete. 50mm dia	Nos.	0.265	734	,,194	
	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required:  50 mm	Set	0.397	3671	,1,457	
	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required: 65 mm	Set	0.066	4149	,,275	
107.00	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required:  50 mm	Set	0.265	2800	,,741	
108.00	Providing, installation, testing and commissioning of Gun metal Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange. 50 mm	Each	0.132	3200	,,423	
109.00	Supplying and installing <b>pressure gauge</b> of 100 mm dia., 0-300 PSI or 0-14 kg per cm square fitted with 12/15 mm dia. pad cock valve, and G.I. pipe, elbow etc. complete as per specification no. FF-FFA/PG	Each	0.132	657	,,87	
110.00	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.  25 mm dia nominal	Nos.	0.331	513	,,170	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
	Supplying Installing, testing and commissioning of Gun metal <b>AIR RELEASE VALVE</b> SIZE OF <b>25mm</b> dia including cost of materials, labour, HOM complete as per specifications.	Nos.	0.265	1875	,,496	
112.00	Providing & fixing PVC Vent Cowl 110 mm	Nos.	0.132	450	,,60	
113.00	Providing & fixing PVC Vent Cowl 65 mm	Nos.	0.132	320	,,42	
114.00	EXTERNAL WATER SUPPLY SYSTEM Providing and fixing in trenches galvanised IS 1239 C classpipe nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications.  50 mm dia	Rmt	1.456	388	,,565	
115.00	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 and testing complete as per specifications.	Set	0.066	1320	,,87	
116.00	INTERNAL DRAINAGE SYSTEM Providing and fixing SWR pipes 6 kg/sq.cm B class working pressure with pipe fittings, support, including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications. IS 13592 do- with 110mm outer dia	Rmt	4.301	750	,3,226	
117.00	INTERNAL DRAINAGE SYSTEM Providing and fixing SWR pipes 6 kg/sq.cm B class working pressure with pipe fittings, support, including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications. IS 13592 do- with 160mm outer dia	Rmt	3.309	1150	,3,805	
	Providing and fixing SS Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M15 as directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).  12.5 cms x 7.5 cms		0.265	1120	,,296	
	Supplying & Fixing in position 100 mm dia <b>UPVC Multi traps</b> 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.	0.596	1520	,,905	
120.00	Providing and fixing PVC Gully Trap as per specification 300 X 300	Nos.	0.199	1150	,,228	
121.00	Inspetion Chamber Constructing brick masonry inspection chamber internal dimensions 450x450mm, (clear inside dimension) for pipeline with three or more inlets, using table moulded non-modular bricks of class designation 50 in cement mortar 1•5, C. I cover with frame (Heavy duty) total weight of cover with frame to be not less than 125 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. (Depth up to 600- 1500 mm)	Nos.	0.066	8900	,,589	
122.00	Constructing brick masonry inspection chamber internal dimensions 450x900mm, (clear inside dimension) for pipeline with three or more inlets, using table moulded non-modular bricks of class designation 50 in cement mortar 1•5, C. I cover with frame (Heavy duty) total weight of cover with frame to be not less than 125 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. (Depth up to 600- 1500 mm)	Nos.	0.397	12500	,4,963	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
123.00	Water Tank Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of high density polythyler and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet,outlet overflow pipe inclusive of all tanks capacity Capacity- 5000 ltr	Unit	0.066	60000	,3,970	
124.00	Pumps Supply, installation, testing & commissioning of Submersible pumps (1 working + 1 standby) with 10 mm thick solid handling capacity. C.I body with built in strainer & SS 304 impeller, coupled to motor suitable for operation on 430 V 3 pH 50 Cycle A/C power supply and lifting arrangement including complete as required.  Automatic Electric control panel with change over switch, relays, electrical wiring, cabling from panel to pumps, level controller complete with all accessories as per manufacturer specifications  Accessories like NRV's valves on discharge and valve and strainer in suction line, header for suction and delivery side, required cut pieces of pipes, fittings, flanges, pressure gauge, base frame and concrete foundation complete as required.  Flow rate : 3 LPS (1 Working +1 Standby)  Head : 35 Mts  Purpose : Water Transfer from UGT to OHT  Location : Underground Tank		0.132	105000	,13,896	
125.00	Variable Refrigerant Flow system VRF UNIT Supply, Installation, Testing & Commisioning of modular type Variable Refrigerant Volume Air Cooled Outdoor Units suitable for cooling and heating, having all hermetically sealed inverter type scroll compressor, minimum two compressors for above 14HP modules , microprocessor based controller , top discharge type condensing units , with R 410A refrigerant , vibration isolators with suitable foundation etc. complete as required. The unit shall deliver the rated capacity at AHRI Conditions & work even at 50 ° C ambient temperature without tripping. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. The unit shall be filled with first charge of refrigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and EER not less than 6.5.	Nos.	0.079	164150	,12,917	
126.00	Supply,installation,testing andcommissioning of following minimum capacity 4 way flow VRV/VRF Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower,multi speed motor, coil section with DX Copper coil, electronic expansion valve,outer cabinet, drain pump,grill, necessary supports, vibration isolation, cordless remote controletc.,suitable for operation on single phase 230V±10%, 50HzAC supply, complete, as required. The units shall have automatic force shutdown provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27Degree C DB and 19 Degree C WB temperature.	Nos.	0.315	31453	,9,900	
	Supplying, installing, testing and commissioning split type variable speed inverter technology room Air conditioning unit <b>2 TR</b> capacity having ISEER minimum 4.50 suitable to operate on 250V, 50 cycles, A.C. supply having 1 no. of air handling unit hi-wall/ floor mounting type complete with Refrigerants R410 A /R32 and copper condenser at position. specification no. APAC/ SAC		0.157	62944	,9,906	
128.00	Supplying, installing, testing and commissioning split type variable speed Inverter technology room Air conditioning unit 1.5 TR capacity having ISEER minimum 4.50 suitable to operate on250V, 50 cycles, A.C. supply having 1 no of air handling unit hiwall / floor mounting type complete with refrigerant R410 A/R32 and copper condensor at position. specification no.APAC/SAC		0.079	51676	,4,066	
	Supply, installation, testing and commissioning of copper conductor 2C*1.0 sqmm Control cabling with PVC conduit from indoor to outdoor unit.	Rmt	3.148	312	,,982	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
130.00	Refnets for VRV System (To be supplied by unit manufacturer) Vendor is expected to minimise no. of joints that is required for a complete installation.	Nos.	0.236	2550	,,602	
131.00	Supply, installation, testing and commissioning of interconnecting Copper Refrigerant piping between indoor and outdoor unit of VRF system along with Insulation & all accessories like, T, Bend, Elbows. Piping shall be properly Clamped / Installed on Ceiling / Wall by providing Gl angle, bracket, threaded support, nut, washer etc., complete piping shall be pressure tested. Insulation of Refrigerant Piping shall be with 19 mm thick nitrile rubber Thermal Insulation. All joints shall be ceiled with good quality adhesive. All piping inside the room will be properly supported with hanger and all external pipe with proper supports and fittings Final sizes of Copper Piping sizes shall be as per selected OEM's Requirement. HVAC Contractor shall prepare the shop drawing for Cu Piping Scheme, which would require final approval from Consultant / Architect, prior to procurment & execution.	Rmt	4.722	1202	,5,675	
132.00	Supply, installation, testing and commissioning of interconnecting Copper Refrigerant piping between indoor and outdoor unit of VRF system along with Insulation & all accessories like, T, Bend, Elbows. Piping shall be properly Clamped / Installed on Ceiling / Wall by providing GI angle, bracket, threaded support, nut, washer etc., complete piping shall be pressure tested. Insulation of Refrigerant Piping shall be with 19 mm thick nitrile rubber Thermal Insulation. All joints shall be ceiled with good quality adhesive. All piping inside the room will be properly supported with hanger and all external pipe with proper supports and fittings Final sizes ,of Copper Piping sizes shall be as per selected OEM's Requirement . HVAC Contractor shall prepare the shop drawing for Cu Piping Scheme ,which would require final approval from Consultant / Architect ,prior to procurment & execution .	Rmt	4.722	847	,3,999	
133.00	Supply, installation, testing and commissioning of drain piping using UPVC pipe SCH40 with UPVC fittings and insulated with 6mm thick nitrile rubber o class insulation finished with polished. The pipe goes below ground should be rapped with polythene sheet as follows:  40 mm Dia	Rmt	0.992	447.2	,,443	
134.00	Supply, installation, testing and commissioning of drain piping using UPVC pipe SCH40 with UPVC fittings and insulated with 6mm thick nitrile rubber o class insulation finished with polished. The pipe goes below ground should be rapped with polythene sheet as follows:  32 mm Dia	Rmt	1.715	343.2	,,589	
135.00	Supply, installation, testing and commissioning of drain piping using UPVC pipe SCH40 with UPVC fittings and insulated with 6mm thick nitrile rubber o class insulation finished with polished. The pipe goes below ground should be rapped with polythene sheet as follows:  25 mm	Rmt	1.653	215	,,355	
136.00	CABLE TRAY/ SUPPORTS/ ENCLOSURE / SLEEVES FOR / REFRIGERANT PIPING / CABLING Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. 450 mm width X 50 mm depth X 2.0 mm thickness	Rmt	2.518	1213	,3,055	
137.00	CABLE TRAY/ SUPPORTS/ ENCLOSURE / SLEEVES FOR / REFRIGERANT PIPING / CABLING Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. 300 mm width X 50 mm depth X 1.6 mm thickness	Rmt	0.630	875	,,551	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
138.00	CABLE TRAY/ SUPPORTS/ ENCLOSURE / SLEEVES FOR / REFRIGERANT PIPING / CABLING Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. 225 mm width X 50 mm depth X 1.6 mm thickness	Rmt	2.203	811	,1,787	
139.00	MS FRAME STRUCTURE Supply, fabrication and installation of <b>MS base frame for outdoor units</b> complete with 2 coat of epoxy painting, vibration isolation pads, supports, hangers, railing, brackets etc. For construction Construction as approved by Architect/ Consultant. Apply 2 coats of epoxy primer 2 coats of epoxy paint and finish painting as approved by Architect. Stand to be made as per site conditions.	Kg	0.630	265	,,167	
140.00	Ducting Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required. Thickness 0.63 mm sheet (24 gauge)	Sqmtr.	3.935	983	,3,868	
141.00	Supplying and erecting aluminium powder coated grill of suitable size for width length without collar dampers having matching colour with the existing false ceiling	Sqmtr.	0.157	1800	,,283	
142.00	Supply, installation, testing and commissioning of flexible duct 50 mm dia	Sqmtr.	0.630	884	,,557	
143.00	Supply and Installation, testing, commissioing of Underdeck Insualtion with 25 mm thk Fire retardent Glass wool rigid boardcovered with R P tissue paper & 30 mm gauge perforated aluminium clading, density 80 kg/cu.m sheet all joints for fixing and GI screws	Sqmtr.	20.066	700	,14,047	
144.00	VENTILATION SYSTEM FOR TOILET Supply and Installation, testing, commissioing of Propeller type wall mounted fan with louver, cowl and bird screen on outside. 50 cms	Nos.	0.472	1950	,,921	
145.00	Supply and Installation, testing, commissioing of axial type cabinet fresh air fan with cowl and bird screen on outside 300 cms	Nos.	0.079	4200	,,331	
			Total		,2,09,433	

Assistant Engineer MSCL Mangaluru

Assistant Executive Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

General Manager Technical

MSCL Mangaluru

	BOQ of UPOR - Civil Work									
Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks				
1.00	KSRRB M200-11.1. Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removalof stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications and as directed by engineer in charge.  II. By Mechanical Means: A. In area of light jungle.  MORTH Specification No. 201  (KPWD 18-19,SI.No.18.15)	На	1.22	20378.60	24,862					
2.00	KSRRB M200-12.1. <b>Dismantling of existing structures</b> 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 and as directed by engineer in charge.  i) Lime /Cement Concrete. I. By Manual Means: A. Lime Concrete, cement concrete grade M-10 and below.  MORTH Specification No. 202  (KPWD 18-19,SI.No.18.17)	Cum	10.00	499.40	4,994					
3.00	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications and as directed by engineer in charge. iii) Dismantling Stone Masonry.  MORTH Specification No. 202  KSRRB M200- 15.2. do- B. Rubble stone masonry in cement mortar.  (KPWD 18-19,SI.No.18.27)	Cum	50	386.1	19,305					
4.00	KSRRB M200-32. Removal of Telephone /Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and stacking the serviceable and unserviceable material separatelycomplete as per specifications.  MORTH Specification No. 202 (KPWD 18-19,SI.No.18.57)	Nos	5.00	238.70	1,194					
5.00	KSRRB M200-14.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications and as directed by engineer in charge.  KSRRB M200-14.2. do- Dismantling brick/Tile work B. In cement mortar.  (KPWD 18-19,SI.No.18.23)	Cum	5.00	386.10	1,931					

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
6.00	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iKSRRB M200-17.1. do- v) Steel work in all types of Sections upto a Height of 5 m above plinth level excluding Cutting of Rivet A. Including dismembering." (KPWD 18-19,Pg.No.140,Sl.No.18.33)	МТ	13.00	2082.30	27,070	
7.00	<b>Dismantling doors, windows</b> and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking as directed by Engineer in charge with all leads and lifts. Of area 3 sq. metres and below (CPWD 2018 15.12.1)	Nos.	4.00	274.50	1,098	
8.00	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance 10km (within average thickness of 15 ems). including cost of materials, labour, HOM complete as per specifications. (KPWD 18-19,SI.No.37.51)	Sqm	50.00	94.60	4,730	
9.00	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material as directed by engineer in charge with all leads and lifts. 15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)	Sqm	280.00	121.90	34,132	
10.00	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA attached)	Sqm	1792.00	74.98	1,34,364	
11.00	Earth work excavation for foundation of structures upto 3 mtrs. by mechanical means as per drawing and technical specification, including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilising I transporting the remaining earth upto 1.00km lead. including cost of labour, materials and HOM etc., complete. do-In all types of soils (KPWD 18-19,SI No.2.23.1,Pg.No.8)	Cum	1445.69	57.20	82,693	
12.00	Earth work excavation for foundation of structures upto 3 mtrs. by mechanical means as per drawing and technical specification, including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilising I transporting the remaining earth upto 1.00km lead. including cost of labour, materials and HOM etc., complete.do- Soft rock/ordinary rock (without blasting) (KPWD 18-19,SI No.2.23.2,Pg.No.8)	Cum	168.66	73.70	12,430	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
10.00	Earthwork in excavation for foundation of structures by Mechanical means as per drawing and technical specification including setting out construction of shoring, strutting, barricading, danger light, bracing, removal of slumps and other deterious 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. (Depth upto 3m).  Hard Rock-Any rock Excavation by using mechanical plants/machinary (KUWSDB 18-19, SI.No.vii.1c, Pg.No.7)	Cum	84.33	744.70	62,801	
14.00	KSRB 2.3: <b>Filling available excavated earth</b> (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 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)	Cum	620.26	221.10	1,37,139	
15.00	Providing Muram/Gravel Bedding for the pipeline trenches/ at Plith below grade slab, 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 18-19, Pg No.9,SI No.6.2	Cum	53.61	284.90	15,272	
16.00	KSRB 2.8: <b>Providing and Filling in foundation with granite</b> / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS (KPWD 18-19,SI.No.2.15,Pg.No.7)	Cum	139.98	2795.10	3,91,247	
17.00	KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines and grades and cross sections,and transporting disposal location up to a lead of 5.00Km and complete as per specifications.  MORTH specification No.301(Including transporting charges, loading and unloading for lead 5km) (Page No 143,SI No : 19.14)	Cum	1195.60	45.10	53,922	_
18.00	KSRRB M300-55. <b>Construction of sub-grade</b> transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications, including cost of earth, watering charges & compaction by vibratory roller to 97% of modified proctors density) MORTH Specification No. 305 (KPWD 18-19,SI.No.19.62,Pg.No.147)	Cum	610.00	620.62	3,78,578	
	KSRRB M400-6.2. Construction of granular sub base by providing close graded crushed stone aggregate of granite/trap/basalit material, spreading in uniform layers with motor on prepared surface, mixing by mix in place methode by rotavator at OMC, and compacting with vibratory power roller to achieve the desired density, complete as per specification. B.By Mix in Place Methode.  Close graded granular sub base material as per 400-1  For Grading II material (Page No 155, SI No : 20.5.2)	Cum	183.00	2382.60	4,36,016	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
20.00	KSRRB M600-1.Construction of <b>dry lean cement concrete</b> mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum vibratory roller,finishing and curing complete as per specifications.Morth specification No.601 (SI No: 22.1.1 of KPWD 18-19)	Cum	122.00	4452.80	5,43,242	
21.00	KSSRRB M600-2.Construction of unreinforced,dowel jointed, plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design,transported to site, laid with a fixed form or slip form paver spread, compacted and finished in a continuos operation including provision of contraction, expansio, construction and longitudinal joints, including groove cutting chrges, joints filler, separation memberane, sealent primer, joints sealant, debonding strip, dowel bars at 4.5m intervals, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per sprcifications MORTH specification No.602.do with M40 (420Kg per cum Cement, C.A, 0.67 cum F.A.044Cum (Page No 176, Sl No : 22.2.2)	Cum	280.60	6341.50	17,79,425	
	Providin and fixing pre cast solid concrete Kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively,400mm high and 450mm in length finished with CM 1:3 Plastering and finishing cutting, including cost of all materials,labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc.,complete (Page No 25,SI No : 5.3)	Rmt	1300.00	463.10	6,02,030	
23.00	KSRRB 800-1. <b>Painting two coats</b> after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per MORTH specifications section 8. (SI No : 24.1 of KPWD 18-19)	Sqm	474.50	88.00	41,756	
	KSRRB M800-29.3. Cable Duct Across the road KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings complete as per specifications. Case-III: Triple row for three utility services. ( PWD SR 2018-19,SI.No.24.36)	Rmt	45.00	5524.20	2,48,589	

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)  KSRB 4-1.6; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (KPWD 18-19,SI No.4.6.2,Pg.No.13)  KSRB-3.2: Providing and injecting chemical emulsion for Preconstructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of the blinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of the building at ground floor only shall be measured) Specification No. KBS: 3.2.6 1.3.2.7  (KPWD 18-19,S.I. No.3.2)  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 @ 0.70 cum and fine aggregates @ 0.70 cum and flow orks in foundation for footings.  Specification No. KBS 4.1, 4.6  (KPWD 18-19,SI No.4.10,Pg.No.14)  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 c	Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (KPWD 18-19,SI No.4.6.2,Pg.No.13)  KSRB-3.2: Providing and injecting chemical emulsion for Preconstructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration at 3.19 Litr/sgm, including cost of chemical, diluting in water to one percent concentration, labour, HOM complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KBS: 3.2.6.13.2.7 (KPWD 18-19,S.I. No.3.2)  KSRB 4.2.1 Providing and laying in position reinforced cement concrete laid in layers not exceeding 15 ems thick, vibrated for all works in foundation for footings, petasticisers@ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 ems thick, vibrated for all works in foundation for footings, postaslas, retaining walls, return walls, walls (any thickness) including attached pilasters, columns pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (KPWD 18-19,SI No.4.10,Pg.No.14)  KSRB 4.2.7 Providing and laying in position reinforced cement concrete laid flows and the position reinforced cement concrete laid in layers not exceeding 15 ems thick, with the provided proper plasticisers	25.00	providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material (RA	Cum	337.71	2640.00	8,91,554	
constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration at 3.19 Litre/sqm., including cost of chemical, diluting in water to one percent concentration, labour, HOM complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KBS: 3.2.6 I 3.2.7 (KFWD 18-19.S.I. No.3.2)  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 aggregtes @ 0.47cum, with super plasticisers@ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 ems thick, vibrated for all works in foundation for footings, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of all materials, labour, HOM curing, complete but excluding cost of all materials, labour, HOM curing, complete but excluding cost of all materials, labour, HOM curing, complete but excluding cost of all materials, labour, HOM curing, complete but excluding cost of elimorcement as per specifications. Specification No. KBS 4.1, 4.6 (KPWD 18-19,SI No.4.10,Pg.No.14)  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 confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 ems	26.00	concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum	157.72	6490.00	10,23,593	
cement concrete of Design Mix M25 with OPC@ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers@ 3 liters confirming to IS 9103-1999 reafirmed-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,SI No.4.10,Pg.No.14)  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 aggregtes @ 0.47cum, with super plasticisers @ 31ts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 ems	27.00	constructional <b>Anti-Termite Treatment</b> , creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration at 3.19 Litre/sqm., including cost of chemical, diluting in water to one percent concentration, labour, HOM complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KBS: 3.2.6 I 3.2.7	Sqm	234.69	115.50	27,106	
cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with super plasticisers @31ts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 ems	28.00	cement concrete of Design Mix M25 with OPC@ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers@ 3 liters confirming to IS 9103-1999 reafirmed-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	Cum	176.53	6817.80	12,03,514	
slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintles, 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, 4.6 (KPWD 18-19,SI.No.4.12,Pg No.14)	29.00	cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70cum and fine aggregtes @ 0.47cum, with super plasticisers @31ts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 ems 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, lintles, 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, 4.6					

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
	Ground Floor	Cum	51.77	7074.10	3,66,203	
	First Floor Beam,Column,Slab	Cum	43.60	7140.10	3,11,309	
	Second Floor Beam and Column	Cum	91.46	7206.10	6,59,060	
	Terrace Floor	Cum	61.16	7272.10	4,44,793	
30.00	Providing and laying M25 grade RCC jacketing work around the existing column including chipping of existing column,applying epoxy as a bonding agent between old concrete and new concrete and required shuttering work,curing, including cost of all material and labour etc. Complete.(Note:Reinforcementsteel will be pais separetaly) (RA Attached)	Cum	15.11	15658.05	2,36,655	
31.00	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for <b>foundations, footings</b> , bases of columns for mass concrete including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.28,Pg No.16)	Sqm	1230.08	289.30	3,55,862	
32.00	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for <b>sides and soffits of beams</b> , beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.34,Pg No.17)					
	Plinth Beam	Sqm	138.31	321.20	44,426	
	First Floor Beam	Sqm	44.16	321.20	14,184	
	Second Floor Beam	Sqm	240.43	321.20	77,227	
	Third Floor	Sqm	594.33	321.20	1,90,899	
33.00	KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for <b>columns</b> , pillars, post and struts, square I rectangular/ polygon in plan including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.32,Pg.No.16)					
	Foundation to Plinth and Plinth to First Floor	Sqm	301.64	501.60	1,51,305	
	First Floor to Second Floor	Sqm	249.91	501.60	1,25,356	
	Second Floor to Roof	Sqm	118.37	501.60	59,373	
34.00	KSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal of formworkfor suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications.  Specifications No. KBS 4.6.2. do 0 to 5 mts (KPWD 18-19,SI.No.4.29.2,Pg.No.16)					
	First Floor Slab	Sqm	52.85	448.80	23,720	
	Second Floor Slab	Sqm	50.54	448.80	22,683	
	Third Floor	Sqm	297.94	448.80	1,33,716	
35.00	KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for <b>Stairs</b> (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.38,Pg.No.17)					
	Second Floor	Sqm	22.87	617.10	14,115	
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Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
36.00	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for <b>chajja</b> , corbels etc., including edges including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,Sl.No.4.37,Pg.No.17)					
	Second Floor	Sqm	60.06	361.90	21,736	
37.00	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached	Sqm	218.88	397.10	86,917	
37.00	pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2	Oqiii	210.00	337.10	00,017	
38.00	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 I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500  (KPWD 18-19,SI.No.4.46.2,Pg No.18)					
	Ground Floor	MT	24.31	77860.20	18,92,406	
	First Floor	MT	5.21	78681.90	4,10,281	
	Second Floor	MT	9.32	79503.60	7,41,197	
	Third Floor	MT	6.40	80325.30	5,14,367	
39.00	Providing fusion bonded epoxy coating not less than 175 microns thickness and upto 300 microns to reinforcement of all diameters as per IS: 13620-1993 including testing of coating at plant The rate isinclusive of cost on account of careful handling, PVC coated binding wire instead of GI Binding wire, touch up material supplied by coating agency, repair work, loading, unloading and straightening of bent rods etc., complete as per specification and as directed by the Engineer in charge.  do For 10mm to 16mm dia bars  (KPWD 18-19,SI.No.7.21.1,Pg.No.40)	МТ	45.25	11588.50	5,24,333	
40.00	Structural steel work riveted, bolted or welded in built up sections,trusses and framed work, including cutting, hoisting, fixing in position and applying,priming coat of approved steel primer all complete.  (CPWD 2018,SI.No.10.2,Pg.No.183)	MT	2.24	101750.00	2,27,920	
41.00	Refixing the existing Structural steel (Roof Truss) work riveted, bolted or welded in built up sections, trusses andframed work, including cutting, hoisting, fixing in position and applying a primingcoat of approved steel primer all complete (Rate Analysis)	Kg	7280.00	20.40	1,48,512	
42.00	Fixing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. (Rate Analysis)	Sqm	270.00	188.00	50,760	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
43.00	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.  1.00 mm thick with zinc coating not less than 275 gm/m² (CPWD)	Sqm	88.00	1234.25	1,08,614	
	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. KBS  KSRB 14.6-1: do- heavy duty cobble stones 60mm thick (KPWD 18-19,SI.No.14.6,Pg.No.103)	Sqm	1078.40	1161.60	12,52,669	
45.00	Providing and laying eco-loc permeable pavers,80mm or equivalent 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.	Sqm	1173.00	2073.00	24,31,629	
46.00	Providing and fixing 15cm wide,45cm overall <b>semi circular plain GS Sheet gutter</b> with iron brackets 40 x 3mm size,bolts,nuts and washers etc, including making necessary connections with rain water pipes complete, 0.8mm thick with zinc coating not less than 275gm/m2 (CPWD 2018,SI.No.12.7.1,Pg.No.211)	Rm	40.00	765.00	30,600	
47.00	Providing and fixing unplasticised <b>PVC pipes</b> with working pressure 10 kg/sq.cm with pipe fittings, clips, making good the floor, including cost of all materials, labour charges, HOM and testing complete as per specifications. do- with 160mm outer dia KPWD 18-19,SI.No.11.56.4,Pg.No.77	Rm	137.50	1377.20	1,89,365	
48.00	Providing and constructing <b>Laterite size stone masonry</b> including cost and conveyance of all materials curing etc complete as per specification. I.S. 3620/1979 having compressive strength not less then 3.5 N/mm2 for saturated dry samples.  For basement in CM 1:6 (Cement 45 kgs/M3) (KPWD 2018-19,42.5.1)					
а	Plinth Masonary	Cum	119.83	3,499.10	4,19,297	
b	For super structure in CM 1:6 (Cement 45 kgs/M3)- Ground Floor (KPWD 2018-19,42.5.3)	Cum	125.25	3,730.10	4,67,195	
С	For super structure in CM 1:6 (Cement 45 kgs/M3)- First Floor (KPWD 2018-19,42.5.3)	Cum	4.14	4,073.30	16,863	
d	For super structure in CM 1:6 (Cement 45 kgs/M3)- Second Floor (KPWD 2018-19,42.5.3)	Cum	71.15	4,416.50	3,14,246	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
49.00	Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete) Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of 3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. with 600x200x150mm size Blocks (KPWD 18-19,SI.No.6.32.2,Pg.No.31)					
	Ground Floor	Sqm	8.94	1,504.00	13,446	
	First Floor	Sqm	19.28	1,661.00	32,024	
	Second Floor	Sqm	14.56	1,667.60	24,280	
	Third Floor	Sqm	3.62	1,674.20	6,061	
50.00	Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete) Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. with 600x200x230mm size Blocks (KPWD 18-19,SI.No.6.32.4,Pg.No.31)					
	Ground Floor	Sqm	13.07	2,066.00	27,003	
	First Floor	Sqm	21.72	2,279.20	49,504	
	Second Floor	Sqm	59.67	2,285.80	1,36,394	
	Third Floor	Sqm	32.58	2,292.40	74,686	
51.00	<b>coat</b> with cement mortar to brick masonry including rounding off corners wherever required srnooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. do- cement mortar 1:4 (KPWD 18-19,SI.No.15.13,Pg.No.115)					
	i) Ground Floor	Sqm	117.43	244.20	28,676	
	ii) First Floor	Sqm	113.40	250.80	28,441	
	iii)Second Floor	Sqm	345.28	257.40	88,875	
	iv)Third Floor	Sqm	88.56	264.00	23,380	
52.00	KSRB15-5: Providing rough cement plastering 15mm thick in single coat with cement mortar to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)	94	-5.50		23,000	
	i)Ground Floor	Sqm	113.39	213.40	24,197	
	ii) First Floor	Sqm	113.39	220.00	24,946	
	ii)Second Floor	Sqm	205.74	226.60	46,621	
53.00	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification.  (KPWD 18-19,SI.No.15.106,Pg.No.128)	- 1				
	i) Ground Floor	Sqm	117.43	85.80	10,075	
	ii) First Floor	Sqm	113.40	92.40	10,478	
	iii)Second Floor	Sqm	345.28	99.00	34,183	
	iv)Third Floor	Sqm	88.56	105.60	9,352	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
54.00	KSRB15-3: Providing <b>12mm thick cement plaster in single coat</b> with cement mortar, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification. do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)					
	Ground Floor	Sqm	101.00	248.60	25,109	
	First Floor	Sqm	98.00	255.20	25,010	
	Second Floor Ceiling	Sqm	280.00	261.80	73,304	
55.00	KSRB15-3: Providing <b>18mm thick cement plaster in single coat</b> with cement mortar 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. do - cement mortar 1:4 (KPWD 18-19,SI.No.15.16,Pg.No.116)	Sqm	1276.32	288.20	3,67,835	
56.00	Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all mateirals, mortar, labour, etc, Complete as per specification. (KPWD 18-19,SI.No.14.45,Pg.No.109)					
	Ground Floor	Sqm	48.40	1,240.80	60,055	
	First Floor	Sqm	46.48	1,243.00	57,775	
	Second Floor	Sqm	235.35	1,245.20	2,93,058	
	Terrace Floor	Sqm	245.85	1,247.40	3,06,673	
57.00	KSRB 14.14-5: Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1 3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,Sl.No.14.36.2,Pg.No.108)					
	Ground Floor	Sqm	12.10	1,332.10	16,118	
	First Floor	Sqm	10.50	1,334.30	14,010	
	Second Floor	Sqm	10.50	1,336.50	14,033	
58.00	KSRB 14.3 Providing and laying flooring and steps machine cut granite slabs 40mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed, including cost of materials, mortar, labour, curing complete as per specifications.  Specification No. KBS 14.26	Sqm	20.18	2,764.30	55,784	
59.00	Providing and fixing <b>colour glazed tiles</b> of size 300mmx600mm <b>for walls</b> with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing, cleaning including providing and removing scaffolding wherever necessary etc., complete. The work includes cost of all materials, mortar, labour charges for all items of work, hire charges for equipment etc., complete as per specification. (KPWD 18-19,SI.No.14.64,Pg.No.112)					
	Ground Floor	Sqm	113.39	1,334.30	1,51,296	
	First Floor	Sqm	113.39	1,336.50	1,51,546	
	Second Floor	Sqm	113.39	1,338.70	1,51,795	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
60.00	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,scaffoldingetc. and complete.	Sqm	72.88	2,500.75	1,82,255	
61.00	Providing and fixing of wall cladding using 20 mm thick gang saw water cut granite in CM 1:3 proportion cut to required shape patron with paper joint finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in JOints including cost of all materials, mortar, labour, curing etc., complete as per specification. do- with grey granite 20mm thick gang saw with minimum width 1200 mm					
	Ground Floor	Sqm	7.98	2,692.80	21,489	
	First Floor	Sqm	7.98	2,694.80	21,505	
	Second Floor	Sqm	7.98	2,696.80	21,520	
	Third Floor	Sqm	7.98	2,698.80	21,536	
62.00	Providing and laying platform using prepolished, water cut I gang saw 40mm thick telephonic Black Granite. Iaid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in JOints including cost of all materials, mortar, labour, curing etc., complete as per specification. (KPWD 18-19,SI.No.14.52,Pg.No.110)					
	Ground Floor	Sqm	1.43	3,877.50	5,525	
	First Floor	Sqm	2.48	3,879.50	9,631	
	Second Floor	Sqm	2.48	3,881.50	9,636	
63.00	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.do- with primer (KPWD 18-19,SI.No.15.51.2,Pg No.119)	Sqm	801.20	99.00	79,319	
64.00	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications. (KPWD 18-19,SI.No.15.103,Pg No.127)	Sqm	2423.31	374.00	9,06,316	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
	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 grouting a slurry coat of neat cement using 2.75 kglsqm of cement admixed with proprietary water proofing compound conforming to 18:2645 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 18:2645 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 lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick joint less cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications. (KPWD 18-19,SI.No.10.2,Pg.No.68)	Sqm	260.40	1112.10	2,89,591	
66.00	Waterproofing of RCC Terrace I podium slab I toilet I utilities I water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks I construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates@ 040 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 silanollinear copolymer@ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic I styrene I butadiene & cement in the ratio of 1:0.1, @ 0.50kglsqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification (KPWD 18-19,SI.No.10.5.1,Pg.No.69)	Sqm	36.30	578.60	21,003	
67.00	KSRB 9.4-1: Providing wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM complete as per specifications.  Specification No. KBS 9.33KSRB 9.4-3: -do - Mathi I Nandi wood frames (KPWD 18-19,SI.No.9.12,Pg.No.53)	Cum	0.26	1,12,357.30	28,914	
68.00	KSRB 9.5: Providing and fixing in position fully panelled wood shutters for doors, with styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM complete as per specifications. (excluding cost of fixtures)  Specification No. KBS 9.34KSRB 9-6.3:do- MathiiNandi wood styles and rails of 35mm thick (KPWD 18-19,SI.No.9.19,Pg.No.53)					
	Ground Floor	Sqm	8.82	5,517.60	48,665	
	First Floor	Sqm	8.82	5,522.00	48,704	
	Second Floor	Sqm	6.30	5,526.40	34,816	
	Terrace Floor	Sqm	5.04	5,530.80	27,875	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
69.00	SOLID PANEL PRELAM PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Prelam Panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for styles and 15x15mm for top & bottom rails, covered with heat moulded Prelaminated PVC C Channel of 5mm thick sheet & 30x50mm wide to form styles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S. frame, Sealed to the styles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm. Aluminium hinges.do- with both side prelam (KPWD 18-19,SI.No.9.85,Pg No.60 & 61)					
	Ground Floor	Sqm	3.78	4,120.60	15,576	
	First Floor	Sqm	3.78	4,125.00	15,593	
	Second Floor	Sqm	7.56	4,129.40	31,218	
70.00	Frames factory manufactured in separate parts and assembled at bolt nuts system with mechanical table vibrating as per IS 6523-1983 with using M25 concrete as per IS 456 with a cross section of 60 mm x 100 mm reinforced with 1.70 kg of TMT steel reinforced with 3 Nos. of 6 mm dia Main TMT bars and 6 mm Dia TMT stirrups welded at 40 em c/c in triangle shape per meter length of door frames, including cost of steel and fabrication charges having 3/4 No. Stainless Steel hinges plate attachment made of 165 mm x 25 mm x 2.5 mm Stainless Steel Flat welded with required iron rods and flats with drilling for fixing flat CSK Head Machine screws and nut made out of 304 grade stainless steel screws, nut and MS square nut of size 8 x 8 square and length 10 mm and making necessary provision in concrete for fixing aldrops, tower bolts and hold fasts etc., complete including two coats of oil based enamel primer providing without cill for shutter thickness upto 30 mm, 21 days tank immersed curing including cost of labour, materials, HOM etc., complete excluding the cost of door Fixtures as per the direction of Engineer (KPWD 18-19,SI.No.9.98,Pg.No.63 & 64)					
	Ground Floor	Rmt	9.90	980.10	9,703	
	First Floor	Rmt	9.90	984.50	9,747	
	Second Floor	Rmt	19.80	988.90	19,580	
71.00	Providing and fixing Single shutter glass door of 12mm thick plain toughened glass. The door is fixed by using any approved make hardware fitting like patch fitting, pivot, floor machine, locking arrangements and suitable SS door rails with floral glass etching for 1/3 portion of door area etc complete. The rate includes cost of all materials, labour, hire of tools & machineries, and as per specification.	Sqm	20.16	9,828.50	1,98,143	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
72.00	Providing and fixing of Louvered ventilator made out of multi chambered UPVC (Matching to RAL-9016) sections and with minimum TiO2 (Titanium Dioxide) at 6PHR with TPV (Thermo plastic Vulcanized) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver Clip in Aluminium (Powder Coated in white) will be used on the frame along with plastic parts of fixing the 4mm pin head glass. Wall thickness of frame shall be 2mm. Maximum possible size - 1000mm x 1000mm (KPWD 18-19, SI.No.38.44.2, Pg.No.308)	Sqm	6.75	3,995.20	26,968	
73.00	Providing and fixing 304- grade stainless steel hand rails of 14-gauge pipes for Ramps staircase made out of stainless steel hallow pipes, using 50mm dia for verticals @1.60 mtr c/c fixed to the ramps or steps by drilling with bolts and 100mm dia MS base plates 10mm gauge for fixing of Vertical pipes 4 - Nos anchor bolts & 40mm dia pipes fixed horizontally for 2-rows top, one pipes fixed with vertical pipes another one fixed with elbows and 25mm dia pipes are fixed horizontally for 2-rows below top measure@ equal intervals including cutting, welding, bending wherever necessary with suitable caps @ tops, bottoms & corners finishing with mat I shining etc., complete including cost and conveyance of all materials, labour for all items of work, HOM with all lead and lift, loading and unloading, transportation charges and all other incidental charges etc., complete as per specification and directions of the Engineer-in-charge of the work. Ramps or Staircase for physically challenged. (KPWD 18-19,Sl.No.7.39,Pg.No.45)	Sqm	19.20	5,910.30	1,13,478	
74.00	Providing and fixing M.S. Hand railing for Balcony/Staircase etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing.	Sqm	38.00	3,124.00	1,18,712	
75.00	Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)	Kg	1,152.00	44.00	50,688	
	KSRB 8.7-5: Providing and fixing in position 12mm thick plaster of paris (Gypsum anhydrous) for ceiling reinforced with hessian cloth flat surface with ceiling tiles up to a height of 5 m above floor level over aluminium strips 25mm x 6mm and rendered smooth with plaster of paris including cost of materials, labour, curing complete as per specifications.  KPWD 18-19,SI.No.8.24	Sqm	485.00	1,283.70	6,22,595	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
77.00	KSRB 1.11: Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26. 7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar. do- using aluminium section anodized to 12-15 microns.					
	Ground Floor	Sqm	6.84	4,785.00	32,729	
	Second Floor	Sqm	27.00	4,798.20	1,29,551	
78.00	Providing, fabricating, assembling and fixing in position Aluminium partition using 101.60mm x 44.45mm x 3.18mm aluminium, mat finish or glossy finish, anodized sections combination of plain, single groove and double groove members should not exceed 0.60mc/c and bottom member of required lengths, joints mitred and corner grinded sub dividing assembled frame should be stiffened with corner angles. Stripped and fixed with screws rawl plug and teakwood guttas to RCC column or masonry on sides. RCC lintels or beams at top and mosaic floor at bottom; including cutting chistelling and making good with cement mortar to match the surface. Providing and fixing 12mm. thick prelaminated sheet (Ecoboard - exterior grade) of approved colour for bottom panel of maximum height 0.9m, and 5.50 mm thick plain or pin headed glass for middle panel and top panel with glazing clips pi 19.05mm.x17.30mm.1.00mm.	Sqm	287.71	2,860.00	8,22,856	
	All the aluminium sections used should be treated for removal of any rust and prevention of further rust formation and coated with greasy materials for non adherence of mortar or any other sticky materials: The vertical members should be embedded in the flooring by making suitable size holes and fixing with cement mortar. All the frame should be thoroughly cleaned free from rust, scale or dirt. work should be carried out as per direction of engineer-in-charge of the work with all lead and lift as per Chief Architect's drawing etc., complete to a degree of perfection.  do- using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality.					
79.00	Providing and Fixing Handcarving Cornice and Bracket made up of Burma Wood as per the drawings and as instructed by Architect.	Sqm	4.00	6,994.00	27,976	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
80.00	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size ), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits. 50 mm thick (CPWD 2018,SI.No.5.18.1,Pg.No.98)	Sqm	20.00	1,474.05	29,481	
81.00	Structural Glazing Works					
81.01	Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474,including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account). The weight of aluminium extruded section shall be taken for purpose of payment.	Kg	840.00	370.45	3,11,178	
81.02	Double Glazing Grid: Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:  (a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including:	Sqm	168.00	2,949.30	4,95,482	
	(b)Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimentional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon seperator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers.  (c)Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass.					

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
	(d)Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight (e)Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporatingprinciples of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer,					
	dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer- in-Charge					
	Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this subhead. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be measured in sqm. up to two decimal places.  Note:-2. The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accreditated by NABL(National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. Cost of testing is payable separately. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NABL accredited lab or by any other accreditation body which operates in accordance with ISO / IEC 17011 and accredits labs as per ISO/ IEC 17025.					

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
	1. Performance Laboratory Test for Air Leakage Test (-50pa to -300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr 2. Static Water Penetration Test. (50pa to 1500p) as per ASTME-331-09 testing method for a range up to 2000 ml. 3. Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml 4. Structural Performance Deflection and deformation by static air pressure test (1.5 times design wind pressure without any failure) as per ASTME-330-10 testing method for a range upto 50 mm 5. Seismic Movement Test (upto 30 mm) as per AAMA 501.4- 09 testing method for Qualitative test, Tests to be conducted on site. 6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000 ml					
81.03	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthned clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor.	Sqm	168.00	3,250.95	5,46,160	
	(Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.25.2) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.					
82.00	Providing and Fixing <b>SS 304 Outdoor Dustbin</b> (Pivoted Type and Mounted on SS Poles) of 55 liters capacity all complete to the satisfaction of the Engineer in charge. (NON SOR Item)	Nos.	5.00	7,500	37,500	
83.00	Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streak and holes complete as per specifications. MORTH specification No.803 (KPWD 18-19, SI No: 24.15)	Sqm	168.30	472	79,421	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
84.00	Fabricating, providing and erecting in poiston of M S Ornamental security Grill Gate/Fencing on compound wall without hot dip using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for suqare bars of full height and at 8cms C / C for bottom rods providg ornamental C I Designers at the botom and C I arrows inthe midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drillling holes. the work includes providing two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes with all lead and lift, loading, transporting and unloading using hoist pulley cranes, scaffolding charges and all other incidental charges required for successful completion fo the work as per specification and drawings(KPWD 18-19,Pg.N0.41,SI.No.7.31)	Kg	396.00	164	64,904	
85.00	Providing and Fixing SS Steel Chairs as specified by Architect.	Nos.	10.00	9,000	90,000	
86.00	P/F FRP Water gully cover with frame (25T) 600mmx500 mm on SWD (Rate analysis attached)	Nos.	47.00	7,912	3,71,877	
87.00	Providing and fixing of <b>S.S. Bollards(SS304</b> ) on footpath as specified and directed by Engineer -in-charge (NON SOR Item)	Nos.	20.00	4,500	90,000	
	Supplying and Fixing Passanger elevator of 8 Person Capacity of approved make and as per directed by Engineer in charge. (CPWD Plinth Area Basis Rate-2019)	Nos.	1.00	16,00,000	16,00,000	
89.00	Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5km Item No 17.4 KSRRB M100-4.1-Debris	Cum	180.02	91.30	16,436	
90.00	Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km Item No 17.4 KSRRB M100-4.1-Earth	Cum	1,078.42	90.86	97,985	
			Total		3,15,74,240	

Assistant Engineer MSCL Mangaluru Assistant Executive Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

General Manager Technical
MSCL Mangaluru

	Measurement Sh	eet -Civi	l Work-UF	POR			
Sr. No.	Description	Unit	No's	L	В	н	Qty.
1	KSRRB M200-11.1. Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removalof stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications and as directed by engineer in charge.  II. By Mechanical Means: A. In area of light jungle.  MORTH Specification No. 201 (KPWD 18-19,SI.No.18.15)						
	Provisional Qty	Sqm	1	122.00	100.00		12200.00
		Sqm Ha				Total	12200.00
		па				Total	1.220
2	KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications and as directed by engineer in charge.  i) Lime /Cement Concrete. I. By Manual Means: A. Lime Concrete, cement concrete grade M-10 and below. MORTH Specification No. 202 (KPWD 18-19,SI.No.18.17)						
	Provisional Qty	Cum	1		10.00		10.00
		Cum					10.00
3	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications and as directed by engineer in charge. iii) Dismantling Stone Masonry.  MORTH Specification No. 202  KSRRB M200- 15.2. do- B. Rubble stone masonry in cement mortar.  (KPWD 18-19,SI.No.18.27)						
	Provisional Qty	Cum	1		50		50.00
		Cum					50.00
4	KSRRB M200-32. Removal of Telephone /Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and stacking the serviceable and unserviceable material separatelycomplete as per specifications.  MORTH Specification No. 202 (KPWD 18-19,SI.No.18.57)						
	Electric Pole-Provisional Qty.	Nos Nos	5				5.00 <b>5.00</b>

Sr. No.	Description	Unit	No's	L	В	н	Qty.
5	KSRRB M200-14.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications and as directed by engineer in charge.  KSRRB M200-14.2. do- Dismantling brick/Tile work B. In cement mortar.  (KPWD 18-19,SI.No.18.23)						
	Provisional Qty.	Cum	1	Ę	50 	0.1	5.00 <b>5.00</b>
6	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iKSRRB M200-17.1. do- v) Steel work in all types of Sections upto a Height of 5 m above plinth level excluding Cutting of Rivet A. Including dismembering." (KPWD 18-19,Pg.No.140,SI.No.18.33)						
	Roof Truss	Mt	1		10		10.00
	Add 30% Qty.						3.00
		Mt					13.00
7	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking as directed by Engineer in charge with all leads and lifts. Of area 3 sq. metres and below (CPWD 2018 15.12.1)						
	Provisional Qty.		_				
	Door Window	Nos.	2				2.00 2.00
	VY II I I I I I I I I I I I I I I I I I	Nos.					4.00
8	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance 10km (within average thickness of 15 ems). including cost of materials, labour, HOM complete as per specifications.  (KPWD 18-19,SI.No.37.51)						
	Provisional Qty	Sqm	1	10	5		50.00
9	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material as directed by engineer in charge with all leads and lifts.  15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)						
	Roof	Sqm	1	20	14		280.00
10	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	Sqm	1	64	28		1792.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
11	Earth work excavation for foundation of structures upto 3 mtrs. by mechanical means as per drawing and technical specification, including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilising I transporting the remaining earth upto 1.00km lead. including cost of labour, materials and HOM etc., complete. do-In all types of soils (KPWD 18-19,SI No.2.23.1,Pg.No.8)						
	Footing Excavation						
	F1	Cum	2	2.2	2.4	3.00	31.68
	F2	Cum	15	2	2.0	3.00	180.00
	Lift Footing  Main Gate-Foundation	Cum	1	4.4	4.4	3.00	58.08
	C3,C4,C12,C13	Cum	4	1.800	1.6	3.00	34.56
	Combined Footing-C5 and C6	Cum	2	2.050		3.00	20.91
	Combined Footing-C7,C8,C9	Cum	1	3.250		3.00	16.58
	Combined Footing-C1,C2	Cum	1	2.500		3.00	12.75
	SWD-Excavation	Cum	1	230	1.7	1.25 <b>Total</b>	488.75 <b>843.31</b>
	Consider 70% Qty in Soil					Total(A)	590.31
	Landscape Area 1	Cum	1	104.0	000	0.6	62.40
	Landscape Area 2	Cum	1	36.0		0.6	21.60
	Landscape Area 3	Cum	1	6.00		0.6	3.60
	Landscape Area 4	Cum	1	11.0		0.6	6.60
	Landscape Area 5	Cum	1	45.0		0.6	27.00
	Landscape Area 6 Landscape Area 7	Cum Cum	1	35.0 14.0		0.6 0.6	21.00 8.40
	Landscape Area 8	Cum	1	48.0		0.6	28.80
	Landscape Area 9	Cum	1	171.0		0.6	102.60
	Landscape Area 10	Cum	1	20.0	000	0.6	12.00
	Landscape Area 11	Cum	1	17.0		0.6	10.20
	Landscape Area 12	Cum	1	20.0		0.6	12.00
	Landscape Area 14	Cum Cum	1	118.0 25.0		0.6 0.6	70.80 15.00
	Landscape Area 14 Landscape Area 15	Cum	1	107.0		0.6	64.20
	Paved Area Excavation	Cum	1	125		0.31	389.17
						Total (B)	855.37
						Total (A+B)	1445.69
12	Earth work excavation for foundation of structures upto 3 mtrs. by mechanical means as per drawing and technical specification, including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilising I transporting the remaining earth upto 1.00km lead. including cost of labour, materials and HOM etc., complete.do- Soft rock/ordinary rock (without blasting) (KPWD 18-19,SI No.2.23.2,Pg.No.8)						
	Footing Excavation						
	F1 F2	Cum	2 15	2.2	2.4	3.00	31.68
	Lift Footing	Cum Cum	15	2 4.4	4.4	3.00 3.00	180.00 58.08
	Main Gate-Foundation	3411		7.7	7.7	5.00	30.00
	C3,C4,C12,C13	Cum	4	1.8	1.6	3.00	34.56
	Combined Footing-C5 and C6	Cum	2	2.05	1.7	3.00	20.91
	Combined Footing-C7,C8,C9	Cum	1	3.25		3.00	16.58
	Combined Footing-C1,C2	Cum	1	2.5		3.00	12.75
	SWD-Excavation	Cum	1	230	1.7	1.25	488.75
i .	1	Cum				Total	843.31
	Consider 20% Qty in Soft Rock						168.66

Mechaspecif shorin of sluri and leterate was the way t	hwork in excavation for foundation of structures by hanical means as per drawing and technical cification including setting out construction of ing, strutting, barricading, danger light, bracing, removal umps and other deterious matter, dressing of sides levelling the bottom of trench to the extent irred, utilising the available excavated earth locally for work etc.complete. (Depth upto 3m). If Rock-Any rock Excavation by using mechanical ts/machinary WSDB 18-19, SI.No.vii.1c, Pg.No.7)  Iting Excavation  Footing  Gate-Foundation  C4, C12, C13  Iblined Footing-C5 and C6  Iblined Footing-C7, C8, C9  Iblined Footing-C1, C2  D-Excavation  Sider 10% Qty in Hard Rock  EB 2.3: Filling available excavated earth (excluding) in sides of foundations upto plinth in layers not ending 20 cms. in depth, compacting each deposited or by ramming after watering with lead upto 50 m. and pto 1.5 m. including cost of all labour complete as per cifications. specification. No. KBS 2.9  WD 18-19, SI.No.2.10, Pg No.7)  Required For Filling	Cum Cum Cum Cum Cum Cum Cum	2 15 1 4 2 1 1	2.2 2 4.4 1.8 2.05 3.25 2.5 230	2.4 2 4.4 1.6 1.7 1.7 1.7	3.00 3.00 3.00 3.00 3.00 1.25 <b>Total</b>	31.68 180.00 58.08 34.56 20.91 16.58 12.75 488.75 <b>843.31</b> <b>84.33</b>
F1 F2 Lift F0 Main C3,C4 Comb Comb Comb SWD- Consi  KSRB rock) excee layer I 14 lift upt specif (KPW  Qty R  Total Total Soilin PCC SWD Lands	Footing  n Gate-Foundation C4,C12,C13 Abined Footing-C5 and C6 Abined Footing-C7,C8,C9 Abined Footing-C1,C2 D-Excavation  sider 10% Qty in Hard Rock  AB 2.3: Filling available excavated earth (excluding) in sides of foundations upto plinth in layers not be ding 20 cms. in depth, compacting each deposited or by ramming after watering with lead upto 50 m. and pto 1.5 m. including cost of all labour complete as per cifications. specification. No. KBS 2.9  ND 18-19,SI.No.2.10,Pg No.7)	Cum Cum Cum Cum Cum Cum Cum Cum	15 1 4 2 1	2 4.4 1.8 2.05 3.25 2.5	2 4.4 1.6 1.7 1.7	3.00 3.00 3.00 3.00 3.00 3.00 1.25	180.00 58.08 34.56 20.91 16.58 12.75 488.75 <b>843.31</b>
F1 F2 Lift F0 Main C3,C4 Comb Comb Comb SWD- Consi  KSRB rock) excee layer I 14 lift upt specif (KPW  Qty R  Total Total Soilin PCC SWD Lands	Footing  n Gate-Foundation C4,C12,C13 Abined Footing-C5 and C6 Abined Footing-C7,C8,C9 Abined Footing-C1,C2 D-Excavation  sider 10% Qty in Hard Rock  AB 2.3: Filling available excavated earth (excluding) in sides of foundations upto plinth in layers not be ding 20 cms. in depth, compacting each deposited or by ramming after watering with lead upto 50 m. and pto 1.5 m. including cost of all labour complete as per cifications. specification. No. KBS 2.9  ND 18-19,SI.No.2.10,Pg No.7)	Cum Cum Cum Cum Cum Cum Cum Cum	15 1 4 2 1	2 4.4 1.8 2.05 3.25 2.5	2 4.4 1.6 1.7 1.7	3.00 3.00 3.00 3.00 3.00 3.00 1.25	180.00 58.08 34.56 20.91 16.58 12.75 488.75 <b>843.31</b>
Lift Formal Main C3,C4 Comb Comb Comb SWD- Consi  KSRB rock) excee layer I 14 lift upt specif (KPW  Qty R  Total Total Soilin PCC SWD Lands	n Gate-Foundation C4,C12,C13 abined Footing-C5 and C6 abined Footing-C7,C8,C9 abined Footing-C1,C2 D-Excavation sider 10% Qty in Hard Rock EB 2.3: Filling available excavated earth (excluding) in sides of foundations upto plinth in layers not peding 20 cms. in depth, compacting each deposited by ramming after watering with lead upto 50 m. and pto 1.5 m. including cost of all labour complete as per cifications. specification. No. KBS 2.9 WD 18-19,Sl.No.2.10,Pg No.7) Required For Filling	Cum Cum Cum Cum Cum Cum	1 4 2 1	2 4.4 1.8 2.05 3.25 2.5	2 4.4 1.6 1.7 1.7	3.00 3.00 3.00 3.00 3.00 3.00 1.25	180.00 58.08 34.56 20.91 16.58 12.75 488.75 <b>843.31</b>
Main C3,C4 Comb Comb Comb SWD- Consi  KSRB rock) excee layer I 14 lift upt specif (KPW  Qty R  Total Total Soilin PCC SWD	n Gate-Foundation C4,C12,C13 abined Footing-C5 and C6 abined Footing-C7,C8,C9 abined Footing-C1,C2 D-Excavation sider 10% Qty in Hard Rock EB 2.3: Filling available excavated earth (excluding) in sides of foundations upto plinth in layers not peding 20 cms. in depth, compacting each deposited by ramming after watering with lead upto 50 m. and pto 1.5 m. including cost of all labour complete as per cifications. specification. No. KBS 2.9 WD 18-19,Sl.No.2.10,Pg No.7) Required For Filling	Cum Cum Cum Cum Cum	4 2 1 1	1.8 2.05 3.25 2.5	1.6 1.7 1.7 1.7	3.00 3.00 3.00 3.00 1.25	34.56 20.91 16.58 12.75 488.75 <b>843.31</b>
C3,C4 Comb Comb Comb SWD- Consi  KSRB rock) excee layer I 14 lift upt specif (KPW  Qty R  Total Total Soilin PCC SWD	C4,C12,C13 Abined Footing-C5 and C6 Abined Footing-C7,C8,C9 Abined Footing-C1,C2 D-Excavation  Sider 10% Qty in Hard Rock  AB 2.3: Filling available excavated earth (excluding in sides of foundations upto plinth in layers not eleding 20 cms. in depth, compacting each deposited in by ramming after watering with lead upto 50 m. and pto 1.5 m. including cost of all labour complete as per cifications. specification. No. KBS 2.9  WD 18-19,Sl.No.2.10,Pg No.7)  Required For Filling	Cum Cum Cum Cum	2 1 1	2.05 3.25 2.5	1.7 1.7 1.7	3.00 3.00 3.00 1.25	20.91 16.58 12.75 488.75 <b>843.31</b>
Comb Comb Comb SWD- Consi  KSRB rock) excee layer I 14 lift upt specif (KPW  Qty R  Total Total Soilin PCC SWD	abined Footing-C5 and C6 abined Footing-C7,C8,C9 abined Footing-C1,C2 D-Excavation  sider 10% Qty in Hard Rock  B 2.3 : Filling available excavated earth (excluding) in sides of foundations upto plinth in layers not ending 20 cms. in depth, compacting each deposited by ramming after watering with lead upto 50 m. and pto 1.5 m. including cost of all labour complete as per cifications. specification. No. KBS 2.9  WD 18-19,SI.No.2.10,Pg No.7)  Required For Filling	Cum Cum Cum Cum	2 1 1	2.05 3.25 2.5	1.7 1.7 1.7	3.00 3.00 3.00 1.25	20.91 16.58 12.75 488.75 <b>843.31</b>
Comb Comb SWD- SWD- Consi KSRB rock) excee layer I 14 lift upt specif (KPW  Qty R  Total Total Soilin PCC SWD Lands	abined Footing-C7,C8,C9 abined Footing-C1,C2 D-Excavation  sider 10% Qty in Hard Rock  B 2.3 : Filling available excavated earth (excluding) in sides of foundations upto plinth in layers not ending 20 cms. in depth, compacting each deposited by ramming after watering with lead upto 50 m. and pto 1.5 m. including cost of all labour complete as per cifications. specification. No. KBS 2.9  WD 18-19,SI.No.2.10,Pg No.7)	Cum Cum Cum	1 1	3.25 2.5	1.7 1.7	3.00 3.00 1.25	16.58 12.75 488.75 <b>843.31</b>
Comb SWD- Consi  KSRB rock) excee layer I 14 lift upt specif (KPW  Qty R  Total Total Soilin PCC SWD Lands	Abined Footing-C1,C2 D-Excavation  Sider 10% Qty in Hard Rock  B 2.3 : Filling available excavated earth (excluding in its in it	Cum				1.25	488.75 <b>843.31</b>
Consi  KSRB rock) excee layer I  14 lift upt specif (KPW  Qty R  Total Total Soilin PCC SWD Lands	sider 10% Qty in Hard Rock  B 2.3 : Filling available excavated earth (excluding) in sides of foundations upto plinth in layers not seding 20 cms. in depth, compacting each deposited by ramming after watering with lead upto 50 m. and pto 1.5 m. including cost of all labour complete as per cifications. specification. No. KBS 2.9  WD 18-19,SI.No.2.10,Pg No.7)  Required For Filling	Cum	1	230	1.7		843.31
KSRB rock) excee layer I lift upt specif (KPW  Qty R  Total Total Soilin PCC SWD Lands	tB 2.3 : Filling available excavated earth (excluding) in sides of foundations upto plinth in layers not seeding 20 cms. in depth, compacting each deposited by ramming after watering with lead upto 50 m. and pto 1.5 m. including cost of all labour complete as per cifications. specification. No. KBS 2.9 WD 18-19,SI.No.2.10,Pg No.7)					Total	
KSRB rock) excee layer I lift upt specif (KPW  Qty R  Total Total Soilin PCC SWD Lands	tB 2.3 : Filling available excavated earth (excluding) in sides of foundations upto plinth in layers not seeding 20 cms. in depth, compacting each deposited by ramming after watering with lead upto 50 m. and pto 1.5 m. including cost of all labour complete as per cifications. specification. No. KBS 2.9 WD 18-19,SI.No.2.10,Pg No.7)						84.33
rock) excee layer I lift upt specif (KPW  Qty R  Total Total Soilin PCC SWD Lands	) in sides of foundations upto plinth in layers not seeding 20 cms. in depth, compacting each deposited by ramming after watering with lead upto 50 m. and pto 1.5 m. including cost of all labour complete as per cifications. specification. No. KBS 2.9 ND 18-19,SI.No.2.10,Pg No.7)  Required For Filling						
Total Total Soilin PCC SWD Lands	•						
Total Soilin PCC SWD Lands	I Francistad material eveilable for filling	_					
Total Soilin PCC SWD Lands	Il Excavated material available for filling.	Cum	1	1614.35			1614.35
PCC SWD Lands	Il Excavation Qty.	Cum	1	1698.68			1698.68
SWD Lands		Cum	-1	139.98			-139.98
Lands		Cum	-1	157.72	0.0		-157.72
	O void area dscape soil	Cum Cum	-1 -1	230.00 466.20	0.6	1	-138.00 -466.20
Bodu	uct Footing Concrete Vol.	Cum	-1 -1	176.53			-466.20 -176.53
	det i ooting concrete voi.	Ouiii	-1	170.55			620.26
trench conso lift as 15 as dir all typ reach	riding Muram/Gravel Bedding for the pipeline ches/ at Plith below grade slab,including watering and solidation by punners etc., complete with all lead and solidation by punners etc., complete with all lead and solidation by punners etc., complete, ighting etc., irected by the Engineer-in-Charge etc., complete, for type of soils excluding black cotton soil and rock thes.  VSDB 18-19, Pg No.9,SI No.6.2						
	ed Area below Pergola	Cum	1	16.2	11.0	0.3	53.61
Exten	ended area of building	Cum	1	14.0	4.0	0.3	16.80
<del>                                     </del>		Cum				Total	70.41
/ trap appro 16 wateri all lea specif (KPW	B 2.8: Providing and Filling in foundation with granite or broken metal 100mm. and down size, with roved sand including hand packing, ramming, ering, including cost of all materials and labour with ead and lift. complete as per specifications. Cification. No. KBS	Cure		4.0		0.00	4.00
F1 F2		Cum Cum	2 15	1.8 1.6	2 1.6	0.23 0.23	1.66 8.83
	Footing	Cum	15	1.6	1.0	0.23	3.68
	····· <del>'</del> <del>'</del> <del>'</del> <del>'</del>	Cum	1	16.2	11.03	0.23	41.10
Exten	ed Area below Pergola	Cum	1	14	4	0.23	12.88
Main SWD	ended area of building				I		67.82

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	C3,C4,C12,C13	Cum	4	1.4	1.2	0.23	1.55
	Combined Footing-C5 and C6	Cum	2	1.65	1.3	0.23	0.99
	Combined Footing-C7,C8,C9	Cum	1	2.85	1.3	0.23	0.85
	Combined Footing-C1,C2	Cum	1	2.1	1.3	0.23	0.63
		Cum				Total	139.98
17	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(Including transporting charges, loading and unloading for lead 5km) (Page No 143,SI No : 19.14)						
	Road	Cum	1	1220	0.0	0.98	1195.60
18	KSRRB M300-55. Construction of sub-grade transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications, including cost of earth, watering charges & compaction by vibratory roller to 97% of modified proctors density) MORTH Specification No. 305 (KPWD 18-19,SI.No.19.62,Pg.No.147)						
	Road	Cum	1	122	0	0.5	610.00
		Cum				Total	610.00
19	KSRRB M400-6.2.Construction of granular sub base by providing close graded crushed stone aggregate of granite/trap/basalit material,spreading in uniform layers with motor on prepared surface,mixing by mix in place methode by rotavator at OMC, and compacting with vibratory power roller to achieve the desired density,complete as per specification. B.By Mix in Place Methode.  Close graded granular sub base material as per 400-1 For Grading II material (Page No 155,SI No : 20.5.2)						
	Road	Cum	1	122	0	0.15	183.00
20	KSRRB M600-1.Construction of dry lean cement concrete mix M15 with 1:5:10 OPC cement @160Kgs,with 25mm and down size graded granite/trap/basalt metal coarse aggregate at 0.86cum and fine aggregate @ 0.58cum Sub-base over prepared sub grade with (coarse and fine aggregate confirming to IS:383) aggregate cement ration not to excee 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content to be determined during trail length construction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver with electronic sensor,compacting with 8-10 tonnes double drum						
	Road	Cum	1	122	0	0.10	122.00
		23111	<del>'</del>		-	0.10	

joint sub coa to IS agg mixi site, spre included	SSRRB M600-2.Construction of unreinforced,dowel nted,plain cement concrete pavement over a prepared be base with 25mm and down size graded granite metal arse aggregate with superplastisizer at 3 lts confirming IS9103-1999 reaffirmed 2008(Coarse and fine						
sea rod, to lii spro (420	gregate conforming to IS:383) mixed in a batching and xing plant as per approved mix design,transported to e,laid with a fixed form or slip form paver read,compacted and finished in a continuos operation cluding provision of contraction, expansio, construction d longitudinal joints,including groove cutting chrges, ants filler,separation memberane, sealent primer, joints alant, debonding strip, dowel bars at 4.5m intervals, tied, admixtures as approved, curing compound,finishing lines and grades as per drawing complete as per recifications MORTH specification No.602.do with M40 20Kg per cum Cement,C.A,0.67 cum F.A.044Cum age No 176,SI No : 22.2.2)						
Roa	pad	Cum	1	122	0.0	0.23	280.60
mac 165 finis 22 inclu mac etc.	ovidin and fixing pre cast solid concrete Kerb stones ade out of CC 1:2:4 with top and bottom width 114 and 5mm respectively,400mm high and 450mm in length ished with CM 1:3 Plastering and finishing cutting, sluding cost of all materials,labour,hire charges of achinery,loading,unloading,lead and lift,transportation c.,complete age No 25,SI No : 5.3)						
	pad Perimeter	Rmt	1	1000.0			1000.00
Add	d 30% Extra Qty.					Total	300.00 <b>1300.00</b>
						Total	1300.00
with plas	GRRB 800-1. Painting two coats after filling the surface th synthetic enamel paint in approved shades on new astered concrete surfaces, with materials, labour mplete as per MORTH specifications section 8.  No: 24.1 of KPWD 18-19)			Kerb Length			
Pair	inting	Sqm	1	1300.0		0.365	474.50
M80 con con toe at b ove bed rock 24 dia and leve and Cas	SRRB M800-29.3.Cable Duct Across the road KSRRB 800-29.1. Providing and laying of a reinforced cement increte pipe duct, 300 mm dia, across the road (new instruction), extending from drain to drain in cuts and e of slope to toe of slope in fills, constructing head walls both ends, providing a minimum fill of granular material er top and sides of RCC pipe as per IRC:98-1997, dded on a 0.3 m thick layer of granular material free of the pipe subject to outer distance of pipe at least half a of pipe subject to minimum450 mm in case of double d triple row ducts, joints to be made leak proof, invertivel of duct to be above higher than ground level to event entry of water and dirt, all as per IRC: 98 - 1997 d approved drawings complete as per specifications. Isse-III: Triple row for three utility services.						
Roa	ad Length	Rm	230				230.00
			Nos.	Road C/s Length			
	nsider Duct @ 50m C/C (230/50=5nos.)	Rm	5	9.0			45.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
25	KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with Plate compactor to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material (RA Attached)						
	Hardscape Area	Cum	1	98	6	0.15	147.90
	Eco Lock permeable Pavers	Cum	1	1173		0.15	175.95
	Area under paragola	Cum	1	13.2	7	0.15	13.86
		Cum				Total	337.71
26	KSRB 4-1.6; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (KPWD 18-19,SI No.4.6.2,Pg.No.13)						
	Footing PCC						
	F1	Cum	2	1.6	1.8	0.1	0.58
	F2	Cum	15	1.4	1.4	0.1	2.94
	Lift Footing	Cum	1	3.8	3.8	0.1	1.44
	Paved Area below Pergola	Cum	1	16	10.83	0.1	17.33
	Hard Scape Area	Cum	1	98	6	0.1	98.60
	SWD-Base	Cum	1	230	1.282	0.1	29.49
	Extended area of building	Cum	1	14	4	0.1	5.60
	Main Gate-Foundation						0.00
	C3,C4,C12,C13	Cum	4	1.4	1.2	0.1	0.67
	Combined Footing-C5 and C6	Cum	2	1.65	1.3	0.1	0.43
	Combined Footing-C7,C8,C9	Cum	1	2.85	1.3	0.1	0.37
	Combined Footing-C1,C2	Cum Cum	1	2.1	1.3	0.1	0.27
		Cum				Total	157.72
27	KSRB-3.2: Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration at 3.19 Litre/sqm., including cost of chemical, diluting in water to one percent concentration, labour, HOM complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KBS: 3.2.6 I 3.2.7 (KPWD 18-19,S.I. No.3.2)						
	Area below Pergola	Sqm	1	16.2	11.03		178.69
		O		4.4	1		EC 00
	Extended area of building	Sqm Sqm	1	14	4	Total	56.00 <b>234.69</b>

Sr. No.	Description	Unit	No's	L	В	н	Qty.
28	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 aggregtes @ 0.47cum, with super plasticisers@ 3 liters confirming to IS 9103-1999 reafirmed-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,SI No.4.10,Pg.No.14)						
	Footing						
	F1	Cum	2	1.400			
	F2	Cum	15	1.200			
	Lift Footing	Cum	1	3.600	3.6	0.40	5.18
	Main Gate-Foundation C3,C4,C12,C13	Cum	4	1.200	1.0	0.40	1.92
	Combined Footing-C5 and C6	Cum	2	1.450			
	Combined Footing-C7,C8,C9	Cum	<u>_</u> 1	2.650		0.40	
	Combined Footing-C1,C2	Cum	1	1.900		0.40	
	Jackating of Column Footing						
	Grid C,E and 1	Cum	2	1.6	1.6		
	Deduct Existing Column Volume	Cum	-2	0.4	0.2		
	Grid A and 2 Deduct Existing Column Volume	Cum Cum	1 -1	1.6 0.5	1.6 0.2	0.30 0.30	
	Grid F and 1,3	Cum	2	1.6	1.6		
	Deduct Existing Column Volume	Cum	-2	0.5	0.2	0.30	
	Grid E and 5	Cum	1	1.6	1.6	1.30	3.33
	Deduct Existing Column Volume	Cum	-1	0.4	0.2	1.30	-0.11
	SWD			222.2		0.10	0-00
	Base Wall	Cum Cum	1 2	230.0	1.1 0.20	0.10	
	Slab	Cum	<u>2</u> 1	230.0 230.0	0.20	1.00 0.15	
	Stab	Cum	<u>'</u>	200.0	0.0	Total	
29	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 aggregtes @ 0.47cum, with super plasticisers @ 31ts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 ems 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, lintles, 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, 4.6 (KPWD 18-19,SI.No.4.12,Pg No.14)						
	Plinth Area Plinth Beam RCC						
1	PB1	Cum	1	12.76	0.23	0.45	1.32
2	PB2	Cum	1	10.6	0.23	0.45	1.10
3	PB3	Cum	1	2	0.23		
4	PB4-Long	Cum	1	3.2	0.23		
5	PB4-Short	Cum	1	1	0.23		
6 7	PB5 PB6	Cum Cum	1	3.25 3.25			
8	PB7	Cum	1	3.25			
		Juili		0.20	0.10	, U. <del>T</del> U	

The   BBS-Short   Coum   Cou	Sr. No.	Description	Unit	No's	L	В	Н	Qty.
Column RCC (Fooling to Plinth Level)	10	PB9-Long	Cum	3	10.5	0.23	0.45	3.26
C6	11			2	6.62	0.23	0.45	1.37
C7						2.22	2.50	
Lift Wall   Cum								0.90
Main Gate Plinth Beam								
P81   Cum			Cum	1	4.80	0.23	2.60	2.87
PB1-Short			C	4	47.00	0.00	0.45	4.70
PB3								
Security Cabin Column								
CS.C10.C8.C11			Cuili		1.13	0.23	0.45	0.23
C7.CB.C9			Cum	1	0.40	0.23	6.00	2 21
C1C2								
C3C4_C12_C13								
Ground Floor		00,01,012,010	Cum		0.10	0.20		
First Floor Beam							i otai	01.02
First Floor Beam		Ground Floor						
1   B1								
2   B2	1		Cum	1	12.76	0.23	0.45	1.32
3   B3								1.10
B-H-Long								0.21
Second Floor Beam   Cum   1   1   0.23   0.45   0.1								0.33
6 BS								0.10
The column RCC ( Plinth Level First Floor Level)				1	3.25			0.34
Research   Column								0.34
Column RCC ( Plinth Level First Floor Level)	8		Cum	1		0.15	0.45	0.22
C6								
C6		Column RCC ( Plinth Level First Floor Level)						
Lift Wall   Cum			Cum	2	0.30	0.60	3.60	1.30
Security Cabin Roof Beam		C7	Cum	15	0.40	0.40	3.60	8.64
Column RCC ( Plinth Level First Floor Level )		Lift Wall	Cum	1	4.8	0.23	3.60	3.97
Column RCC ( Plinth Level First Floor Level )		Security Cabin Roof Beam						
TB2		Column RCC ( Plinth Level First Floor Level)	Cum	4				1.45
Slab				2				0.23
First Floor   Second Floor Beam   Second Floor				2				0.12
First Floor   Second Floor Beam   Cum		Slab	Cum	1	1.93	1.20		0.29
Second Floor Beam							Total	19.95
Second Floor Beam								
1   B1								
2   B2A								
3   B3								1.32
A B4-Long								1.91
5         B4-Short         Cum         1         1         0.23         0.45         0.1           6         B5         Cum         1         3.25         0.23         0.45         0.3           7         B6         Cum         1         3.25         0.23         0.45         0.3           8         B7         Cum         1         3.25         0.15         0.45         0.2           9         B8         Cum         3         12.86         0.3         0.45         5.2           10         B9         Cum         5         10.5         0.3         0.45         7.0           11         B10         Cum         7         10.5         0.23         0.45         7.0           Column RCC (First Floor to Second Floor)         Cum         2         0.3         0.6         3.6         1.3           C7         Cum         15         0.4         0.4         3.6         8.6           Lift Wall         Cum         1         4.8         0.23         3.6         3.9           RCC Slab-S3         Cum         1         4.8         0.23         3.6         3.9			_					0.21
6         B5         Cum         1         3.25         0.23         0.45         0.3           7         B6         Cum         1         3.25         0.23         0.45         0.3           8         B7         Cum         1         3.25         0.15         0.45         0.2           9         B8         Cum         3         12.86         0.3         0.45         5.2           10         B9         Cum         5         10.5         0.3         0.45         7.0           11         B10         Cum         7         10.5         0.23         0.45         7.0           Column RCC (First Floor to Second Floor)           C6         Cum         2         0.3         0.6         3.6         1.3           C7         Cum         15         0.4         0.4         3.6         8.6           Lift Wall         Cum         1         4.8         0.23         3.6         3.9           RCC Slab-S3         Cum         1         1.5         3.25         0.125         0.6           RCC Slab-S2         Cum         1         4.87         3.245         0.15         2.3			_					0.33
7         B6         Cum         1         3.25         0.23         0.45         0.3           8         B7         Cum         1         3.25         0.15         0.45         0.2           9         B8         Cum         3         12.86         0.3         0.45         5.2           10         B9         Cum         5         10.5         0.3         0.45         7.0           11         B10         Cum         7         10.5         0.23         0.45         7.0           Colum RCC (First Floor to Second Floor)           C6         Cum         2         0.3         0.6         3.6         1.3           C7         Cum         15         0.4         0.4         3.6         8.6           Lift Wall         Cum         1         4.8         0.23         3.6         3.9           RCC Slab-S3         Cum         1         1.5         3.25         0.125         0.6           RCC Slab-S2         Cum         1         4.87         3.245         0.15         2.3           RCC Slab-S2         Cum         1         4.2         3.245         0.15         2.0      <				-	*			0.10
8         B7         Cum         1         3.25         0.15         0.45         0.2           9         B8         Cum         3         12.86         0.3         0.45         5.2           10         B9         Cum         5         10.5         0.3         0.45         7.0           11         B10         Cum         7         10.5         0.23         0.45         7.0           Column RCC (First Floor to Second Floor)           C6         Cum         2         0.3         0.6         3.6         1.3           C7         Cum         15         0.4         0.4         3.6         8.6           Lift Wall         Cum         1         4.8         0.23         3.6         3.9           RCC Slab-S3         Cum         1         1.5         3.25         0.125         0.125         0.6           RCC Slab-S2         Cum         1         4.87         3.245         0.15         2.3           RCC Slab-S2         Cum         1         4.2         3.245         0.15         2.0           Terrace Beam + Tie Beam at 3.6m Level for Terrace Column         Cum         2         13.2         0.3								0.34
9   B8   Cum   3   12.86   0.3   0.45   5.2     10   B9   Cum   5   10.5   0.3   0.45   7.0     11   B10   Cum   7   10.5   0.23   0.45   7.6			_					
10   B9			_					
11   B10   Cum   7   10.5   0.23   0.45   7.6			_					
Column RCC (First Floor to Second Floor )   C6								
C6         Cum         2         0.3         0.6         3.6         1.3           C7         Cum         15         0.4         0.4         3.6         8.6           Lift Wall         Cum         1         4.8         0.23         3.6         3.9           RCC Slab-S3         Cum         1         1.5         3.25         0.125         0.6           RCC Slab-S2         Cum         1         4.87         3.245         0.15         2.3           RCC Slab-S2         Cum         1         4.2         3.245         0.15         2.0           Terrace Beam + Tie Beam at 3.6m Level for Terrace Column         Cum         1         4.2         3.245         0.15         2.0           Terrace Beam + Tie Beam at 3.6m Level for Terrace Column         Cum         2         13.2         0.25         0.60         3.9           2         TB2         Cum         2         13.2         0.25         0.60         3.9           3         TB2-Short         Cum         2         13.2         0.3         0.60         4.7           3         TB3         Cum         4         6.15         0.3         0.75         5.5	11	DIU	Cum	/	10.5	0.23	0.45	7.61
C6         Cum         2         0.3         0.6         3.6         1.3           C7         Cum         15         0.4         0.4         3.6         8.6           Lift Wall         Cum         1         4.8         0.23         3.6         3.9           RCC Slab-S3         Cum         1         1.5         3.25         0.125         0.6           RCC Slab-S2         Cum         1         4.87         3.245         0.15         2.3           RCC Slab-S2         Cum         1         4.2         3.245         0.15         2.0           Terrace Beam + Tie Beam at 3.6m Level for Terrace Column         Cum         1         4.2         3.245         0.15         2.0           Terrace Beam + Tie Beam at 3.6m Level for Terrace Column         Cum         2         13.2         0.25         0.60         3.9           2         TB2         Cum         2         13.2         0.25         0.60         3.9           3         TB2-Short         Cum         2         13.2         0.3         0.60         4.7           3         TB3         Cum         4         6.15         0.3         0.75         5.5	-	Column BCC / First Floor to Consul Floor				+		
C7         Cum         15         0.4         0.4         3.6         8.6           Lift Wall         Cum         1         4.8         0.23         3.6         3.9           RCC Slab-S3         Cum         1         1.5         3.25         0.125         0.6           RCC Slab-S2         Cum         1         4.87         3.245         0.15         2.3           RCC Slab-S2         Cum         1         4.2         3.245         0.15         2.0           Total         43.6           Second Floor           Terrace Beam + Tie Beam at 3.6m Level for Terrace Column           1         TB1         Cum         2         13.2         0.25         0.60         3.9           2         TB2         Cum         2         13.2         0.25         0.60         3.9           3         TB2-Short         Cum         2         13.2         0.3         0.60         4.7           4         TB3         Cum         4         6.15         0.3         0.75         5.5           5         TB4         Cum         2         6.15         0.23         0.60         1.7 <td>-</td> <td></td> <td>Cum</td> <td>2</td> <td>0.0</td> <td>0.6</td> <td>2.6</td> <td>4.00</td>	-		Cum	2	0.0	0.6	2.6	4.00
Lift Wall	-		_					
RCC Slab-S3	-							
RCC Slab-S2	-		_					
RCC Slab-S2	-							
Second Floor   Forace Beam + Tie Beam at 3.6m Level for Terrace   Column   Cum   2   13.2   0.25   0.60   3.9			_					
Second Floor   Terrace Beam + Tie Beam at 3.6m Level for Terrace   Column		INOO Olab-02	Culli	I	4.2	3.243		
Terrace Beam + Tie Beam at 3.6m Level for Terrace           Column         Cum         2         13.2         0.25         0.60         3.9           2         TB2         Cum         2         13.2         0.3         0.60         4.7           3         TB2-Short         Cum         6         6.23         0.3         0.60         6.7           4         TB3         Cum         4         6.15         0.3         0.75         5.5           5         TB4         Cum         2         6.15         0.23         0.60         1.7			+				iotai	43.00
Terrace Beam + Tie Beam at 3.6m Level for Terrace           Column         Cum         2         13.2         0.25         0.60         3.9           2         TB2         Cum         2         13.2         0.3         0.60         4.7           3         TB2-Short         Cum         6         6.23         0.3         0.60         6.7           4         TB3         Cum         4         6.15         0.3         0.75         5.5           5         TB4         Cum         2         6.15         0.23         0.60         1.7		Second Floor	+			+		
Column         Cum         2         13.2         0.25         0.60         3.9           2         TB2         Cum         2         13.2         0.3         0.60         4.7           3         TB2-Short         Cum         6         6.23         0.3         0.60         6.7           4         TB3         Cum         4         6.15         0.3         0.75         5.5           5         TB4         Cum         2         6.15         0.23         0.60         1.7			+			+		
1     TB1     Cum     2     13.2     0.25     0.60     3.9       2     TB2     Cum     2     13.2     0.3     0.60     4.7       3     TB2-Short     Cum     6     6.23     0.3     0.60     6.7       4     TB3     Cum     4     6.15     0.3     0.75     5.5       5     TB4     Cum     2     6.15     0.23     0.60     1.7								
2     TB2     Cum     2     13.2     0.3     0.60     4.7       3     TB2-Short     Cum     6     6.23     0.3     0.60     6.7       4     TB3     Cum     4     6.15     0.3     0.75     5.5       5     TB4     Cum     2     6.15     0.23     0.60     1.7	1		Cum	2	13.2	0.25	0.60	3 06
3         TB2-Short         Cum         6         6.23         0.3         0.60         6.7           4         TB3         Cum         4         6.15         0.3         0.75         5.5           5         TB4         Cum         2         6.15         0.23         0.60         1.7			_					4.75
4     TB3     Cum     4     6.15     0.3     0.75     5.5       5     TB4     Cum     2     6.15     0.23     0.60     1.7			_					6.73
5 TB4 Cum 2 6.15 0.23 0.60 1.7			_					5.54
								1.70
T D 1150 1 CHM F 21 13.21 (13.1 (17.51 5.9)	6	TB5	Cum	2	13.2	0.23	0.75	5.94

8 TI 9 TI 10 TI 11 TI 12 TI 13 TI	TB5 TB6 TB7	Cum	2	1	0.0		
9 TI 10 TI 11 TI 12 TI 13 TI				•	0.3	0.75	0.45
10 TI 11 TI 12 TI 13 TI	B/	Cum	2	13.2	0.3		5.94
11 TI 12 TI 13 TI		Cum Cum	2	19.25 6.5	0.23		5.31 2.34
12 TI	-B8	Cum	2	19.3	0.3		6.95
13 TI		Cum	2	12.4	0.3	0.60	4.46
14 T		Cum	2	12.4	0.3	0.75	5.58
14 11		Cum	2	3	0.23		0.62
	TB11	Cum	2	3.3	0.15		0.45
	B12	Cum	4	15.9	0.23		6.58
	Staire Case Flight	Cum	2	3.5	1.5		1.58
	Steps (22 nos. X 0.5 )	Cum	11	1.5	0.3	0.165	0.82
	.anding Column RCC ( Second Floor to Third Floor )	Cum	2	3	1.5	0.15	1.35
	C6	Cum	2	0.3	0.6	3.6	1.30
	Column	Cum	24	0.38	0.23	3.6	7.55
	Lift Wall	Cum	1	4.8	0.23	3.6	3.97
	Chajja	Cum	1	15.4	0.9	0.1	1.39
		Cum		13.2	0.9		1.19
	RCC Slab-S2	Cum	1	1.5	3.25		0.61
	RCC Slab-S3	Cum	1	4.87	3.245		2.37
R	RCC Slab-S3	Cum	1	4.2	3.245		2.04
-	Third Floor					Total	91.46
	Third Floor Terrace Slab	Cum	1	13.36	20	0.15	40.08
	errace Stab C6	Cum	2	0.37	0.15		0.72
	Column	Cum	24	0.38	0.13		13.63
	ift Wall	Cum	6	6.23	0.3		6.73
							61.16
30 <sub>W</sub> C	concrete and new concrete and required shuttering work, curing, including cost of all material and labour etc. Complete. (Note: Reinforcementsteel will be pais separetaly)  RA Attached)						
,	Foundation to Plinth LvI						
	lackating of Column						
	Grid C,E and 1	Cum	2	0.58	0.43	2.60	1.30
	Existing Column Ded.	Cum	-2	0.30	0.15		-0.23
G	Grid A and 2	Cum	1	0.65	0.43		0.73
		Cum	-1	0.37	0.15		-0.14
G	Grid F and 1,3	Cum	2	0.65	0.43		1.45
G	Prid E and 5	Cum Cum	<u>-2</u>	0.37 0.58	0.15 0.43		-0.29
	Grid E and 5	Cum	<u>1</u> -1		0.43		0.65 -0.12
P	Plinth Lvl to First Floor Slab	53111	<u> </u>	0.00	0.10	2.00	0.12
	lackating of Column						
G	Grid C,E and 1	Cum	2	0.58	0.43		1.80
	xisting Column Ded.	Cum	-2	0.30	0.15		-0.32
	Grid A and 2	Cum	1	0.65	0.43		1.01
	Existing Column Ded. Grid F and 1,3	Cum	-1 2	0.37 0.65	0.15 0.43		-0.20 2.01
	Existing Column Ded.	Cum Cum	-2	0.65	0.43		-0.40
	Grid E and 5	Cum	<u>-2</u> 1	0.58	0.13		0.90
E	Existing Column Ded.	Cum	-1		0.15		-0.16
	First Floor to Seconf Floor Slab						
Ja	lackating of Column						
	Grid C,E and 1	Cum	2	0.58	0.43		1.80
	Existing Column Ded.	Cum	-2	0.30	0.15		-0.32
G	Grid A and 2	Cum	1	0.65	0.43		1.01
	Prid F and 1 2	Cum	-1	0.37	0.15		-0.20
G	Grid F and 1,3	Cum Cum	-2	0.65 0.37	0.43 0.15		2.01 -0.40
C	Grid E and 5	Cum	<u>2</u> 1	0.57	0.15		0.90
		Cum	<u>-1</u>		0.45		-0.16
	Add 20% Extra Qty.						2.52

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
<u> </u>		Cum				Total	15.11
31	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 4.6.2 (KPWD 18-19,SI.No.4.28,Pg No.16)						
	Footing			Perimeter			
	F1	Sqm	2	6.0		0.50	6.00
	F2	Sqm	15	4.8		0.40	28.80
	Lift Footing  Main Gate-Foundation	Sqm	1	14.4		0.40	5.76
	C3,C4,C12,C13	Sqm	4	4.4		0.40	7.04
	Combined Footing-C5 and C6	Sqm	2	5.1		0.40	4.08
	Combined Footing-C7,C8,C9	Sqm	1	7.5		0.40	3.00
	Combined Footing-C1,C2 SWD-Base	Sqm Sqm	1	6.0		0.40	2.40 46.00
	SWD-Wall	Sqm	<u>2</u>	230.0 230.0		0.10 1.00	920.00
	SWD-Slab	Sqm	1	230		0.9	207.00
		Sqm				Total	1230.08
32	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, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.34,Pg No.17)						
	Plinth Beam						
	Beam-Sides * 2 + Bottom	Cam	4	10.76	1 12		44.40
2	PB1 PB2	Sqm Sqm	1 1	12.76 10.6	1.13 1.13		14.42 11.98
3	PB3	Sqm	1	2	1.13		2.26
4	PB4-Long	Sqm	1	3.2	1.13		3.62
<u>5</u>	PB4-Short PB5	Sqm Sqm	<u>1</u>	3.25	1.13 1.13		1.13 3.67
7	PB6	Sqm	1	3.25	1.13		3.67
8	PB7	Sqm	1	3.25	1.05		3.41
9	PB8	Sqm	3	12.86	1.13		43.60
10	PB9-Long	Sqm	3	10.5	1.13		35.60
11	PB9-Short	Sqm Sqm	2	6.62	1.13	Total	14.96 <b>138.31</b>
		- Oq				Total	100.01
	First Floor Beam						
2	B1 B2	Sqm Sqm	1 1	12.76 10.6	1.13 1.13		14.42 11.98
3	B3	Sqm	1	2	1.13		2.26
4	B4-Long	Sqm	1	3.2	1.13		3.62
5	B4-Short	Sqm	1	1	1.13		1.13
6 7	B5 B6	Sqm Sqm	1 1	3.25 3.25	1.13 1.13		3.67 3.67
8	B7	Sqm	1	3.25	1.13		3.67
		Sqm		0.20		Total	44.16
1	Second Floor Beam B1	Sqm	1	12.76	1.13		14.42
2	B2A	Sqm	<u> </u>	12.76	1.13		15.90
3	B3	Sqm	1	2	1.13		2.26
4	B4-Long	Sqm	1	3.2	1.13		3.62
5 6	B4-Short B5	Sqm Sqm	<u>1</u>	3.25	1.13 1.13		1.13 3.67
	B6	Sqm	1	3.25	1.13		3.67
8	B7	Sqm	1	3.25	1.05		3.41
	B8	Sqm	3	12.86	1.20		46.30
10	B9	Sqm Sqm	5 7	10.5 10.5	1.20 1.13		63.00

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Towasa Basm	Sqm				Total	240.43
	Terrace Beam Terrace Beam						
1	TB1	Sqm	2	13.2	1.45		38.28
2	TB2	Sqm	2	13.2	1.50		39.60
3	TB2-Short	Sqm	6	6.23	1.50		56.07
4	TB3	Sqm	4	6.15	1.80		44.28
5	TB4	Sqm	2	6.15	1.43		17.59
6	TB5	Sqm	2	13.2	1.80		47.52
7	TB5	Sqm	2	1	1.80		3.60
8	TB6	Sqm	2	13.2	1.80		47.52
9	TB7	Sqm	2	19.25	1.43		55.06
10	TB8	Sqm	2	6.5	1.50		19.50
11 12	TB8	Sqm Sqm	2	19.3 12.4	1.50 1.50		57.90 37.20
13	TB9	Sqm	2	12.4	1.80		44.64
14	TB10	Sqm	2	3	1.13		6.78
15	TB11	Sqm	2	3.3	1.05		6.93
16	TB12	Sqm	4	15.9	1.13		71.87
-10	1812	Sqm		10.0	1.10	Total	594.33
							23 1130
33	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for columns, pillars, post and struts, square I rectangular/ polygon in plan including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.32,Pg.No.16)						
	Column RCC (Footing to Plinth Level)						
	C6	Sqm	2	1.8		2.50	9.00
	C7	Sqm	15	1.6		2.60	62.40
	Jackating of Column	Sqm					
	Grid C,E and 1	Sqm	2	2.02		2.60	10.50
	Grid A and 2	Sqm	1	2.16		2.60	5.62
	Grid F and 1,3	Sqm	2	2.16		2.60	11.23
	Grid E and 5	Sqm	1	2.02		2.60	5.25
		Sqm					
	Column RCC ( Plinth Level First Floor Level)	0	0	4.0		0.00	40.00
	C6 C7	Sqm	2 15	1.8 1.6		3.60	12.96
	Security Cabin Column	Sqm Sqm	15	1.0		3.60	86.40
	C5,C10,C6,C11	Sqm	4	1.26		6	30.24
	C7,C8,C9	Sqm	3	1.26		6	22.68
	C1,C2	Sqm	2	1.26		6	15.12
	C3,C4,C12,C13	Sqm	4	1.26		6	30.24
	Jackating of Column	Sqm					
	Grid C,E and 1	Sqm	2	2.02		3.60	
	Grid A and 2	Sqm	1	2.16		3.60	
	Grid F and 1,3	Sqm	2	2.16		3.60	
	Grid E and 5	Sqm	1	2.02		3.60	
		Sqm				Total	301.64
	Column BOO / First Floor (a Const. LET						
	Column RCC ( First Floor to Second Floor ) C6	Cam	0	4.0		3.6	12.96
	C7	Sqm Sqm	2 15	1.8 1.6		3.6	12.96 86.40
	Jackating of Column	Sqiii	15	1.0		3.0	0.00
	Grid C,E and 1	Sqm	2	2.02		3.60	14.54
	Grid A and 2	Sqm	1	2.02		3.60	7.78
	Grid F and 1,3	Sqm	2	2.16		3.60	15.55
	Grid E and 5	Sqm	1	2.02		3.60	7.27
	Other Column	Sqm	24	1.22		3.60	105.41
		Sqm		· <b>-</b>		Total	249.91
		•					
	Column RCC ( Second Floor to Third Floor )				-		
	C6	Sqm	2	1.8		3.6	12.96
		1	0.4	1.22		3.6	105.41
		Sqm	24	1.22		Total	118.37

Sr. No.	Description	Unit	No's	L	В	н	Qty.
34	KSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal of formworkfor suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications.  Specifications No. KBS 4.6.2.  do 0 to 5 mts						
	(KPWD 18-19,SI.No.4.29.2,Pg.No.16)						
	First Floor slab	0	4	40.00	0.70		50.54
	Slab RCC Security Cabin	Sqm Sqm	1	13.66 1.93	3.70 1.20		50.54 2.31
	Jecunty Cabin	Sqiii	ı	1.93	1.20	Total	52.85
	Second Level Slab						02.00
	Slab RCC	Sqm	1	13.66	3.70		50.54
							50.54
	Terrace Level Slab						
	Slab RCC	Sqm	1	19.00	14.00		266.00
	Store Room Lift Room	Sqm Sqm	1	3.4 5.3	5.03 2.80	+	17.10 14.84
	LIII KOOIII	Sqiii	I	5.5	2.00	Total	297.94
				+		iotai	231.34
35	KSRB 4-6.11: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.38,Pg.No.17)						
	Staire Case-Ground Floor to First Floor						
	Flight	Sqm	2	3.45	1.5		10.35
	Riser	Sqm	22	3.45	0.165		12.52
						Total	22.87
36	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chajja, corbels etc., including edges including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.37,Pg.No.17)						
	Second Floor						
	Chajja	_					
	Long Side-Bottom	Sqm	2	15.4	0.9		27.72
	Short Side-Bottom Long Side-Sides	Sqm Sqm	2 2	13.2 15.4	0.9 0.15		23.76 4.62
	Short Side-Bottom	Sqm	2	13.2	0.15		3.96
	Chort Glad Bottom	Sqm		10.2	0.10	Total	60.06
37	KSRB 4-6.4: 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.  Specification No. KBS 4.6.2						
	Ground Floor	Sam	2.00	7.60		2.6	E 4 70
	First Floor	Sqm Sqm	2.00	7.60 7.60		3.6 3.6	54.72 54.72
	Second Floor	Sqm	2.00	7.60		3.6	54.72
	Third Floor	Sqm	2.00	7.60		3.6	54.72
		Sqm				Total	218.88

Sr. No.	Description	Unit	No's	L	В	н	Qty.
38	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 I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500 (KPWD 18-19,SI.No.4.46.2,Pg No.18)		Concret e in Cum	Kg/Cum	Kg		МТ
	Foundation and Ground Floor						
	Footing		176.53		17652.52		17.65
	Beam Column		18.93 33.67	100 120			1.89 4.04
	Lift Wall		6.84	100	684.48		0.68
	Slab		0.29	120	34.65		0.03
			0.00	.=-		Total	24.31
	First Floor						
	Beam		24.67	100			2.47
	Column Lift Woll		14.56		1747.526		1.75
	Lift Wall Slab		3.97 5.02	100 120	397.44 602.9037		0.40 0.60
	OIGD		3.02	120	002.9001	Total	5.21
	Second Floor					1000	V.E.I
	Beam		67.30	100	6729.69		6.73
	Column		8.85	120	1061.683		1.06
	Lift Wall		3.97	100	397.44		0.40
	Slab		7.60	100			0.76
	Staire Case		3.74	100	374.175	Total	0.37 <b>9.32</b>
	Terrace Floor					iotai	9.32
	Slab		40.08	100.00	4008		4.01
	Column		14.36		1722.708		1.72
	Lift Wall		6.73	100	672.84		0.67
			437.11	0.00		Total	6.40
39	Providing fusion bonded epoxy coating not less than 175 microns thickness and upto 300 microns to reinforcement of all diameters as per IS: 13620-1993 including testing of coating at plant The rate isinclusive of cost on account of careful handling, PVC coated binding wire instead of GI Binding wire, touch up material supplied by coating agency, repair work, loading, unloading and straightening of bent rods etc., complete as per specification and as directed by the Engineer in charge. do For 10mm to 16mm dia bars (KPWD 18-19,SI.No.7.21.1,Pg.No.40)	Mt	1.00	45.25			45.25
40	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying, priming coat of approved steel primer all complete. (CPWD 2018, SI.No.10.2, Pg.No.183)						
	Roof Truss	Sqm	1.00	14.00 Sqm	4.00 Kg/Sqm		56.00
	Structural Steel @ 40kg/Sqm	Kg	1.00	56.00	40.00		2240.00
	Qty in MT	MT					2.24
41	Refixing the existing Structural steel (Roof Truss) work riveted, bolted or welded in built up sections, trusses andframed work, including cutting, hoisting, fixing in position and applying a primingcoat of approved steel primer all complete (Rate Analysis)						
	Total Roof Area	Sqm	1.00	14.00	13.00		182.00
				Sqm	kg/sqm		
	Assume Steel per Sqm @ 40kg/Sqm	Kg		182.00	40.00		7280.00

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
42	Fixing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. (Rate Analysis)	Sqm	1.00	18.00	15.00		270.00
43	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.  1.00 mm thick with zinc coating not less than 275 gm/m² (CPWD)						
	Sheet	Sqm	1.00	16.00	5.50		88.00
44	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. KBS KSRB 14.6-1: do- heavy duty cobble stones 60mm thick (KPWD 18-19,SI.No.14.6,Pg.No.103)						
	Hardscape Area	Sqm	1	98			986.00
	Area under paragola	Sqm	1	13.2	7	Total	92.40 <b>1078.40</b>
45	Providing and laying eco-loc permeable pavers,80mm or equivalent 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.						
	Four Wheeler Parking Area Two Wheeler Parking Area	Sqm Sqm	1	99			996.00 177.00
		Sqm					1173.00
46	Providing and fixing 15cm wide,45cm overall semi circular plain GS Sheet gutter with iron brackets 40 x 3mm size,bolts,nuts and washers etc, including making necessary connections with rain water pipes complete, 0.8mm thick with zinc coating not less than 275gm/m2 (CPWD 2018,SI.No.12.7.1,Pg.No.211)						
	Long Side	Rm Rm	2	20		Total	40.00 <b>40.00</b>

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
47	Providing and fixing unplasticised PVC pipes with working pressure 10 kg/sq.cm with pipe fittings, clips, making good the floor, including cost of all materials, labour charges, HOM and testing complete as per specifications. do- with 160mm outer dia KPWD 18-19,SI.No.11.56.4,Pg.No.77						
	Downtake Pipe for Rain Water for Lower Roof	Rm	11	12.5		Total	137.50
		Rm				Total	137.50
48	Providing and constructing 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 3.5 N/mm2 for saturated dry samples.  For basement in CM 1:6 (Cement 45 kgs/M3) (KPWD 2018-19,42.5.1)						
	Masonary Below Plinth Lvl. 230 mm Thk. Wall						
	Long Wall	Cum	2	20	0.23	0.5	4.6
	Short Wall	Cum	2	14	0.23	0.5	3.22
	Ramp	Cum	1	74	0.23	0.5	8.51
	Compound Wall	Cum	1	150	0.23	3	103.5
		Cum					119.83
	Ground Floor						
	Security Cabin-Long Wall	Cum	2	1.8	0.23	3.6	2.98
	Security Cabin-Short Wall	Cum	2	1.2	0.23	3.6	1.99
	Door Deduction Window Deduction	Cum Cum	-1 -1	1.2	0.23 0.23	2.1 1.2	-0.48 -0.33
	External Wall	Cum	1	25	0.23	3.6	20.7
	Compound Wall	Cum	1	150	0.23	3.0	103.5
	Gate Deducrion	Cum	-1	3	0.23	3	-2.07
	Gate Deducrion	Cum	-1	1.5	0.23	3	-1.04
							125.25
	First Floor						
	Provisional Qty	Cum	1	5	0.23	3.6	4.14
	For super structure in CM 1:6 (Cement 45 kgs/M3)- Second Floor (KPWD 2018-19,42.5.3)						
	Long Wall	Cum	2.00	20.00	0.23	3.60	33.12
	Short Wall	Cum	2.00	14.00	0.23	3.60	23.18
	External Wall	Cum	1	25	0.23	3.60	20.7
	Window Ded.(1.5m Wide)	Cum	-7.00	1.50	0.23	1.20	-2.90
	Window Ded.(2.0m Wide)	Cum	-4.00	2.00	0.23	1.20	-2.21
	Ventilators	Cum	-6.00	0.60	0.23	0.90	-0.75 <b>71.15</b>
49	Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete) Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications.  with 600x200x150mm size Blocks (KPWD 18-19,SI.No.6.32.2,Pg.No.31)						
	Ground Floor Toilet Partition wall	Cum	1	3.245	0.15	3.45	1.68
	Toilet Partition wall Toilet -Pantry Partition	Cum	1 2	1.93	0.15	3.45	2.00
	Gents-Ladies toilet partition wall	Cum	1	2.08	0.15	3.45	1.08
	Toilet Main wall	Cum	1	4.99	0.15	3.45	2.58
	Door	Cum	-3	0.75	0.15	2.1	-0.71
	Store room wall	Cum	1	3.075	0.15	3.45	1.59
	Lift Brickwork	Cum	1	2	0.15	3.45	1.04

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Lift Door Deduction	Cum	-1	1	0.15	2.1	-0.32
	First Floor						8.94
	First Floor Toilet Internal Wall	Cum	1	3.243	0.15	3.45	1.68
	Toilet Partition Wall	Cum	1	1.6	0.15	3.45	0.83
	Plan file store room Shortwall	Cum	1	6.01	0.15	3.45	3.11
	Counter Longwall	Cum	1	6.16	0.15 0.15	3.45	3.19
	Counter Shortwall Gents toilet wall	Cum Cum	1	5.03 1.93	0.15	3.45 3.45	2.6
	Gents-Ladies Partition wall	Cum	1	2.08	0.15	3.45	1.08
	Gents Ladies Entry wall	Cum	1	3.38	0.15	3.45	1.75
	Doors	Cum	-2	0.75	0.15	2.1	-0.47
	Ladies toilet- Pantry Partition wall Pantry-Store Partition	Cum Cum	1	2.7 3.305	0.15 0.15	3.45 3.45	1.4 1.71
	Store room Shortwall	Cum	1	1.309	0.15	3.45	0.68
	Lift Brickwork	Cum	1	2	0.15	3.45	1.04
-	Lift Door Deduction	Cum	-1	1	0.15	2.1	-0.32
	Second Floor				-		19.28
	Store room partition	Cum	1	1.99	0.15	3.45	1.03
	Gents toilet- store room partition	Cum	1	1.93	0.15	3.45	1.00
	Ladies- Gents Toilet Partition	Cum	1	2.08	0.15	3.45	1.08
	Ladies- Pantry Partition	Cum	1	2.69	0.15	3.45	1.39
	Pantry-Store Partition Toilet combined main entry wall	Cum Cum	1	3.305 3.38	0.15 0.15	3.45 3.45	1.71 1.75
	Doors	Cum	-2	0.75	0.15	2.1	-0.47
	Store room shortwall	Cum	1	1.309	0.15	3.45	0.68
	Drinking water shortwall	Cum	1	0.75	0.15	3.45	0.39
	Windows	Cum	-2	1	0.15	1.2	-0.36
	Toilet-Storage Room common wall Doors	Cum Cum	2	8.39 0.75	0.15 0.15	3.45 2.1	4.34 0.47
-	Toilet Partition	Cum	1	1.6	0.15	3.45	0.47
	Lift Brickwork	Cum	1	2	0.15	3.45	1.04
	Lift Door Deduction	Cum	-1	1	0.15	2.1	-0.32
-	Third Floor						14.56
	Third Floor Drinking water facility wall	Cum	1	3.0551	0.15	3	1.37
	Staircase frontwall	Cum	1	3	0.15	3	1.35
	Door	Cum	1	1	0.15	2.1	0.32
-	Lift Brickwork Lift Door Deduction	Cum	1	2	0.15 0.15	2.1	0.9
	Lift Door Deduction	Cum Cum	-1	<u> </u>	0.15	Total	-0.32 <b>3.62</b>
						· ota-	0.02
50	Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete) Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications.  with 600x200x230mm size Blocks (KPWD 18-19,SI.No.6.32.4,Pg.No.31)						
	Ground Floor						
	Toilet External wall Doors	Cum Cum	-2	3.245 0.75	0.23 0.23	3.45 2.1	2.57 -0.72
	External Wall -1	Cum	1	13.21	0.23	3.45	10.48
	Door	Cum	-1	1.8	0.23	2.1	-0.87
	Service Duct	Cum	2	1.013	0.23	3.45	1.61
	First Floor						13.07
	External Main wall	Cum	1	13.21	0.23	3.45	10.48
	Toilet External Wall	Cum	1	3.243	0.23	3.45	2.57
	Windows	Cum	-2	0.6	0.23	1.2	-0.33
	Service Duct	Cum	2	1.021	0.23	3.45	1.62
	Plan file store room longwall	Cum	1	6.22	0.23	3.45	4.94
	Storage wall	Cum	1	3.07	0.23	3.45	2.44 <b>21.72</b>
	Second Floor						
	External wall west side	Cum	1	20	0.23	3.45	15.87

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Small Windows	Cum	-2	0.6	0.23	1.2	-0.33
	Large Windows	Cum	-5	1.5	0.23	1.2	-2.07
	External wall east side	Cum	1	17.08	0.23	3.45	13.55
	Large Windows	Cum	-2	2	0.23 0.23	1.2	-1.1
	External wall north side Small Windows	Cum Cum	<u>1</u> -4	13.2 0.6	0.23	3.45 1.2	10.47 -0.66
	Large Windows	Cum	- <del>4</del> -2	1.5	0.23	1.2	-0.83
	External wall south side	Cum	1	10.74	0.23	3.45	8.52
	Large Windows	Cum	-2	2	0.23	1.2	-1.1
	Staircase Walls	Cum	2	4.355	0.23	3.45	6.91
	Passage wall	Cum	1	3	0.23	3.45	2.38
	Service Duct walls	Cum	2	1.021	0.23	3.45	1.62
	Drinking water longwall	Cum	1	1.399	0.23	3.45	1.11
	Partition wall	Cum	1	3.24	0.23	3.45	2.57
	Storage room shortwall	Cum	1	1.32	0.23	3.45	1.05
	Toilet sidewall	Cum	1	2.16	0.23	3.45	1.71
							59.67
	Third Floor			10.0			
	External wall North side	Cum	1	13.2	0.23	1.1	3.34
	External wall South side	Cum	1	10.968	0.23	1.1	2.77
	External wall West side External wall East side	Cum	1	19.54	0.23 0.23	1.1	4.94
-	External wall East side Storage Longwall	Cum Cum	1	17.08 4.27	0.23	3	4.32 2.95
	Storage Longwall Storage Shortwall	Cum	1	3.03	0.23	3	2.95
-	Wall beside Staircase	Cum	1	5.93	0.23	3	4.09
	Wall beside Staircase	Cum	1	4.35	0.23	3	3.00
	Lift Longwall	Cum	1	4.92	0.23	3	3.39
	Lift Shortwall	Cum	1	2.45	0.23	3	1.69
		Cum			0.20	Total	32.58
51	rounding off corners wherever required srnooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. do- cement mortar 1:4 (KPWD 18-19,SI.No.15.13,Pg.No.115)						
	Ground Floor						
1	Document Submission & Lobby	Cam	1	12.76		2.45	44.02
<u> </u>	Longwall-1 Door	Sqm Sqm	-2	12.76		3.45 2.1	-4.62
2	Shortwall-1	Sqm	2	3.245		3.45	22.39
	Lift Door	Sqm	-1	3.243		2.1	-2.1
3	Longwall-2	Sqm	1	8.817		3.45	30.42
	Door	Sqm	-2	1.1		2.1	-4.62
4	Shortwall-2	Sqm	1	4.267		3.45	14.72
	Door	Sqm	-1	1.8		2.1	-3.78
	Security Cabin						
	Long Wall	Sqm	2	1.5		3	9
	Short wall	Sqm	2	2		3	12
		Sqm				Total	117.43
	First Floor						
	Waiting Area & Lift Lobby	C		0.000		0.45	010-
1	Longwall-1	Sqm	2	9.369		3.45	64.65
	Window Door	Sqm Sqm	-2 -1	1.8		1.2 2.1	-4.8 -3.78
2	Shortwall	Sqm	2	3.242		3.45	22.37
	Door	Sqm	-2	0.75		2.1	-3.15
<b> </b>	Lift Door	Sqm	- <u>-</u> 2 -1	1		2.1	-2.1
3	Longwall-2	Sqm	1	12.75		3.45	43.99
	Door	Sqm	-1	1.8		2.1	-3.78
		Sqm	· ·	1		Total	113.4
	Second Floor	~ 4				7.0101	
	Store Room-1						
1	Longwall-1	Sqm	1	3.185		3.45	10.99
	Window	Sqm	-1	1.5		1.2	-1.8
2	Longwall-2	Sqm	1	3.075	·	3.45	10.61
	Window	Sqm	-1	1.5		1.2	-1.8
3	Shortwall-1	Sqm	1	1.99		3.45	6.87

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Store room -2						
1	Longwall-1	Sqm	1	3.185		3.45	10.99
	Window	Sqm	-1	1.5		1.2	-1.8
2	Shortwall-1	Sqm	1	1.99		3.45	6.87
3	Shortwall-2	Sqm	1	1.93		3.45	6.66
	Pantry						
1	Shortwall-1	Sqm	1	1.459		3.45	5.03
_	Window	Sqm	-1 1	0.6 3.305		1.2 3.45	-0.72 11.4
3	Longwall-1 Longwall-2	Sqm Sqm	1	3.305		3.45	11.4
3	Longwan-2	Sqiii	ı	3.303		3.43	11.4
	Store						
1	Shortwall-1	Sqm	1	1.459		3.45	5.03
2	Window	Sqm	-1	0.6		1.2	-0.72
3	Shortwall-2	Sqm	1	1.309		3.45	4.52
<u>4</u> 5	Longwall-1 Longwall-2	Sqm	1	3.305		3.45	11.4 10.61
5	Longwaii-2	Sqm	ı	3.075		3.45	10.61
	Office			10.00		2	40 ==
1	External wall -westside	Sqm	1	12.69		3.45	43.78
2	Windows Longwall-1	Sqm Sqm	-4 1	1.5 3.45		1.2 3.45	-7.2 11.9
3	Shortwall-1	Sqm	1	1.32		3.45	4.55
4	Shortwall-2	Sqm	1	1.499		3.45	5.17
		- Jan				01.10	0
	Storage						
1	Longwall-1	Sqm	1	5.28		3.45	18.22
2	Shortwall-1 Shortwall-2	Sqm	1	3.24 3.649		3.45	11.18
3	Doors	Sqm Sqm	1 -2	0.75		3.45 2.1	12.59 -3.15
4	Longwall-2	Sqm	1	1.54		3.45	5.31
5	Shortwall-3	Sqm	1	0.75		3.45	2.59
	Drinking water wall						
1	Longwall-1	Sqm	1	1.399		3.45	4.83
2	Shortwall-1	Sqm	1	0.75		3.45	2.59
	Pantry Passage walls						
1	Longwall	Sqm	1	1.464		3.45	5.05
•	Door	Sqm	-1	0.75		2.1	-1.58
						۷.۱	
						2.1	
1	External wall - east side	Sam	1	12.69			43.78
1	External wall - east side Window	Sqm Sqm	1 -4	12.69		3.45 1.2	
1	Window					3.45	
	Window Staircase passage walls	Sqm	-4	2		3.45	-9.6
1	Window  Staircase passage walls  Longwall-1	Sqm Sqm	-4	4.504		3.45 1.2 3.45	-9.6 31.08
	Window  Staircase passage walls  Longwall-1  Shortwall-1	Sqm	-4	2		3.45	-9.6 31.08
1 2	Window  Staircase passage walls  Longwall-1  Shortwall-1  Lift Passage	Sqm Sqm Sqm	-4 2 1	4.504		3.45 1.2 3.45 3.45	43.78 -9.6 31.08 10.35
1 2	Window  Staircase passage walls  Longwall-1  Shortwall-1  Lift Passage  Longwall-1	Sqm Sqm Sqm	-4 2 1	4.504 3 4.05		3.45 1.2 3.45 3.45 3.45	-9.6 31.08 10.35
1 2	Window  Staircase passage walls  Longwall-1 Shortwall-1  Lift Passage  Longwall-1 Longwall-2	Sqm Sqm Sqm Sqm	-4 2 1	4.504 3 4.05 4.44		3.45 1.2 3.45 3.45 3.45	-9.6 31.08 10.35 13.97 15.32
1 2 1 2 3	Window  Staircase passage walls  Longwall-1 Shortwall-1  Lift Passage  Longwall-1 Longwall-2 Shortwall-1	Sqm Sqm Sqm Sqm Sqm Sqm Sqm	-4 2 1 1 1 1	4.504 3 4.05 4.44 2.27		3.45 1.2 3.45 3.45 3.45 3.45 3.45	-9.6 31.08 10.35 13.97 15.32 7.83
1 2	Window  Staircase passage walls  Longwall-1  Shortwall-1  Lift Passage  Longwall-1  Longwall-2  Shortwall-1  Shortwall-2	Sqm Sqm Sqm Sqm	-4 2 1	4.504 3 4.05 4.44		3.45 1.2 3.45 3.45 3.45	-9.6 31.08 10.35 13.97 15.32 7.83 11.18
1 2 1 2 3	Window  Staircase passage walls  Longwall-1  Shortwall-1  Lift Passage  Longwall-1  Longwall-2  Shortwall-1  Shortwall-2  Terrace Floor	Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm	-4 2 1 1 1 1	4.504 3 4.05 4.44 2.27		3.45 1.2 3.45 3.45 3.45 3.45 3.45 3.45	-9.6 31.08 10.35 13.97 15.32 7.83 11.18
1 2 1 2 3 4	Window  Staircase passage walls  Longwall-1  Shortwall-1  Lift Passage  Longwall-1  Longwall-2  Shortwall-1  Shortwall-2  Terrace Floor  Storage room	Sqm	-4 2 1 1 1 1	4.504 3 4.05 4.44 2.27 3.24		3.45 1.2 3.45 3.45 3.45 3.45 3.45 3.45	-9.6 31.08 10.35 13.97 15.32 7.83 11.18 345.28
1 2 3 4 1	Window  Staircase passage walls  Longwall-1  Shortwall-1  Lift Passage  Longwall-1  Longwall-2  Shortwall-1  Shortwall-2  Terrace Floor  Storage room  Longwall	Sqm	-4 2 1 1 1 1 1	4.504 3 4.05 4.44 2.27 3.24	3	3.45 1.2 3.45 3.45 3.45 3.45 3.45 3.45	-9.6 31.08 10.35 13.97 15.32 7.83 11.18 345.28
1 2 1 2 3 4	Window  Staircase passage walls  Longwall-1  Shortwall-1  Lift Passage  Longwall-1  Longwall-2  Shortwall-1  Shortwall-2  Terrace Floor  Storage room	Sqm	-4 2 1 1 1 1	4.504 3 4.05 4.44 2.27 3.24	3 3 2.1	3.45 1.2 3.45 3.45 3.45 3.45 3.45 3.45	-9.6 31.08 10.35 13.97 15.32 7.83 11.18 <b>345.28</b>
1 2 3 4 1	Window  Staircase passage walls  Longwall-1  Shortwall-1  Lift Passage  Longwall-2  Shortwall-1  Shortwall-2  Terrace Floor  Storage room  Longwall  Shortwall  Door	Sqm	-4 2 1 1 1 1 1 2 2	4.504 3 4.05 4.44 2.27 3.24 4.5 2.805	3	3.45 1.2 3.45 3.45 3.45 3.45 3.45 3.45	-9.6 31.08 10.35 13.97 15.32 7.83 11.18 345.28 27 16.83 -2.1
1 2 3 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Window  Staircase passage walls  Longwall-1  Shortwall-1  Lift Passage  Longwall-1  Longwall-2  Shortwall-1  Shortwall-2  Terrace Floor  Storage room  Longwall  Shortwall  Door	Sqm	-4 2 1 1 1 1 1 2 2 -1	4.504 3 4.05 4.44 2.27 3.24 4.5 2.805	3 2.1	3.45 1.2 3.45 3.45 3.45 3.45 3.45 3.45	-9.6 31.08 10.35 13.97 15.32 7.83 11.18 345.28 27 16.83 -2.1
1 2 3 4 1 2 2 1 1	Window  Staircase passage walls  Longwall-1  Shortwall-1  Lift Passage  Longwall-1  Longwall-2  Shortwall-1  Shortwall-2  Terrace Floor  Storage room  Longwall  Shortwall  Door  Staircase  Longwall-1	Sqm	-4 2 1 1 1 1 1 2 2 -1	4.504 3 4.05 4.44 2.27 3.24 4.5 2.805 1	3 2.1	3.45 1.2 3.45 3.45 3.45 3.45 3.45 3.45	-9.6 31.08 10.35 13.97 15.32 7.83 11.18 345.28 27 16.83 -2.1 0 19.82
1 2 3 4 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	Window  Staircase passage walls  Longwall-1  Shortwall-1  Lift Passage  Longwall-1  Longwall-2  Shortwall-1  Shortwall-2  Terrace Floor  Storage room  Longwall  Shortwall  Door  Staircase  Longwall-1  Longwall-1  Longwall-2	Sqm	-4  2 1 1 1 1 1 2 2 -1 1 1 1	4.504 3 4.05 4.44 2.27 3.24 4.5 2.805 1	3 2.1 3 3	3.45 1.2 3.45 3.45 3.45 3.45 3.45 3.45	-9.6 31.08 10.35 13.97 15.32 7.83 11.18 345.28 27 16.83 -2.1 0 0 19.82 13.51
1 2 3 4 1 2 2 1 1	Window  Staircase passage walls  Longwall-1  Shortwall-1  Lift Passage  Longwall-2  Shortwall-1  Shortwall-2  Terrace Floor  Storage room  Longwall  Shortwall  Door  Staircase  Longwall-1  Longwall-2  Shortwall  Door	Sqm	-4  2 1 1 1 1 1 2 2 -1 1 1 2	4.504 3 4.05 4.44 2.27 3.24 4.5 2.805 1 6.61 4.50 3	3 2.1 3 3 3	3.45 1.2 3.45 3.45 3.45 3.45 3.45 3.45	-9.6 31.08 10.35 13.97 15.32 7.83 11.18 345.28 27 16.83 -2.1 0 0 19.82 13.51
1 2 3 4 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	Window  Staircase passage walls  Longwall-1  Shortwall-1  Lift Passage  Longwall-1  Longwall-2  Shortwall-1  Shortwall-2  Terrace Floor  Storage room  Longwall  Shortwall  Door  Staircase  Longwall-1  Longwall-1  Longwall-2	Sqm	-4  2 1 1 1 1 1 2 2 -1 1 1 1	4.504 3 4.05 4.44 2.27 3.24 4.5 2.805 1	3 2.1 3 3	3.45 1.2 3.45 3.45 3.45 3.45 3.45 3.45	-9.6 31.08 10.35 13.97 15.32 7.83 11.18 345.28 27 16.83 -2.1 0 19.82 13.51 18 -2.1
1 2 3 4 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	Window  Staircase passage walls  Longwall-1  Shortwall-1  Lift Passage  Longwall-2  Shortwall-1  Shortwall-2  Terrace Floor  Storage room  Longwall  Shortwall  Door  Staircase  Longwall-1  Longwall-2  Shortwall  Door	Sqm	-4  2 1 1 1 1 1 2 2 -1	4.504 3 4.05 4.44 2.27 3.24 4.5 2.805 1 6.61 4.50 3 1	3 2.1 3 3 3 2.1	3.45 1.2 3.45 3.45 3.45 3.45 3.45 3.45	-9.6 31.08 10.35 13.97 15.32 7.83 11.18 345.28 27 16.83 -2.1 0 19.82 13.51 18 -2.1

Sr. No.	Description	Unit	No's	L,	В	н	Qty.
52	KSRB15-5: Providing rough cement plastering 15mm thick in single coat with cement mortar to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)						
	Ground Floor						
	Toilet (2 Nos.) Long Wall	Sqm	4	2.00		3.6	28.8
	Short Wall	Sqm	4	1.60		3.6	23.04
	Door Deduction	Sqm	-2	0.75		2.1	-3.15
	Ventilator Deduction	Sqm	-2	0.60		0.9	-1.08
	Gents Toilet						
	Long Wall	Sqm	2	1.50		3.6	10.8
	Short Wall	Sqm	2	1.90		3.6	13.68
	Door Deduction	Sqm	-1	0.75		2.1	-1.58
	Ventilator Deduction	Sqm	-1	0.60		0.9	-0.54
	Ladies Toilet Long Wall	Sqm	2	1.50		3.6	10.8
	Short Wall	Sqm	2	1.90		3.6	13.68
	Door Deduction	Sqm	-1	0.75		2.1	-1.58
	Ventilator Deduction	Sqm	-1	0.60		0.9	-0.54
	Staff Room-Pantry						
	Long Wall	Sqm	2	1.50		3.6	10.8
	Short Wall	Sqm	1	3.00		3.6	10.8
	Window Ded.	Sqm	-1	0.60		0.9	-0.54
						Total	113.39
	First Floor						
	Toilet (2 Nos.)						
	Long Wall	Sqm	4	2.00		3.6	28.8
	Short Wall Door Deduction	Sqm Sqm	4 -2	1.60 0.75		3.6 2.1	23.04 -3.15
	Ventilator Deduction	Sqm	-2 -2	0.75		0.9	-1.08
		- 1		0.00			
	Gents Toilet						
	Long Wall Short Wall	Sqm Sqm	2	1.50 1.90		3.6	10.8 13.68
	Door Deduction	Sqm	2 -1	0.75		3.6 2.1	-1.58
	Ventilator Deduction	Sqm	-1	0.60		0.9	-0.54
	Ladies Toilet						
	Long Wall	Sqm	2	1.50		3.6	10.8
	Short Wall Door Deduction	Sqm Sqm	2 -1	1.90 0.75		3.6 2.1	13.68 -1.58
	Ventilator Deduction	Sqm	-1	0.60		0.9	-0.54
	Staff Room-Pantry	C	0	4.50		2.0	40.0
	Long Wall Short Wall	Sqm Sqm	2 1	1.50 3.00		3.6 3.6	10.8 10.8
	Window Ded.	Sqm	-1	0.60		0.9	-0.54
						Total	113.39
	0 15 5						
	Second Floor Floor Toilet (4 Nos.)						
	Long Wall	Sqm	8	2.00		3.6	57.6
	Short Wall	Sqm	8	1.60		3.6	46.08
	Door Deduction	Sqm	-4	0.75		2.1	-6.3
	Ventilator Deduction	Sqm	-4	0.60		0.9	-2.16
	Gents Toilet						
	Long Wall	Sqm	4	1.50		3.6	21.6
	Short Wall	Sqm	4	1.90		3.6	27.36
ļ	Door Deduction	Sqm	-2	0.75		2.1	-3.15
	Ventilator Deduction  Ladies Toilet	Sqm	-2	0.60		0.9	-1.08
	Long Wall	Sqm	4	1.50		3.6	21.6
	Short Wall	Sqm	4	1.90		3.6	27.36

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Door Deduction	Sqm	-2	0.75		2.1	-3.15
	Ventilator Deduction	Sqm	-2	0.60		0.9	-1.08
	Staff Room-Pantry						
	Long Wall	Sqm	2	1.50		3.6	10.8
	Short Wall	Sqm	1	3.00		3.6	10.8
	Window Ded.	Sqm	-1	0.60		0.9	-0.54
						Total	205.74
53	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification.  (KPWD 18-19,SI.No.15.106,Pg.No.128)						
	Ground Floor						
1	Document Submission & Lobby Longwall-1	Sqm	1	12.76		3.45	44.02
	Longwall-1   Door	Sqm	-2	12.76		2.10	-4.62
2	Shortwall-1	Sqm	2	3.25		3.45	22.39
	Lift Door	Sqm	-1	1.00		2.10	-2.1
3	Longwall-2	Sqm	1	8.82		3.45	30.42
	Door	Sqm	-2	1.10		2.10	-4.62
4	Shortwall-2	Sqm	1	4.27		3.45	14.72
	Door Security Cabin	Sqm	-1	1.80		2.10	-3.78
	Long Wall	Sqm	2	1.50		3.00	9
	Short Wall	Sqm	2	2.00		3.00	12
	Ceiling	Sqm	1	1.50		2.00	3
		Sqm				Total	120.43
	First Floor						
1	Waiting Area & Lift Lobby Longwall-1	Sqm	2	9.37		3.45	64.65
1	Window	Sqm	-2	2.00		1.20	-4.8
	Door	Sqm	-1	1.80		2.10	-3.78
2	Shortwall	Sqm	2	3.24		3.45	22.37
	Door	Sqm	-2	0.75		2.10	-3.15
	Lift Door	Sqm	-1	1.00		2.10	-2.1
3	Longwall-2	Sqm	1	12.75		3.45	43.99
	Door	Sqm	-1	1.80		2.10 Total	-3.78 <b>113.4</b>
	Second Floor	Sqm				TOtal	113.4
	Store Room-1						
1	Longwall-1	Sqm	1	3.19		3.45	10.99
	Window	Sqm	-1	1.50		1.20	-1.8
2	Longwall-2	Sqm	1	3.08		3.45	10.61
2	Window Shortwall-1	Sqm	-1	1.50 1.99		1.20	-1.8
3	GHORWAII* I	Sqm	1	1.99		3.45	6.87
	Store room -2						
1	Longwall-1	Sqm	1	3.19		3.45	10.99
	Window	Sqm	-1	1.50		1.20	-1.8
2	Shortwall-1	Sqm	1	1.99		3.45	6.87
3	Shortwall-2	Sqm	1	1.93		3.45	6.66
	Pantry						
1	Shortwall-1	Sqm	1	1.46		3.45	5.03
<u>'</u>	Window	Sqm	-1	0.60		1.20	-0.72
2	Longwall-1	Sqm	1	3.31		3.45	11.4
3	Longwall-2	Sqm	1	3.31		3.45	11.4
	Store	0	4	4 40		0.4=	<b>5</b> .00
2	Shortwall-1 Window	Sqm Sqm	1 -1	1.46 0.60		3.45 1.20	5.03 -0.72
3	Shortwall-2	Sqm	1	1.31		3.45	-0.72 4.52
4	Longwall-1	Sqm	1	3.31		3.45	11.4
	Longwall-2	Sqm	1	3.08		3.45	10.61

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Office						
1	External wall -westside	Sqm	1	12.69		3.45	43.78
- '	Windows	Sqm	-4	1.50		1.20	-7.2
2	Longwall-1	Sqm	1	3.45		3.45	11.9
3	Shortwall-1	Sqm	1	1.32		3.45	4.55
4	Shortwall-2	Sqm	1	1.50		3.45	5.17
	Storage	_	4	5.00		0.45	10.00
1	Longwall-1	Sqm	1	5.28		3.45	18.22
3	Shortwall-1 Shortwall-2	Sqm Sqm	1	3.24 3.65		3.45 3.45	11.18 12.59
3	Doors	Sqm	-2	0.75		2.10	-3.15
4	Longwall-2	Sqm	1	1.54		3.45	5.31
5	Shortwall-3	Sqm	1	0.75		3.45	2.59
	Drinking water wall						
1	Longwall-1	Sqm	1	1.40		3.45	4.83
2	Shortwall-1	Sqm	1	0.75		3.45	2.59
	Pantry Passage walls					2.4-	<b>-</b> ^-
1	Longwall	Sqm	1	1.46		3.45	5.05
	Door	Sqm	-1	0.75		2.10	-1.58
1	External wall - east side	Sqm	1	12.69		3.45	43.78
- '	Window	Sqm	-4	2.00		1.20	-9.6
	Wildow	Oqiii	•	2.00		1.20	0.0
	Staircase passage walls						
1	Longwall-1	Sqm	2	4.50		3.45	31.08
2	Shortwall-1	Sqm	1	3.00		3.45	10.35
	Lift Passage						
1	Longwall-1	Sqm	1	4.05		3.45	13.97
2	Longwall-2	Sqm	1	4.44		3.45	15.32
3 4	Shortwall-1	Sqm	1	2.27 3.24		3.45 3.45	7.83 11.18
4	Shortwall-2	Sqm <b>Sqm</b>	ı	3.24		Total	345.28
	Terrace Floor	Sqiii				Total	343.20
	Storage room						
1	Longwall	Sqm	2	4.50		3.00	27
2	Shortwall	Sqm	2	2.81		3.00	16.83
	Door	Sqm	-1	1.00		2.10	-2.1
			0	0.00		0.00	0
	Staircase		0	0.00		0.00	0
1	Longwall-1	Sqm	1	6.61		3.00	19.82
2	Longwall-2	Sqm	1	4.50		3.00	13.51
3	Shortwall	Sqm	2	3.00		3.00	18
	Door Window	Sqm	-1 -1	1.00		2.10	-2.1
	VVIIIdow	Sqm Sqm	-1	2.00		1.20 <b>Total</b>	-2.4 <b>88.56</b>
		Sqiii				Total	00.30
54	KSRB15-3: Providing 12mm thick cement plaster in single coat with cement mortar, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification. do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)						
	Ground floor	C		44.00	7.00		00.00
	Ceiling	Sqm	1	14.00	7.00		98.00
	Security Cabin First Floor LVL	Sqm	1	1.50	2.00		3.00
	Ceiling	Sqm	1	14.00	7.00		98.00
	OGIIII I I	Sqiii	1	14.00	1.00		90.00
	Second Floor						
	Ceiling	Sqm	1	20.00	14.00		280.00
	g	2 q		_5.55			

Ground Floor -Short Wall   Sam   2   14.00   3.60   100.6	Sr. No.	Description	Unit	No's	L	В	н	Qty.
(KPVD 18-19; IND.15.16-Pg.No.116)   Sam   2   4.00   3.60   28.8	55	single coat with cement mortar 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.						
Ground Floor -Long Wall   Sam   2   4.00   3.60   28.8								
Ground Floor -Short Wall		Ground Floor -Long Wall	Sqm		4.00		3.60	28.8
First Floor-Short Wall   Sqm   2   14.00   3.60   100.6			Sqm					100.8
Second Floor External Wall								
Long Wall					14.00		3.00	100.6
Terrace Parapet Wall   Long Wall (Inside and Outside Plaster)   Sgm				2	20.50		3.60	147.6
Long Wall (Inside and Outside Plaster)			Sqm	2	13.20		3.60	95.04
Short Wall (Inside and Outside Plaster)			Carra	4	00.50		4.00	00.4
External Wall				-				
Add 20% Extra Qty.   Sqm   Total   1276.32								
Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement sturry mixed with playment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all materials, mortar, labour, etc. Complete as per specification. (KPWD 18-19,SIN:0.14.45.Pg.No.109)   Ground Flooring			- 4	_			0.00	212.72
make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with plants of tiles, including providing spacers at required interval and removing stains, including cost of all materials, mortar, labour, etc., Complete as per specification.  (KPWD 18-19,SLNn.14.45,Pg.Nn.109)  Ground Flooring Sqm 1 14.00 3.70 51.8.  Security Cabin Sqm 1 1.60 2.00 3.2.  Add 10% Extra City. Sqm 5.5.  Toilet Flooring Ded Sqm 1 1.60 2.00 3.2.  Add 10% Extra City. Sqm 5.5.  First Floor LVL. Sqm 1 14.00 3.70 51.8.  First Floor LVL. Sqm 1 14.00 3.70 51.8.  Add 10% Extra City. Sqm 7 1 14.00 3.70 51.8.  First Floor Sqm 1 14.00 3.70 51.8.  Add 10% Extra City. Sqm 1 14.00 3.70 51.8.  First Floor Sqm 1 14.00 3.70 51.8.  First Floor Sqm 1 14.00 3.70 51.8.  Second Floor LVL  Floor Sqm 1 19.50 13.30 259.38  Staircase Area Sqm 1 19.50 13.30 259.38  Terrace Floor LVL  Floor Sqm 1 19.50 13.30 259.38  Terrace Floor LVL  Floor Sqm 1 19.50 13.30 259.38  Terrace Floor LVL  Floor Sqm 1 19.50 13.30 259.38  Terrace Floor LVL  Floor Sqm 1 19.50 13.30 259.38  Terrace Floor LVL  Floor Sqm 1 19.50 13.30 259.38  Terrace Floor LVL  Floor Sqm 1 19.50 13.30 259.38  Terrace Floor LVL  Floor Sqm 1 19.50 13.30 259.38  Terrace Floor LVL  Floor Sqm 1 19.50 13.30 259.38  Total 245.85  Staircase Area Sqm 1 19.50 13.30 30 329.38  Total 245.85  Ground Floor Total 245.85  Ground Floor Sqm 1 19.50 13.30 30 3.20  Total 245.85  Flooring Ground Floor Total 245.85  Flooring Sqm 1 2.00 1.60 3.20  Gents Tollet Sqm 1 2.00 1.60 3.20  Gents Tollet Sqm 1 2.00 1.60 3.20  Gents Tollet Sqm 1 2.00 1.60 3.20  Flooring Sqm 1 1.50 1.90 2.28			Sqm				Total	1276.32
Floor	56	make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all mateirals, mortar, labour, etc , Complete as per specification.						
Floor								
Security Cabin			Sqm	1	14.00	3.70		51.8
Toilet Flooring Ded		Security Cabin	Sqm	1				3.2
Total   48.40   First Floor LVL   Floor   Sqm   1   14.00   3.70   51.8								5.5
First Floor LVL		Toilet Flooring Ded	Sqm				Total	
Floor		First Floor LVL					Total	40.40
Toilet Flooring Ded   Sqm   Total   46.48			Sqm	1	14.00	3.70		51.8
Second Floor LVL		·	Sqm					5.18
Second Floor LVL		Toilet Flooring Ded	Sqm				Total	
Floor		Second Floor I VI					Total	40.40
Staircase Area   Sqm   -1   4.50   3.00   -13.5     Toilet Flooring Ded   Sqm   Total   235.35     Terrace Floor LVL   Floor   Sqm   1   19.50   13.30   259.35     Staircase Area   Sqm   1   19.50   13.30   259.35     Staircase Area   Sqm   -1   4.50   3.00   -13.5     KSRB 14.14-5: Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1 3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. for Ceramic Tiles of size 30x30cms, 6mm thick ((KPWD 18-19,Sl.No.14.36.2,Pg.No.108)   Ground Floor   Toilet (2 Nos.)   Toilet (2 Nos.)   Toilet   Sqm   1   2.00   1.60   3.20   3.20   Gents Toilet   Sqm   1   2.00   1.60   3.20   Cents Toilet   Sqm   1   1.50   1.90   2.85   Cents Toilet   Flooring   Sqm   1   1.50   1.90   2.85   Cents Toilet   Flooring   Sqm   1   1.50   1.90   2.85   Cents Toilet   Flooring   Sqm   1   1.50   1.90   2.85   Cents Toilet   S			Sqm	1	19.50	13.30		259.35
Total 235.35			Sqm	-1	4.50	3.00		-13.5
Terrace Floor LVL		Toilet Flooring Ded	Sqm					
Floor   Sqm   1   19.50   13.30   259.35     Staircase Area   Sqm   -1   4.50   3.00   -13.5     KSRB 14.14-5: Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1 3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,Sl.No.14.36.2,Pg.No.108)    Ground Floor   Toilet (2 Nos.)							I otai	235.35
Floor   Sqm   1   19.50   13.30   259.35     Staircase Area   Sqm   -1   4.50   3.00   -13.5     KSRB 14.14-5: Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1 3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,Sl.No.14.36.2,Pg.No.108)    Ground Floor   Toilet (2 Nos.)		Terrace Floor LVL						
KSRB 14.14-5: Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 13 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,Sl.No.14.36.2,Pg.No.108)  Ground Floor Toilet (2 Nos.) Handicap Toilet Sqm 1 2.00 1.60 3.20 Gents Toilet Flooring Sqm 1 1.50 1.90 2.85 Ladies Toilet Flooring Sqm 1 1.50 1.90 2.85		Floor	Sqm	1	19.50	13.30		259.35
KSRB 14.14-5: Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1 3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,Sl.No.14.36.2,Pg.No.108)  Ground Floor  Toilet (2 Nos.)  Handicap Toilet  Sqm 1 2.00 1.60 3.20 1.60 3.20 1.60 5.20 1.60 5.20 1.60 1.20 1.60 1.20 1.60 1.20 1.60 1.20 1.60 1.20 1.60 1.20 1.60 1.20 1.60 1.20 1.20 1.60 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.2		Staircase Area	Sqm	-1	4.50	3.00		-13.5
make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1 3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,Sl.No.14.36.2,Pg.No.108)  Ground Floor Toilet (2 Nos.)  Handicap Toilet Sqm 1 2.00 1.60 3.20 Toilet Sqm 1 2.00 1.60 3.20 Gents Toilet Flooring Sqm 1 1.50 1.90 2.85 Ladies Toilet Flooring Sqm 1 1.50 1.90 2.85							Total	245.85
Toilet (2 Nos.)         Sqm         1         2.00         1.60         3.20           Handicap Toilet         Sqm         1         2.00         1.60         3.20           Toilet         Sqm         1         2.00         1.60         3.20           Gents Toilet         Sqm         1         1.50         1.90         2.85           Ladies Toilet         Sqm         1         1.50         1.90         2.85           Flooring         Sqm         1         1.50         1.90         2.85	57	make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1 3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.  for Ceramic Tiles of size 30x30cms, 6mm thick						
Handicap Toilet   Sqm   1   2.00   1.60   3.20     Toilet   Sqm   1   2.00   1.60   3.20     Gents Toilet   Sqm   1   2.00   1.60   3.20     Gents Toilet   Sqm   1   1.50   1.90   2.85     Ladies Toilet   Sqm   1   1.50   1.90   2.85     Flooring   Sqm   1   1.50   1.90   2.85     Contact								
Toilet         Sqm         1         2.00         1.60         3.20           Gents Toilet         Sqm         1         1.50         1.90         2.85           Ladies Toilet         Sqm         1         1.50         1.90         2.85           Flooring         Sqm         1         1.50         1.90         2.85								
Gents Toilet         Sqm         1         1.50         1.90         2.85           Ladies Toilet         Sqm         1         1.50         1.90         2.85           Flooring         Sqm         1         1.50         1.90         2.85								
Flooring         Sqm         1         1.50         1.90         2.85           Ladies Toilet         Sqm         1         1.50         1.90         2.85           Flooring         Sqm         1         1.50         1.90         2.85			Sqm	1	2.00	1.60		3.20
Ladies Toilet         Sqm         1         1.50         1.90         2.85			Sqm	1	1.50	1.90		2.85
		Ladies Toilet			-			
		Flooring	Sqm	1	1.50	1.90	Total	2.85 <b>12.10</b>

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	First Floor						
	Toilet (2 Nos.)	0		4.50	4.00		4.00
	Flooring	Sqm	2	1.50	1.60		4.80
	Gents Toilet						
	Flooring	Sqm	1	1.50	1.90		2.85
	Ladies Toilet			7.70 0			
	Flooring	Sqm	1	1.50	1.90		2.85
						Total	10.50
	Second Floor						
	Toilet (2 Nos.)	0	0	4.50	4.00		4.00
	Flooring	Sqm	2	1.50	1.60		4.80
	Gents Toilet						
	Flooring	Sqm	1	1.50	1.90		2.85
	Ladies Toilet			1.00	1.00		
	Flooring	Sqm	1	1.50	1.90		2.85
	· ·	Sqm				Total	10.50
58	KSRB 14.3 Providing and laying flooring and steps machine cut granite slabs 40mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed, including cost of materials, mortar, labour, curing complete as per specifications.  Specification No. KBS 14.26						
	Second Floor						
	Step	Sqm	22	1.50		0.30	9.9
	Riser	Sqm	22	1.50		0.18	5.78
	Landing	Sqm	1	3.00		1.50	4.5
		Sqm				Total	20.18
59	300mmx600mm for walls with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing, cleaning including providing and removing scaffolding wherever necessary etc., complete. The work includes cost of all materials, mortar, labour charges for all items of work, hire charges for equipment etc., complete as per specification. (KPWD 18-19,SI.No.14.64,Pg.No.112)						
	Ground Floor						
	Toilet (2 Nos.)						
	Long Wall	Sqm	4	2.00		3.60	28.8
	Short Wall	Sqm	4	1.60		3.60	
	Door Deduction	Sqm	-2	0.75		2.10	
	Ventilator Deduction	Sqm	-2	0.60		0.90	-1.08
	Gents Toilet						
	Long Wall	Sqm	2	1.50		3.60	10.8
	Short Wall	Sqm	2	1.90		3.60	
	Door Deduction	Sqm	-1	0.75		2.10	
	Ventilator Deduction	Sqm	-1	0.60		0.90	-0.54
	Ladies Toilet						
	Long Wall	Sqm	2	1.50		3.60	10.8
	Short Wall	Sqm	2	1.90 0.75		3.60 2.10	
<u> </u>	Door Deduction  Ventilator Deduction	Sqm Sqm	-1 -1	0.75		0.90	-1.58 -0.54
	Tomator Boddonori	3411	-1	0.00		0.90	-0.04
	Staff Room-Pantry	1					
	Long Wall	Sqm	2	1.50		3.60	
	Short Wall	Sqm	1	3.00		3.60	
	Window Ded.	Sqm	-1	0.60		0.90	
						Total	113.39
	First Floor	1					
-	First Floor Toilet (2 Nos.)						
L	1 Ulict (2 1405.)	l					

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	Long Wall	Sqm	4	2		3.6	28.8
	Short Wall	Sqm	4	1.6		3.6	23.04
-	Door Deduction	Sqm	-2	0.75		2.1	-3.15
	Ventilator Deduction	Sqm	-2	0.6		0.9	-1.08
	Gents Toilet						
	Long Wall	Sqm	2	1.5		3.6	10.8
	Short Wall	Sqm	2	1.9		3.6	13.68
	Door Deduction	Sqm	-1	0.75		2.1	-1.58
	Ventilator Deduction	Sqm	-1	0.6		0.9	-0.54
	Ladies Toilet						
	Long Wall	Sqm	2	1.5		3.6	10.8
	Short Wall	Sqm	2	1.9		3.6	13.68
	Door Deduction	Sqm	-1	0.75		2.1	-1.58
	Ventilator Deduction	Sqm	-1	0.6		0.9	-0.54
	Stoff Doom Donton						
	Staff Room-Pantry Long Wall	Sqm	2	1.5		3.6	10.8
	Short Wall	Sqm	1	3		3.6	10.8
-	Window Ded.	Sqm	-1	0.6		0.9	-0.54
	11.11.00 DOG.	- Jq:11	-1	0.0		Total	113.39
						70141	. 10.09
	Second Floor						
	Toilet (2 Nos.)						
	Long Wall	Sqm	4	2		3.6	28.8
	Short Wall	Sqm	4	1.6		3.6	23.04
	Door Deduction	Sqm	-2	0.75		2.1	-3.15
	Ventilator Deduction	Sqm	-2	0.6		0.9	-1.08
	Gents Toilet						
	Long Wall	Sqm	2	1.5		3.6	10.8
	Short Wall	Sqm	2	1.9		3.6	13.68
	Door Deduction	Sqm	-1	0.75		2.1	-1.58
	Ventilator Deduction	Sqm	-1	0.6		0.9	-0.54
	Ladies Toilet Long Wall	Sam	2	1.5		3.6	10.8
	Short Wall	Sqm Sqm	2	1.9		3.6	13.68
	Door Deduction	Sqm	-1	0.75		2.1	-1.58
	Ventilator Deduction	Sqm	-1	0.75		0.9	-0.54
	Volumetor Boddottori	Oqiii		0.0		0.0	0.01
	Staff Room-Pantry						
	Long Wall	Sqm	2	1.5		3.6	10.8
	Short Wall	Sqm	1	3		3.6	10.8
	Window Ded.	Sqm	-1	0.6		0.9	-0.54
		Sqm				Total	113.39
60	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,scaffoldingetc. and complete.						
	Front Wall	Sqm	1	14		7	98
	RCC Jali Deduction	Sqm	-2	4.7		1.6	-15.04
	Window Deduction	Sqm	-3	1.4		1.2	-5.04
	Door Deduction	Sqm	-2	2.1		1.2	-5.04
		Sqm				Total	72.88
61	Providing and fixing of wall cladding using 20 mm thick gang saw water cut granite in CM 1:3 proportion cut to required shape patron with paper joint finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in JOints including cost of all materials, mortar, labour, curing etc., complete as per specification.  do- with grey granite 20mm thick gang saw with minimum width 1200 mm						
	Ground Floor	Sqm	1	3.5		3	10.5
	Door Deduction	Sqm	-1	1.2		2.1	-2.52
		Sqm					7.98

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	First Floor	Sqm	1	3.5		3	10.5
	Door Deduction	Sqm	-1	1.2		2.1	-2.52
	Door Deduction	Sqm		1.2		Total	7.98
	Second Floor	Sqm	1	3.5		3	10.5
	Door Deduction	Sqm	-1	1.2		2.1	-2.52
		Sqm				Total	7.98
		0		0.5			40.5
	Third Floor Door Deduction	Sqm Sqm	1 -1	3.5 1.2		3 2.1	10.5 -2.52
	Door Deduction	Sqm	-1	1.2		Total	7.98
		Oqiii				Total	7.50
62	Providing and laying platform using prepolished, water cut I gang saw 40mm thick telephonic Black Granite. laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in JOints including cost of all materials, mortar, labour, curing etc., complete as per specification. (KPWD 18-19,SI.No.14.52,Pg.No.110)						
	Ground Floor-Pantry	Sqm	1	1.9	0.75		1.43
	First Floor-Pantry	Sqm	1	3.31	0.75		2.48
	Second Floor-Pantry	Sqm	1	3.31	0.75		2.48
	·	Sqm					6.39
	KSRB 15-15.1 • Providing and applying painting in						
63	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.do- with primer (KPWD 18-19,SI.No.15.51.2,Pg No.119)						
	1.1.181 / 6/	0					007.07
	Internal Plaster Qty	Sqm					667.67 133.53
	Add 20% Extra Qty.	Sqm				Total	801.20
						Total	001.20
64	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications.  (KPWD 18-19,SI.No.15.103,Pg No.127)						
	Ground Floor						
	Long Wall	Sqm	2	19.50		4.00	156.00
	Short Wall	Sqm	2	13.20		4.00	105.60
	First Floor Long Wall	Sqm	2	19.50		4.00	156.00
	Short Wall	Sqm	2	13.20		4.00	105.60
	Second Floor	24.11		.0.20		1.00	
	Long Wall	Sqm	2	19.50		4.00	156.00
	Short Wall	Sqm	2	13.20		4.00	105.60
	Terrace						
	Long Wall(External and Internal Surface)	Sqm	4	19.50		1.20	93.60
	Short Wall(External and Internal Surface)	Sqm	4	13.20		1.20	63.36
	Security cabin Long Wall	Sqm	0	1.00		4.00	1F CO
<b>-</b>	Short Wall	Sqm	2	1.96 2.46		4.00	15.68 19.68
	Compound Wall	Sqm	2	150.00		3.20	960.00
	Pergola Column	Sqm	15	1.60		8.00	192.00
	Pergola Beams	Sqm					

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
	B1	Sqm	1			1.36	17.35
	B2A	Sqm	1			1.80	19.08
	B3	Sqm	1	2.00		1.36	2.72
	B4-Long B4-Short	Sqm Sqm	1	3.20 1.00		1.36 1.36	4.35 1.36
	B5	Sqm	1			1.36	4.42
	B6	Sqm	1			1.36	4.42
	B7	Sqm	1			1.20	3.90
	B8	Sqm	3			1.50	57.87
	B9	Sqm	5			1.50	78.75
	B10	Sqm	7	10.50		1.36	99.96
		Sqm				Total	2423.31
65	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 grouting a slurry coat of neat cement using 2.75 kglsqm of cement admixed with proprietary water proofing compound conforming to 18:2645 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 18:2645 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 lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick joint less cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing						
	Second Floor Slab	Sqm	1		13.2		257.40
	Security Cabin Roof Slab	Sqm	1	1.5	2		3.00
		Sqm				Total	260.40
66	Waterproofing of RCC Terrace I podium slab I toilet I utilities I water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids, cracks I construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 10Ogm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates@ 040 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 silanollinear copolymer@ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic I styrene I butadiene & cement in the ratio of 1:0.1, @ 0.50kglsqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification (KPWD 18-19,SI.No.10.5.1,Pg.No.69)						
	Toilet Toilet	Sqm Sqm	6		1.60 1.90		19.20 17.10
		Sqm	J	1.00	1.00	Total	36.30
67	KSRB 9.4-1 : Providing wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM complete as per specifications.  Specification No. KBS 9.33KSRB 9.4-3 : -do - Mathi I Nandi wood frames (KPWD 18-19,SI.No.9.12,Pg.No.53)						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Single Leaf Door-1.2m Wide	Cum	7	5.40	0.075	0.063	0.18
	Double Leaf Door-1.8m Wide	Cum	3	5.70	0.075	0.063	0.08
		Cum				Total	0.26
	VCDD 0.5 - Draviding and fixing in position fully populled						
	KSRB 9.5 : Providing and fixing in position fully panelled wood shutters for doors, with styles and rails of 40mm.						
	thick with bottom and lock rails 180mm wide top rail and						
	styles 100mm wide as per drawing and panels of 25mm						
	thick including cost of materials, labour, HOM complete						
68	as per specifications. (excluding cost of fixtures)						
	Specification No. KBS 9.34KSRB 9-6.3 :do- MathiiNandi						
	wood styles and rails of 35mm thick						
	(KPWD 18-19,SI.No.9.19,Pg.No.53)						
	Ground Floor Single Leaf Door-1.2m Wide	Cam	2	1.2		2.1	5.04
	Double Leaf Door-1.8m Wide	Sqm Sqm	1	1.8		2.1	3.78
	Double Leaf Door-1.om Wide	Sqm		1.0		Total	8.82
	First Floor	- Oq				Total	0.02
	Single Leaf Door-1.2m Wide	Sqm	2	1.2		2.1	5.04
	Double Leaf Door-1.8m Wide	Sqm	1	1.8		2.1	3.78
		Sqm				Total	8.82
	Second Floor						
	Single Leaf Door-1.2m Wide	Sqm	1	1.2		2.1	2.52
	Double Leaf Door-1.8m Wide	Sqm	1	1.8		2.1	3.78 <b>6.30</b>
		Sqm				Total	6.30
	Terrace Floor						
	Single Leaf Door-1.2m Wide	Sqm	2	1.2		2.1	5.04
		Sqm				Total	5.04
	SOLID PANEL PRELAM PVC DOOR SHUTTER						
	Providing & fixing 30mm thick factory made rigid foam						
	Prelam Panelled Door Shutters made from M.S. tube of						
	19x19mm, 19 gauge for styles and 15x15mm for top &						
	bottom rails, covered with heat moulded Prelaminated						
	PVC C Channel of 5mm thick sheet & 30x50mm wide to						
	form styles & 5mm thick & 75mm wide Prelaminated PVC						
	Sheets for top rail, lock rail & bottom rail on either side &						
-00	5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet						
69	Prelaminated on either side fitted in the M.S.						
	frame, Sealed to the styles & rails with PVC Designer						
	beading on either side & joined together with solvent						
	cement adhesive etc., Complete as per manufacturers						
	specification & direction of Engineer-in-charge fixed to						
	frames with 3 nos of 75mm. Aluminium hinges.do- with						
	both side prelam						
	(KPWD 18-19,SI.No.9.85,Pg No.60 & 61)						
	Ground Floor						
	Toilet Door	Sqm	2	0.9		2.1	3.78
	First Floor						50
	Toilet Door	Sqm	2	0.9		2.1	3.78
	Second Floor	C ====	4	0.0		0.4	7.50
	Toilet Door	Sqm Sqm	4	0.9		2.1 Total	7.56 <b>15.12</b>
		Jqiii				i Otal	13.12

Sr. No.	Description	Unit	No's	L	В	н	Qty.
70	Providing and fixing pre fabricated non-monolithic R.C.C. Door Frames factory manufactured in separate parts and assembled at bolt nuts system with mechanical table vibrating as per IS 6523-1983 with using M25 concrete as per IS 456 with a cross section of 60 mm x 100 mm reinforced with 1.70 kg of TMT steel reinforced with 3 Nos. of 6 mm dia Main TMT bars and 6 mm Dia TMT stirrups welded at 40 em c/c in triangle shape per meter length of door frames, including cost of steel and fabrication charges having 3/4 No. Stainless Steel hinges plate attachment made of 165 mm x 25 mm x 2.5 mm Stainless Steel Flat welded with required iron rods and flats with drilling for fixing flat CSK Head Machine screws and nut made out of 304 grade stainless steel screws, nut and MS square nut of size 8 x 8 square and length 10 mm and making necessary provision in concrete for fixing aldrops, tower bolts and hold fasts etc., complete including two coats of oil based enamel primer providing without cill for shutter thickness upto 30 mm, 21 days tank immersed curing including cost of flabour, materials, HOM						
	Ground Floor						
	Toilet Door	Rmt	2	4.95			9.90
	First Floor Toilet Door	Rmt	2	4.95			9.90
	Second Floor	TXIIIC		4.00			3.30
	Toilet Door	Rmt	4	4.95			19.80
		Rmt					39.60
71	Providing and fixing Single shutter glass door of 12mm thick plain toughened glass. The door is fixed by using any approved make hardware fitting like patch fitting, pivot, floor machine, locking arrangements and suitable SS door rails with floral glass etching for 1/3 portion of door area etc complete. The rate includes cost of all materials, labour, hire of tools & machineries, and as per specification.						
	Ground Floor	Sqm	4	1.2		2.1	10.08
	Second Floor	Sqm	4	1.2		2.1	10.08
		Sqm				Total	20.16
72.00	Providing and fixing of Louvered ventilator made out of multi chambered UPVC (Matching to RAL-9016) sections and with minimum TiO2 (Titanium Dioxide) at 6PHR with TPV (Thermo plastic Vulcanized) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver Clip in Aluminium (Powder Coated in white) will be used on the frame along with plastic parts of fixing the 4mm pin head glass. Wall thickness of frame shall be 2mm. Maximum possible size - 1000mm x 1000mm (KPWD 18-19, SI.No.38.44.2, Pg.No.308)						
	Ground Floor	C====		^ 75			4.05
	Toilets-Ventilators First Floor	Sqm	2	0.75		0.9	1.35
	Toilets-Ventilators	Sqm	2	0.75	<u> </u>	0.9	1.35
	Second Floor						
	Toilets-Ventilators +Pantry +Store	Sqm	6	0.75		0.9 Total	4.05
						lotal	6.75

Sr. No.	Description	Unit	No's	L	В	н	Qty.
73	Providing and fixing 304- grade stainless steel hand rails of 14-gauge pipes for Ramps staircase made out of stainless steel hallow pipes, using 50mm dia for verticals @1.60 mtr c/c fixed to the ramps or steps by drilling with bolts and 100mm dia MS base plates 10mm gauge for fixing of Vertical pipes 4 - Nos anchor bolts & 40mm dia pipes fixed horizontally for 2-rows top, one pipes fixed with vertical pipes another one fixed with elbows and 25mm dia pipes are fixed horizontally for 2-rows below top measure@ equal intervals including cutting, welding, bending wherever necessary with suitable caps @ tops, bottoms & corners finishing with mat I shining etc., complete including cost and conveyance of all materials, labour for all items of work, HOM with all lead and lift, loading and unloading, transportation charges and all other incidental charges etc., complete as per specification and directions of the Engineer-in-charge of the work.  Ramps or Staircase for physically challenged.  (KPWD 18-19,SI.No.7.39,Pg.No.45)						
	Staire Case	Sqm	4	4		1.2	19.20
		Sqm				Total	19.20
74	Providing and fixing M.S. Hand railing for Balcony/Staircase etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing.						
	Ground Floor	Sqm	1	22.00		1.20	
	Ground Floor	Sqm	1	10.00		1.20	12.00 <b>38.00</b>
75.00	Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)		Column	No. Of Anchor Bolts			
	Insert Plate	No	27	4			108.00
	Foundation Bolts	No	6	30		Total	180.00 <b>288.00</b>
	Wt. Of one anchor bolt=4kg	Kg					1152.00
76.00	KSRB 8.7-5: Providing and fixing in position 12mm thick plaster of paris (Gypsum anhydrous) for ceiling reinforced with hessian cloth flat surface with ceiling tiles up to a height of 5 m above floor level over aluminium strips 25mm x 6mm and rendered smooth with plaster of paris including cost of materials, labour, curing complete as per specifications.  KPWD 18-19,SI.No.8.24						
	Ground Floor	Sqm	1	19.50	13.50		263.00
	Second Floor Staire Case Ceiling	Sqm Sqm	-3	19.50 4.50	13.50 3.00		263.00 -41.00
	otano dase dennig	Sqiii	-3	4.50	3.00	Total	485.00

windows and ventil sliding shutters usin 92x31.75mm botto 1.07kg/m; sides an 0.933 kg/m.shutter bottom section of s 1.25mm. weight 0.4 40mmx18mm. wall shutter interlock se 1.1 mm. thick, weig on nylon rollers with aluminium handles 5.5mm. thick plain is beading all aluminium required length, join tenonned and river stiffened with end of to the walls, lintels, Ground Floor Window Security Cabin  Second Floor Window (2m Wide) Window (1.5m Wide) Window (1m Wide)  Providing, fabricat Aluminium partition 3.18mm aluminium anodized sections and double groove and bottom member and corner grinded be stiffened with conscrews rawl plug at masonry on sides. mosaic floor at bottom panel of material providing and fixing (Ecoboard - exterial bottom panel of material partition Counter Data Entry Counter At Entrance Second Floor Server Room+Mee Work Station	ting, assembling and fixing in position	Sqm Sqm Sqm Sqm Sqm	3 1 5 7 2	1.50 1.20 2.00 1.50	1.20 1.20	Total	5.40 1.44 <b>6.84</b>
Window Security Cabin  Second Floor Window (2m Wide) Window (1.5m Wide) Window (1m Wide)  Providing, fabricat Aluminium partition 3.18mm aluminium anodized sections and double groove and bottom membe and corner grinded be stiffened with co screws rawl plug ar masonry on sides. mosaic floor at bo making good with Providing and fixing (Ecoboard - exteric bottom panel of ma Ground Floor Cabin For Enquiry Regitration Counte Data Entry Counter At Entrance Second Floor Server Room+Mee Work Station	ting, assembling and fixing in position	Sqm Sqm Sqm Sqm	5 7	2.00	1.20	Total	1.44
Second Floor Window (2m Wide) Window (1.5m Wide) Window (1.5m Wide) Window (1m Wide)  Providing, fabricat Aluminium partition 3.18mm aluminium anodized sections and double groove and bottom membe and corner grinded be stiffened with co screws rawl plug ar masonry on sides. mosaic floor at bo making good with Providing and fixing (Ecoboard - exteric bottom panel of ma Ground Floor Cabin For Enquiry Regitration Counte Data Entry Counter At Entrance Second Floor Server Room+Mee Work Station	ting, assembling and fixing in position	Sqm Sqm Sqm Sqm	5 7	2.00	1.20	Total	1.44
Second Floor Window (2m Wide) Window (1.5m Wide) Window (1m Wide)  Providing, fabricat Aluminium partition 3.18mm aluminium anodized sections and double groove and bottom membe and corner grinded be stiffened with co screws rawl plug ar masonry on sides. mosaic floor at bo making good with Providing and fixing (Ecoboard - exteric bottom panel of ma Ground Floor Cabin For Enquiry Regitration Counte Data Entry Counter At Entrance Second Floor Server Room+Mee Work Station	ting, assembling and fixing in position	Sqm Sqm Sqm	5 7	2.00	1.20	Total	
Window (2m Wide) Window (1.5m Wide) Window (1.5m Wide) Window (1m Wide)  Providing, fabricat Aluminium partition 3.18mm aluminium anodized sections and double groove and bottom member and corner grinded be stiffened with conscrews rawl plug an masonry on sides. mosaic floor at bottom panel of material providing and fixing (Ecoboard - exterial bottom panel of material points of the conscrept of the country of	ting, assembling and fixing in position	Sqm Sqm	7			10141	n x4
Window (1.5m Wide)  Providing, fabricat Aluminium partition 3.18mm aluminium anodized sections and double groove and bottom member and corner grinded be stiffened with conscrews rawl plug at masonry on sides. mosaic floor at bound making good with providing and fixing (Ecoboard - exteric bottom panel of material bottom	ting, assembling and fixing in position	Sqm Sqm	7				0.0 1
Providing , fabricat Aluminium partition 3.18mm aluminium anodized sections and double groove and bottom member and corner grinded be stiffened with conscrews rawl plug at masonry on sides. mosaic floor at bottom good with providing and fixing (Ecoboard - exteric bottom panel of material bottom	ting, assembling and fixing in position	Sqm		1.50			12.00
Providing, fabricat Aluminium partition 3.18mm aluminium anodized sections and double groove and bottom member and corner grinded be stiffened with conscrews rawl plug at masonry on sides. mosaic floor at bottom good with Providing and fixing (Ecoboard - exteric bottom panel of material bottom p	ting, assembling and fixing in position		2	4 00	1.20		12.60
Aluminium partition 3.18mm aluminium anodized sections and double groove and bottom membe and corner grinded be stiffened with co screws rawl plug an masonry on sides. mosaic floor at bo making good with Providing and fixing (Ecoboard - exterio bottom panel of ma Ground Floor Cabin For Enquiry Regitration Counte Data Entry Counter At Entrance Second Floor Server Room+Mee Work Station				1.00	1.20	Total	2.40 <b>27.00</b>
Aluminium partition 3.18mm aluminium anodized sections and double groove and bottom membe and corner grinded be stiffened with co screws rawl plug an masonry on sides. mosaic floor at bo making good with Providing and fixing (Ecoboard - exterio bottom panel of ma Ground Floor Cabin For Enquiry Regitration Counte Data Entry Counter At Entrance Second Floor Server Room+Mee Work Station						Total	27.00
Cabin For Enquiry Regitration Counte Data Entry Counter At Entrance Second Floor Server Room+Mee Work Station	n, mat finish or glossy finish, combination of plain, single groove members should not exceed 0.60mc/cer of required lengths, joints mitred sub dividing assembled frame should orner angles. Stripped and fixed with not teakwood guttas to RCC column or RCC lintels or beams at top and ottom; including cutting chistelling and a cement mortar to match the surface. g 12mm. thick prelaminated sheet or grade) of approved colour for aximum height 0.9m, and 5.50 mm thick						
Data Entry Counter At Entrance Second Floor Server Room+Mee Work Station		Sqm	4	4.75	3.2		60.80
At Entrance Second Floor Server Room+Mee Work Station		Sqm	1	9	3.2		28.80
Second Floor Server Room+Mee Work Station	r and Technical Counter	Sqm	1	16.26 3.25	3.2 3.2	<del>                                     </del>	52.03 10.40
Server Room+Mee Work Station		Sqm	1	3.23	3.2		10.40
	eting Room+Officer Cabin	Sqm	1	20.1	3.2		64.32
Providing and Fixin		Sqm	1	22.3	3.2		71.36
Providing and Fixin		Sqm				Total	287.71
	ng Handcarving Cornice and Bracket Wood as per the drawings and as tect.	Sqm	2	1.5		1	3.00
Bracket		Sqm	2	0.5		1	1.00
Diacket		Sqiii		0.5		Total	4.00
Providing precast of 2 coarse sand(zone nominal size), reinincluding centering fixing and finishing sand) etc. complete sills and soffits.  50 mm thick							

Sr. No.	Description	Unit	No's	L	В	н	Qty.
						Total	20.00
81.01	Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474,including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account). The weight of aluminium extruded section shall be taken						
	for purpose of payment.  Area of Glazing	Sqm	1	168	3.00	+	168.00
	7 Hou of Cluzing	Oqiii			ea	Kg/Sqm	100.00
	Assume Alumnium Consumption @5kg/Sqm	Kg	1	168	3.00	5	840.00
81.02	Double Glazing Grid:Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:  (a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness,	Sqm	1	16	10.5		168.00
	(b)Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimentional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/masonry/structural steel framework of building structure						
	(d)Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the						
	dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shan drawings and as directed by the Engineer-in-Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and 1. Performance Laboratory Test for Air Leakage Test (-50pa to - 300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
81.03	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthned clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.25.2)	Sqm	1	16	10.5		168.00
	For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.  (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35%, Light reflection internal 10 to 15%, light reflection external 10 to 20%, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree						
82.00	Providing and Fixing SS 304 Outdoor Dustbin(Pivoted Type and Mounted on SS Poles) of 55 liters capacity all complete to the satisfaction of the Engineer in charge. (NON SOR Item)	Nos.	5				5.00
83.00	Road Marking with hot applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete Surface:Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2 ltr of primer per sqm area,thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be level,uniform and free from streak and holes complete as						
	Dash Line	Sqm	0.6	230		0.15	20.70
	Edge Line	Sqm	2 15	230	Aroo/Dm	0.15	69.00
	Arrow Pedstrian Crossing	Sqm Sqm	4	0.76 12	Area/Rm 1.4		11.40 67.20
		Sqm				Total	168.30
84.00	Fabricating, providing and erecting in poiston of M S Ornamental security Grill Gate/Fencing on compound wall without hot dip using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for sugare bars of full height and at 8cms C / C for bottom rods providg ornamental C I Designers at the botom and C I arrows inthe midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drillling holes. the work includes providing two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist Double Leaf Security Gate	Sqm	1	3		1.76	5.28
	Single Leaf Security Gate	Sqm	1	1.5		1.76	2.64
					14 15		7.92
	Weight=50 Kg/Sqm			Area 7.92	Kg/Sqm 50		396.00
	Troight=00 Ng/04iii			1.32			390.00
1	Providing and Fixing SS Steel Chairs as specified by	Nos.	10				10.00

Description	Unit	No's	L	В	н	Qty.
P/F FRP Water gully cover with frame (25T) 600mmx500 mm on SWD (Rate analysis attached)						
SWD	Rm	230				230.00
Manhole Cover @ 5m C/C	Nos.	47				47.00
Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge	Nos.	20				20.00
Supplying and Fixing Passanger elevator of 8 Person Capacity of approved make and as per directed by Engineer in charge.	Nos.	1				1.00
Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5km Item No 17.4 KSRRB M100-4.1-Debris						
Debris Qty. add 20% Extra	Cum	1	180.02		T - ( - 1	180.02
					Total	180.02
Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km Item No 17.4 KSRRB M100-4.1-Earth						
Total Excavation	Cum	1		1698.68		1698.68
Refilling Qty.	Cum	-1	620	.26		-620.26
	Cum				Disposal Qty.	1078.42
	Rate analysis attached) Rate analysis attached)  Manhole Cover @ 5m C/C  Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge  Supplying and Fixing Passanger elevator of 8 Person Capacity of approved make and as per directed by Engineer in charge.  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5km tem No 17.4 KSRRB M100-4.1-Debris  Debris Qty. add 20% Extra  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km tem No 17.4 KSRRB M100-4.1-Earth  Fotal Excavation	Rate analysis attached)  Rate analysis attached)  Rm Manhole Cover @ 5m C/C  Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge  Supplying and Fixing Passanger elevator of 8 Person Capacity of approved make and as per directed by Engineer in charge.  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5km tem No 17.4 KSRRB M100-4.1-Debris  Debris Qty. add 20% Extra  Cum  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km tem No 17.4 KSRRB M100-4.1-Earth  Fotal Excavation  Refilling Qty.  Cum	Rate analysis attached)  Rate analysis attached)  Rm 230  Manhole Cover @ 5m C/C Nos. 47  Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge  Supplying and Fixing Passanger elevator of 8 Person Capacity of approved make and as per directed by Engineer in charge.  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5km tem No 17.4 KSRRB M100-4.1-Debris  Debris Qty. add 20% Extra  Cum 1  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km tem No 17.4 KSRRB M100-4.1-Earth  Fotal Excavation  Refilling Qty.  Cum 1	mm on SWD Rate analysis attached)  SWD  Manhole Cover @ 5m C/C  Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge  Supplying and Fixing Passanger elevator of 8 Person Capacity of approved make and as per directed by Engineer in charge.  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5km tem No 17.4 KSRRB M100-4.1-Debris  Debris Qty. add 20% Extra  Cum  1 180.02  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km tem No 17.4 KSRRB M100-4.1-Earth  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km tem No 17.4 KSRRB M100-4.1-Earth  Fotal Excavation  Refilling Qty.  Cum  -1 620	mm on SWD Rate analysis attached)  SWD Manhole Cover @ 5m C/C  Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge  Supplying and Fixing Passanger elevator of 8 Person Capacity of approved make and as per directed by Engineer in charge.  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5km tem No 17.4 KSRRB M100-4.1-Debris Debris Qty. add 20% Extra  Cum 1 180.02  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km tem No 17.4 KSRRB M100-4.1-Earth  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km tem No 17.4 KSRRB M100-4.1-Earth  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km tem No 17.4 KSRRB M100-4.1-Earth  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km tem No 17.4 KSRRB M100-4.1-Earth  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km tem No 17.4 KSRRB M100-4.1-Earth  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km tem No 17.4 KSRRB M100-4.1-Earth  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km tem No 17.4 KSRRB M100-4.1-Earth	Rate analysis attached)  Rate analysis attached)  Rm 230  Manhole Cover @ 5m C/C  Providing and fixing of S.S. Bollards(SS304) on footpath as specified and directed by Engineer -in-charge  Supplying and Fixing Passanger elevator of 8 Person Capacity of approved make and as per directed by Engineer in charge.  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5km tem No 17.4 KSRRB M100-4.1-Debris  Debris Qty. add 20% Extra  Cum 1 180.02  Total  Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km tem No 17.4 KSRRB M100-4.1-Earth  Fotal Excavation  Refilling Qty.  Cum 1 1698.68  Refilling Qty.

Assistant Engineer MSCL Mangaluru

Assistant Executive Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

General Manager Technical MSCL Mangaluru

	Pato Analysis - LIBOD			
	Rate Analysis - UPOR  KSRRR M200 11 1 Clearing and grubbing road land including	uproctic -	ronk vogototic	aroos bushes
1	KSRRB M200-11.1. Clearing and grubbing road land including shrubs, saplings and trees girth up to 300 mm, removalof sturunserviceable materials and stacking of serviceable material to be disposal of top organic soil not exceeding 150 mm in thickness directed by engineer in charge.  II. By Mechanical Means: A. In area of light jungle.	mps of to used or	rees cut earlier auctioned, include	and disposal of ding removal and
	MORTH Specification No. 201 (KPWD 18-19,SI.No.18.15)			
	Basic rate		18526	
	Add 10% For area weightage (Mangalore City)		1852.6	
		Rate	20378.60	На
	KODDO MOSS 40 4 Di William ( ) i ii a 4 4 4 William (			
2	KSRRB M200-12.1. Dismantling of existing structures like cul- structure comprising of masonry, cement concrete, wood work, wherever necessary, sorting the dismantled material, disposal o serviceable material with all lifts complete as per specifications ar i) Lime /Cement Concrete. I. By Manual Means: A. Lime Co- below. MORTH Specification No. 202 (KPWD 18-19,SI.No.18.17)	steel wor f unserv nd as dire	rk, including T&F riceable material ected by engineer	P and scaffolding and stacking the in charge.
	Basic rate		454	
	Add 10% For area weightage (Mangalore City)		45.4	
	3 3 \ 3 //	Rate	499.40	Cum
3	wherever necessary, sorting the dismantled material, disposal of serviceable material with all lifts complete as per specifications and Dismantling Stone Masonry.  MORTH Specification No. 202  KSRRB M200- 15.2. do- B. Rubble stone masonry in cement mortal (KPWD 18-19,SI.No.18.27)	d as direc		
	Basic rate		351	
	Add 10% For area weightage (Mangalore City)		35.1	
		Rate	386.10	Cum
4	KSRRB M200-32. Removal of Telephone /Electric poles including foundation concrete and lines under the supervision of concerned stacking the serviceable and unserviceable material separatelycom MORTH Specification No. 202 (KPWD 18-19,SI.No.18.57)	departm	ent, disposal wi	th all lifts and
	Basic rate		217	
	Add 10% For area weightage (Mangalore City)		21.7	
		Rate	238.70	Nos
5	KSRRB M200-14.1. Dismantling of existing structures like culve structure comprising of masonry, cement concrete, wood work, stewherever necessary, sorting the dismantled material, disposal of serviceable material with all lifts complete as per specifications a KSRRB M200-14.2. do- Dismantling brick/Tile work B. In cement m (KPWD 18-19,SI.No.18.23)	eel work, unservice and as dir	including T&P a eable material ar	nd scaffolding nd stacking the
	Basic rate		351	
	Add 10% For area weightage (Mangalore City)		35.1	
	, <u> </u>			
L		Rate	386.10	Cum

6	KSRRB M200-15.1. Dismantling of existing structures like culverts structure comprising of masonry, cement concrete, wood work, stewherever necessary, sorting the dismantled material, disposal of serviceable material with all lifts complete as per specifications.	el work, i	ncluding T&P an	d scaffolding
	iKSRRB M200-17.1. do- v) Steel work in all types of Sections up excluding Cutting of Rivet A. Including dismembering."	to a Heigh	nt of 5 m above	plinth level
	Basic rate		1893	
	Add 10% For area weightage (Mangalore City)		189.3	
		Rate	2082.30	
7	Dismantling doors, windows and clerestory windows (steel or wood holdfasts etc. complete and stacking as directed by Engineer in clemetres and below (CPWD 2018 15.12.1)	,	•	
	Basic rate		274.5	
		Rate	274.50	Nos.
8	Dismantling cement concrete flooring or plain cement concrete wo debris to distance 10km (within average thickness of 15 ems). inc complete as per specifications. (KPWD 18-19,SI.No.37.51)			
	Basic rate		86	
	Add 10% For area weightage (Mangalore City)		8.6	
		Rate	94.60	Sqm
	Dismantling roofing including ridges, hips, valleys and gutters etc., engineer in charge with all leads and lifts.	anu Staci	king the material	as directed by
9	15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)			
9	15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)		121.9	
9	15.28.1 G.S. Sheet.	Rate	121.9 <b>121.90</b>	
9	15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)	Rate	121.9 <b>121.90</b>	
9	15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)	central ve or which p	rge, including re ayment shall be	emoval of rubbish made separately
	15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)  Basic rate  Taking out existing CC interlocking paver blocks from footpath/eetc., disposal of unserviceable material to the dumping ground, for and stacking of serviceable material within 50 metre lead as attached)  Basic rate	central ve or which p	rge, including re ayment shall be ection of Engine	emoval of rubbish made separately er-in-Charge.(RA
	15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)  Basic rate  Taking out existing CC interlocking paver blocks from footpath/eetc., disposal of unserviceable material to the dumping ground, for and stacking of serviceable material within 50 metre lead as attached)	central ve or which p per dire	rge, including re ayment shall be ection of Engine 68.16	emoval of rubbish made separately eer-in-Charge.(RA
	15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)  Basic rate  Taking out existing CC interlocking paver blocks from footpath/eetc., disposal of unserviceable material to the dumping ground, for and stacking of serviceable material within 50 metre lead as attached)  Basic rate	central ve or which p	rge, including re ayment shall be ection of Engine	emoval of rubbish made separately eer-in-Charge.(RA
	15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)  Basic rate  Taking out existing CC interlocking paver blocks from footpath/etc., disposal of unserviceable material to the dumping ground, for and stacking of serviceable material within 50 metre lead as attached)  Basic rate  Add 10% For area weightage (Mangalore City)  Earth work excavation for foundation of structures upto 3 mtrs. It technical specification, including setting out, providing shoring, structure deleterious matter, dressing of sides and bottom, filling back and utilising I transporting the remaining earth upto 1.00km lead. it etc., complete. do-In all types of soils (KPWD 18-19,SI No.2.23.1,Pg.No.8)	central ve or which per direction Rate  by mecha rutting and the exca	rge, including reayment shall be ection of Engine 68.16 6.82 74.98 nical means as d bracing, remove the first statement of the first stat	emoval of rubbish made separately er-in-Charge.(RA  Sqm  per drawing and val of stumps and the extent required
10	15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)  Basic rate  Taking out existing CC interlocking paver blocks from footpath/etc., disposal of unserviceable material to the dumping ground, for and stacking of serviceable material within 50 metre lead as attached)  Basic rate  Add 10% For area weightage (Mangalore City)  Earth work excavation for foundation of structures upto 3 mtrs. It technical specification, including setting out, providing shoring, structure deleterious matter, dressing of sides and bottom, filling back and utilising I transporting the remaining earth upto 1.00km lead. it etc., complete. do-In all types of soils (KPWD 18-19,SI No.2.23.1,Pg.No.8)  Basic rate	central ve or which per direction Rate  by mecha rutting and the exca	rge, including reayment shall be ection of Engine 68.16 6.82 74.98 Inical means as distracting, remove the cost of labour, management of of lab	emoval of rubbish made separately er-in-Charge.(RA  Sqm  per drawing and val of stumps and the extent required
10	15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)  Basic rate  Taking out existing CC interlocking paver blocks from footpath/etc., disposal of unserviceable material to the dumping ground, for and stacking of serviceable material within 50 metre lead as attached)  Basic rate  Add 10% For area weightage (Mangalore City)  Earth work excavation for foundation of structures upto 3 mtrs. It technical specification, including setting out, providing shoring, structure deleterious matter, dressing of sides and bottom, filling back and utilising I transporting the remaining earth upto 1.00km lead. it etc., complete. do-In all types of soils (KPWD 18-19,SI No.2.23.1,Pg.No.8)	Rate  by mecha rutting and the exca	rge, including reayment shall be ction of Engine 68.16 6.82 74.98 nical means as dibracing, removated earth to the cost of labour, mass 52 5.2	emoval of rubbish made separately ter-in-Charge.(RA  Sqm  per drawing and val of stumps and the extent required aterials and HOM
10	15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)  Basic rate  Taking out existing CC interlocking paver blocks from footpath/etc., disposal of unserviceable material to the dumping ground, for and stacking of serviceable material within 50 metre lead as attached)  Basic rate  Add 10% For area weightage (Mangalore City)  Earth work excavation for foundation of structures upto 3 mtrs. It technical specification, including setting out, providing shoring, structure deleterious matter, dressing of sides and bottom, filling back and utilising I transporting the remaining earth upto 1.00km lead. it etc., complete. do-In all types of soils (KPWD 18-19,SI No.2.23.1,Pg.No.8)  Basic rate	central ve or which per direction Rate  by mecha rutting and the exca	rge, including reayment shall be ection of Engine 68.16 6.82 74.98 Inical means as distracting, remove the cost of labour, management of of lab	emoval of rubbish made separately ter-in-Charge.(RA  Sqm  per drawing and val of stumps and the extent required aterials and HOM
10	15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)  Basic rate  Taking out existing CC interlocking paver blocks from footpath/etc., disposal of unserviceable material to the dumping ground, for and stacking of serviceable material within 50 metre lead as attached)  Basic rate  Add 10% For area weightage (Mangalore City)  Earth work excavation for foundation of structures upto 3 mtrs. It technical specification, including setting out, providing shoring, structure deleterious matter, dressing of sides and bottom, filling back and utilising I transporting the remaining earth upto 1.00km lead. it etc., complete. do-In all types of soils (KPWD 18-19,SI No.2.23.1,Pg.No.8)  Basic rate	Rate  Party mecha rutting and the excal	rge, including reayment shall be ection of Engine 68.16 6.82 74.98 nical means as dibracing, remove the cost of labour, material means as dibracing, remove the cost of labour, material means as dibracing, remove the cost of labour, material means as dibracing, remove the cost of labour, material means as dibracing, remove the cost of labour, material means as dibracing, remove the cost of labour, material means as dibracing, remove the cost of labour, remove the cost of labou	sqm emoval of rubbish made separately ter-in-Charge.(RA  sqm per drawing and val of stumps and the extent required the aterials and HOM  cum per drawing and val of stumps and the extent required val of stumps and the extent required val of stumps and the extent required
10	15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)  Basic rate  Taking out existing CC interlocking paver blocks from footpath/etc., disposal of unserviceable material to the dumping ground, for and stacking of serviceable material within 50 metre lead as attached)  Basic rate  Add 10% For area weightage (Mangalore City)  Earth work excavation for foundation of structures upto 3 mtrs. It technical specification, including setting out, providing shoring, structure of the deleterious matter, dressing of sides and bottom, filling back and utilising I transporting the remaining earth upto 1.00km lead. it etc., complete. do-In all types of soils (KPWD 18-19,SI No.2.23.1,Pg.No.8)  Basic rate  Add 10% For area weightage (Mangalore City)  Earth work excavation for foundation of structures upto 3 mtrs. It technical specification, including setting out, providing shoring, structure of the deleterious matter, dressing of sides and bottom, filling back and utilising I transporting the remaining earth upto 1.00km lead. it etc., complete.do-Soft rock/ordinary rock (without blasting)	Rate  Party mecha rutting and the excal	rge, including reayment shall be ection of Engine 68.16 6.82 74.98 nical means as dibracing, remove the cost of labour, material means as dibracing, remove the cost of labour, material means as dibracing, remove the cost of labour, material means as dibracing, remove the cost of labour, material means as dibracing, remove the cost of labour, material means as dibracing, remove the cost of labour, material means as dibracing, remove the cost of labour, remove the cost of labou	sqm emoval of rubbish made separately ter-in-Charge.(RA sqm per drawing and val of stumps and the extent required taterials and HOM cum per drawing and val of stumps and the extent required the extent required val of stumps and the extent required the extent required the extent required
10	15.28.1 G.S. Sheet. (CPWD 2018 15.18.1)  Basic rate  Taking out existing CC interlocking paver blocks from footpath/etc., disposal of unserviceable material to the dumping ground, from the stacking of serviceable material within 50 metre lead as attached)  Basic rate  Add 10% For area weightage (Mangalore City)  Earth work excavation for foundation of structures upto 3 mtrs. It technical specification, including setting out, providing shoring, structure of the	Rate  Party mecha rutting and the excal	rge, including reayment shall be ection of Engine 68.16 6.82 74.98 Inical means as districted bracing, remove the cost of labour, manufactured earth to the cost of labour, remove the cost of labour, remove the cost of labour, manufactured earth to the cost of labour, manufactured earth e	sqm emoval of rubbish made separately ter-in-Charge.(RA  sqm per drawing and val of stumps and the extent required the aterials and HOM  cum per drawing and val of stumps and the extent required val of stumps and the extent required val of stumps and the extent required

Earthwork in excavation for foundation of structures by Mechanical means as per drawing specification including setting out construction of shoring, strutting, barricading, danger light, brac slumps and other deterious matter, dressing of sides and levelling the bottom of trench required, utilising the available excavated earth locally for the work etc. complete. (Depth upto 3n Hard Rock-Any rock Excavatation by using mechanical plants/machinary (KUWSDB 18-19,SI.No.vii.1c,Pg.No.7)  Basic rate  677  Add 10% For area weightage (Mangalore City)  67.7  KSRB 2.3 : Fillling available excavated earth (excluding rock) in sides of foundations upto plint exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with limit and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  201  Add 10% For area weightage (Mangalore City)  Providing Muram/Gravel Bedding for the pipeline trenches/ at Plith below grade slab, including consolidation by punners etc., complete with all lead and lift as directed including barricading, cetc., as directed by the Engineer-in-Charge etc., complete, for all type of soils excluding black rock reaches.  KUWSDB 18-19, Pg No.9, SI No.6.2  Basic rate  259  Add 10% For area weightage (Mangalore City)  Rate  259  Add 10% For area weightage (Mangalore City)  Rate  284.90 [City	cum  inth in layers not h lead upto 50 h. No. KBS 2.9  Cum  g watering and h, danger lighting ck cotton soil and
specification including setting out construction of shoring, strutting, barricading, danger light, bracklumps and other deterious matter, dressing of sides and levelling the bottom of trench required, utilising the available excavated earth locally for the work etc.complete. (Depth upto 3n Hard Rock-Any rock Excavation by using mechanical plants/machinary (KUWSDB 18-19,SI.No.vii.1c,Pg.No.7)  Basic rate 677 Add 10% For area weightage (Mangalore City) 67.7  KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plint exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with limit and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate 201 Add 10% For area weightage (Mangalore City) 20.1  Providing Muram/Gravel Bedding for the pipeline trenches/ at Plith below grade slab, including consolidation by punners etc., complete with all lead and lift as directed including barricading, cetc., as directed by the Engineer-in-Charge etc., complete, for all type of soils excluding black rock reaches. KUWSDB 18-19, Pg No.9,SI No.6.2  Basic rate 259 Add 10% For area weightage (Mangalore City) 25.9  KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and dow approved sand including hand packing, ramming, watering, including cost of all materials and lead and lift. complete as per specifications. specification. No. KBS (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate 2541 Add 10% For area weightage (Mangalore City) 25.41	cum  inth in layers not h lead upto 50 h. No. KBS 2.9  Cum  g watering and h, danger lighting ck cotton soil and
Add 10% For area weightage (Mangalore City)  Rate  744.70 Ci  KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plint exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lim. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  Providing Muram/Gravel Bedding for the pipeline trenches/ at Plith below grade slab,including consolidation by punners etc., complete with all lead and lift as directed including barricading, cetc., as directed by the Engineer-in-Charge etc., complete, for all type of soils excluding black rock reaches.  KUWSDB 18-19, Pg No.9,SI No.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  259  Add 10% For area weightage (Mangalore City)  Rate  284.90 Ci  KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and dow approved sand including hand packing, ramming, watering, including cost of all materials and lead and lift. complete as per specifications. specification. No. KBS (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  2541  Add 10% For area weightage (Mangalore City)  254.1	inth in layers not in lead upto 50 in. No. KBS 2.9  Cum  In g watering and in danger lighting ok cotton soil and
Add 10% For area weightage (Mangalore City)  Rate  744.70 Ci  KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plint exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lim. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  Providing Muram/Gravel Bedding for the pipeline trenches/ at Plith below grade slab,including consolidation by punners etc., complete with all lead and lift as directed including barricading, cetc., as directed by the Engineer-in-Charge etc., complete, for all type of soils excluding black rock reaches.  KUWSDB 18-19, Pg No.9,SI No.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  259  Add 10% For area weightage (Mangalore City)  Rate  284.90 Ci  KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and dow approved sand including hand packing, ramming, watering, including cost of all materials and lead and lift. complete as per specifications. specification. No. KBS (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  2541  Add 10% For area weightage (Mangalore City)  254.1	inth in layers not in lead upto 50 in. No. KBS 2.9  Cum  In g watering and in danger lighting ok cotton soil and
KSRB 2.3 : Filling available excavated earth ( excluding rock ) in sides of foundations upto plint exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lim. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  Providing Muram/Gravel Bedding for the pipeline trenches/ at Plith below grade slab,including consolidation by punners etc., complete with all lead and lift as directed including barricading, cetc., as directed by the Engineer-in-Charge etc., complete, for all type of soils excluding black rock reaches.  KUWSDB 18-19, Pg No.9,SI No.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  CSSP  Rate  Z59  Add 10% For area weightage (Mangalore City)  Rate  Z59  KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and dow approved sand including hand packing, ramming, watering, including cost of all materials and lead and lift. complete as per specifications. specification. No. KBS  (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  25.9  Add 10% For area weightage (Mangalore City)	inth in layers not in lead upto 50 in. No. KBS 2.9  Cum  In g watering and in danger lighting ok cotton soil and
exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lambda m. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  Providing Muram/Gravel Bedding for the pipeline trenches/ at Plith below grade slab,including consolidation by punners etc., complete with all lead and lift as directed including barricading, of etc., as directed by the Engineer-in-Charge etc., complete, for all type of soils excluding black rock reaches.  KUWSDB 18-19, Pg No.9,SI No.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  Example 18-19, Section 19-10-10-10-10-10-10-10-10-10-10-10-10-10-	Cum  ng watering and a danger lighting ck cotton soil and
exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lambda m. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  Providing Muram/Gravel Bedding for the pipeline trenches/ at Plith below grade slab,including consolidation by punners etc., complete with all lead and lift as directed including barricading, of etc., as directed by the Engineer-in-Charge etc., complete, for all type of soils excluding black prock reaches.  KUWSDB 18-19, Pg No.9,SI No.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down approved sand including hand packing, ramming, watering, including cost of all materials and lead and lift. complete as per specifications. specification. No. KBS  (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  2541  Add 10% For area weightage (Mangalore City)  25.9  CKPRD 18-19,SI.No.2.15,Pg.No.7)	Cum  ng watering and a danger lighting ck cotton soil and
Add 10% For area weightage (Mangalore City)  Providing Muram/Gravel Bedding for the pipeline trenches/ at Plith below grade slab,including consolidation by punners etc., complete with all lead and lift as directed including barricading, cetc., as directed by the Engineer-in-Charge etc., complete, for all type of soils excluding black rock reaches.  KUWSDB 18-19, Pg No.9,SI No.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  EXEMPTED A SET OF THE PROVIDE AND ADDRESS OF THE PROVIDED AND ADDRESS OF T	ng watering and I, danger lighting Ek cotton soil and
Providing Muram/Gravel Bedding for the pipeline trenches/ at Plith below grade slab,including consolidation by punners etc., complete with all lead and lift as directed including barricading, cetc., as directed by the Engineer-in-Charge etc., complete, for all type of soils excluding black rock reaches.  KUWSDB 18-19, Pg No.9,Sl No.6.2  Basic rate 259 Add 10% For area weightage (Mangalore City) 25.9  KSRB 2.8: Providing and Filling in foundation with granite / trap broken metal 100mm. and down approved sand including hand packing, ramming, watering, including cost of all materials and lead and lift. complete as per specifications. specification. No. KBS  (KPWD 18-19,Sl.No.2.15,Pg.No.7)  Basic rate 254.1  Add 10% For area weightage (Mangalore City) 254.1	ng watering and I, danger lighting Ek cotton soil and
Providing Muram/Gravel Bedding for the pipeline trenches/ at Plith below grade slab,including consolidation by punners etc., complete with all lead and lift as directed including barricading, consolidation by punners etc., complete with all lead and lift as directed including barricading, consolidation by punners etc., complete, for all type of soils excluding black frock reaches.  KUWSDB 18-19, Pg No.9,SI No.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8: Providing and Filling in foundation with granite / trap broken metal 100mm. and down approved sand including hand packing, ramming, watering, including cost of all materials and lead and lift. complete as per specifications. specification. No. KBS (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  254.1	ng watering and I, danger lighting Ek cotton soil and
consolidation by punners etc., complete with all lead and lift as directed including barricading, of etc., as directed by the Engineer-in-Charge etc., complete, for all type of soils excluding black rock reaches.  KUWSDB 18-19, Pg No.9,SI No.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  CSRB 2.8: Providing and Filling in foundation with granite / trap broken metal 100mm. and down approved sand including hand packing, ramming, watering, including cost of all materials and lead and lift. complete as per specifications. specification. No. KBS  (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  2541  Add 10% For area weightage (Mangalore City)  254.1	i, danger lighting ck cotton soil and
Add 10% For area weightage (Mangalore City)  Rate  25.9  KSRB 2.8: Providing and Filling in foundation with granite / trap broken metal 100mm. and down approved sand including hand packing, ramming, watering, including cost of all materials and lateral and lift. complete as per specifications. specification. No. KBS (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  25.9  Rate  284.90 City	Cum
KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down approved sand including hand packing, ramming, watering, including cost of all materials and lateral and lift. complete as per specifications. specification. No. KBS (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)	Cum
KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and dov approved sand including hand packing, ramming, watering, including cost of all materials and la lead and lift. complete as per specifications. specification. No. KBS (KPWD 18-19,Sl.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  254.1	
approved sand including hand packing, ramming, watering, including cost of all materials and la lead and lift. complete as per specifications. specification. No. KBS (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  254.1	Cum
Add 10% For area weightage (Mangalore City) 254.1	
5 5 \ 5 77	
Rate 2795.10 C	
	Cum
KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 but including cutting and loading in tippers,trimming bottom and side slopes,in accordance with required lines and grades and cross sections,and transporting disposal location up to a lead of 5.00Km as per specifications.  MORTH specification No.301(Including transporting charges, loading and unloading for lead 5k (Page No 143,SI No : 19.14)	equirements of mand complete
Basic rate 41	
Add 10% For area weightage (Mangalore City)  4.1	
Rate 45.10 C	cum
KSRRB M300-55. Construction of sub-grade transporting to site, spreading, grading to require compacted to meet requirement of Table No. 300-2 complete as per specifications, including watering charges & compaction by vibratory roller to 97% of modified proctors density) MORTH Specification No. 305 (KPWD 18-19,SI.No.19.62,Pg.No.147)	
Basic rate 513	<del></del>
Add 20km lead (17.4 KSRRB M100-4.1-Cost of haulage excluding loading and unloading MORTH-100/Chapter 1-case 1-Surface Road)=2.0Rs/ Tkm x 1.28 T x 20km	

		,		
	Sub Total		564.2	
	Add 10% For area weightage (Mangalore City)		56.42	
		Rate	620.62	Cum
19	KSRRB M400-6.2.Construction of granular sub base by providing granite/trap/basalit material, spreading in uniform layers with mo place methode by rotavator at OMC, and compacting with vibr density, complete as per specification. B.By Mix in Place Methode. Close graded granular sub base material as per 400-1 For Grading II material (Page No 155, SI No : 20.5.2)	tor on pr	epared surface,	mixing by mix in
	Basic Rate		2166	
	Add 10% For area weightage (Mangalore City)		216.6	
		Rate	2382.60	Cum
20	KSRRB M600-1.Construction of dry lean cement concrete mix M-25mm and down size graded granite/trap/basalt metal coarse ag 0.58cum Sub-base over prepared sub grade with (coarse and fine cement ration not to excee 15:1. Aggregate gradation after ble content to be determined during trail length construction, concret days,mixed in a batching plant,transported to site,laid with a pave 10 tonnes double drum vibratory roller,finishing and curing comple No.601 (SI No: 22.1.1 of KPWD 18-19)	gregate a aggregatending to e strengtl r with ele	at 0.86cum and for the confirming to lead to be as per Table in not to be less ctronic sensor,co	ine aggregate @ S:383) aggregate e 600-1, cement than 10Mpa at 7 ompacting with 8-
	Basic Rate		4048	
	Add 10% For area weightage (Mangalore City)		404.8	
	The service of the group (management conj)	Rate	4452.80	
	KSSRRR M600-2 Construction of unreinforced dowel jointed n	lain cem	ent concrete n	avement over a
21	KSSRRB M600-2.Construction of unreinforced,dowel jointed,p prepared sub base with 25mm and down size graded granite meta 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine a batching and mixing plant as per approved mix design,transported paver spread,compacted and finished in a continuos operation in construction and longitudinal joints,including groove cutting chaselent primer, joints sealant, debonding strip, dowel bars at 4.5m curing compound,finishing to lines and grades as per drawing specification No.602.do with M40 (420Kg per cum Cement,C.A,0.6 (Page No 176,SI No : 22.2.2)	al coarse aggregate of to site, cluding parges, join intervals	aggregate with seconforming to Islaid with a fixed rovision of contracts filler, separate, tie rod, admixture as per sprcif	superplastisizer at S:383) mixed in a form or slip form raction, expansio, ion memberane, ares as approved,
21	prepared sub base with 25mm and down size graded granite meta 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine a batching and mixing plant as per approved mix design,transported paver spread, compacted and finished in a continuos operation in construction and longitudinal joints, including groove cutting chaselent primer, joints sealant, debonding strip, dowel bars at 4.5mc curing compound, finishing to lines and grades as per drawing specification No.602.do with M40 (420Kg per cum Cement, C.A, 0.60).	al coarse aggregate of to site, cluding parges, join intervals	aggregate with seconforming to Islaid with a fixed rovision of contracts filler, separate, tie rod, admixture as per sprcif	superplastisizer at S:383) mixed in a form or slip form raction, expansio, ion memberane, ires as approved, ications MORTH
21	prepared sub base with 25mm and down size graded granite meta 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine a batching and mixing plant as per approved mix design,transported paver spread, compacted and finished in a continuos operation in construction and longitudinal joints, including groove cutting chasealent primer, joints sealant, debonding strip, dowel bars at 4.5mc curing compound, finishing to lines and grades as per drawing specification No.602.do with M40 (420Kg per cum Cement, C.A, 0.6 (Page No 176, SI No : 22.2.2)	al coarse aggregate of to site, cluding parges, join intervals	aggregate with seconforming to IS laid with a fixed rovision of contracts filler, separate, tie rod, admixture as per sprcif A.044Cum	superplastisizer at S:383) mixed in a form or slip form raction, expansio, ion memberane, ires as approved, ications MORTH
21	prepared sub base with 25mm and down size graded granite meta 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine a batching and mixing plant as per approved mix design,transported paver spread,compacted and finished in a continuos operation in construction and longitudinal joints,including groove cutting chaselent primer, joints sealant, debonding strip, dowel bars at 4.5mc curing compound,finishing to lines and grades as per drawing specification No.602.do with M40 (420Kg per cum Cement,C.A,0.6 (Page No 176,SI No : 22.2.2)	al coarse aggregate of to site, cluding parges, join intervals	aggregate with s conforming to Is laid with a fixed rovision of contr nts filler,separat , tie rod, admixtu te as per sprcif A.044Cum	superplastisizer at S:383) mixed in a form or slip form raction, expansio, ion memberane, ires as approved, ications MORTH
21	prepared sub base with 25mm and down size graded granite meta 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine a batching and mixing plant as per approved mix design,transported paver spread,compacted and finished in a continuos operation in construction and longitudinal joints,including groove cutting chaselent primer, joints sealant, debonding strip, dowel bars at 4.5mc curing compound,finishing to lines and grades as per drawing specification No.602.do with M40 (420Kg per cum Cement,C.A,0.6 (Page No 176,SI No : 22.2.2)	al coarse aggregate d to site, cluding parges, join intervals complet 67 cum F.	aggregate with seconforming to IS laid with a fixed rovision of contracts filler, separate, tie rod, admixture as per sprcif A.044Cum	superplastisizer at S:383) mixed in a form or slip form raction, expansio, ion memberane, ires as approved, ications MORTH
21	prepared sub base with 25mm and down size graded granite meta 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine a batching and mixing plant as per approved mix design,transported paver spread,compacted and finished in a continuos operation in construction and longitudinal joints,including groove cutting chaselent primer, joints sealant, debonding strip, dowel bars at 4.5mc curing compound,finishing to lines and grades as per drawing specification No.602.do with M40 (420Kg per cum Cement,C.A,0.6 (Page No 176,SI No : 22.2.2)	al coarse aggregate aggregate ad to site, cluding parges, join intervals a complete a co	aggregate with seconforming to IS laid with a fixed rovision of contracts filler, separate, tie rod, admixture as per sprcif A.044Cum  5765 576.5 6341.50 2:4 with top and CM 1:3 Plaster	cuperplastisizer at S:383) mixed in a form or slip form raction, expansio, ion memberane, ires as approved, ications MORTH  Cum  bottom width 114 ring and finishing
	prepared sub base with 25mm and down size graded granite meta 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine a batching and mixing plant as per approved mix design,transported paver spread, compacted and finished in a continuos operation in construction and longitudinal joints, including groove cutting chasealent primer, joints sealant, debonding strip, dowel bars at 4.5mc curing compound, finishing to lines and grades as per drawing specification No.602.do with M40 (420Kg per cum Cement, C.A, 0.6 (Page No 176, SI No : 22.2.2)  Basic Rate  Add 10% For area weightage (Mangalore City)  Providin and fixing pre cast solid concrete Kerb stones made out and 165mm respectively, 400mm high and 450mm in length finis cutting, including cost of all materials, labour, hire charges lift, transportation etc., complete	al coarse aggregate aggregate ad to site, cluding parges, join intervals completed completed aggregate.  Rate  Rate  of CC 1:2 shed with	aggregate with seconforming to IS laid with a fixed rovision of contracts filler, separate, tie rod, admixture as per sprcif A.044Cum  5765 576.5 6341.50 2:4 with top and CM 1:3 Plaster	cuperplastisizer at S:383) mixed in a form or slip form raction, expansio, ion memberane, ires as approved, ications MORTH  Cum  bottom width 114 ring and finishing
	prepared sub base with 25mm and down size graded granite meta 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine a batching and mixing plant as per approved mix design,transported paver spread,compacted and finished in a continuos operation in construction and longitudinal joints,including groove cutting chaselent primer, joints sealant, debonding strip, dowel bars at 4.5mc curing compound,finishing to lines and grades as per drawing specification No.602.do with M40 (420Kg per cum Cement,C.A,0.6 (Page No 176,SI No : 22.2.2)  Basic Rate  Add 10% For area weightage (Mangalore City)  Providin and fixing pre cast solid concrete Kerb stones made out and 165mm respectively,400mm high and 450mm in length finis cutting, including cost of all materials,labour,hire charges lift,transportation etc.,complete (Page No 25,SI No : 5.3)	al coarse aggregate aggregate ad to site, cluding parges, join intervals completed completed aggregate.  Rate  Rate  of CC 1:2 shed with	aggregate with seconforming to IS laid with a fixed rovision of contracts filler, separate, tie rod, admixture as per sprcif A.044Cum  5765 576.5 6341.50 2:4 with top and CM 1:3 Plaster inery, loading, unline conformation of the conformation of t	cuperplastisizer at S:383) mixed in a form or slip form raction, expansio, ion memberane, ires as approved, ications MORTH  Cum  bottom width 114 ring and finishing
	prepared sub base with 25mm and down size graded granite meta 3 Its confirming to IS9103-1999 reaffirmed 2008(Coarse and fine a batching and mixing plant as per approved mix design,transported paver spread,compacted and finished in a continuos operation in construction and longitudinal joints,including groove cutting ch sealent primer, joints sealant, debonding strip, dowel bars at 4.5mc curing compound,finishing to lines and grades as per drawing specification No.602.do with M40 (420Kg per cum Cement,C.A,0.6 (Page No 176,SI No : 22.2.2)  Basic Rate  Add 10% For area weightage (Mangalore City)  Providin and fixing pre cast solid concrete Kerb stones made out and 165mm respectively,400mm high and 450mm in length finis cutting, including cost of all materials,labour,hire charges lift,transportation etc.,complete (Page No 25,SI No : 5.3)  Basic rate	al coarse aggregate aggregate ad to site, cluding parges, join intervals completed completed aggregate.  Rate  Rate  of CC 1:2 shed with	aggregate with seconforming to IS laid with a fixed rovision of contracts filler, separate, tie rod, admixture as per sprcif A.044Cum  5765 576.5 6341.50 2:4 with top and CM 1:3 Plaster inery, loading, unl	cuperplastisizer at S:383) mixed in a form or slip form raction, expansio, ion memberane, ares as approved, ications MORTH  Cum  bottom width 114 ing and finishing oading,lead and
	prepared sub base with 25mm and down size graded granite meta 3 Its confirming to IS9103-1999 reaffirmed 2008(Coarse and fine a batching and mixing plant as per approved mix design,transported paver spread,compacted and finished in a continuos operation in construction and longitudinal joints,including groove cutting ch sealent primer, joints sealant, debonding strip, dowel bars at 4.5mc curing compound,finishing to lines and grades as per drawing specification No.602.do with M40 (420Kg per cum Cement,C.A,0.6 (Page No 176,SI No : 22.2.2)  Basic Rate  Add 10% For area weightage (Mangalore City)  Providin and fixing pre cast solid concrete Kerb stones made out and 165mm respectively,400mm high and 450mm in length finis cutting, including cost of all materials,labour,hire charges lift,transportation etc.,complete (Page No 25,SI No : 5.3)  Basic rate	Rate  Rate  Rate  Rate  Rate  hetic enar	aggregate with seconforming to IS laid with a fixed rovision of contracts filler, separate, tie rod, admixture as per sprcif A.044Cum  5765 576.5 6341.50 2:4 with top and CM 1:3 Plaster inery, loading, unlinery, loading, unlinery paint in apprent of the paint in apprent of the conformation of the conforma	superplastisizer at S:383) mixed in a form or slip form raction, expansio, ion memberane, ires as approved, ications MORTH  Cum  bottom width 114 ring and finishing oading,lead and Mos.  Nos.  oved shades on
22	prepared sub base with 25mm and down size graded granite meta 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine a batching and mixing plant as per approved mix design,transported paver spread,compacted and finished in a continuos operation in construction and longitudinal joints,including groove cutting chaselent primer, joints sealant, debonding strip, dowel bars at 4.5mc curing compound,finishing to lines and grades as per drawing specification No.602.do with M40 (420Kg per cum Cement,C.A,0.6 (Page No 176,SI No : 22.2.2)  Basic Rate  Add 10% For area weightage (Mangalore City)  Providin and fixing pre cast solid concrete Kerb stones made out and 165mm respectively,400mm high and 450mm in length finis cutting, including cost of all materials,labour,hire charges lift,transportation etc.,complete (Page No 25,SI No : 5.3)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRRB 800-1. Painting two coats after filling the surface with syntinew plastered concrete surfaces, with materials, labour complete a (SI No : 24.1 of KPWD 18-19)	Rate  Rate  Rate  Rate  Rate  hetic enar	aggregate with seconforming to IS laid with a fixed rovision of contracts filler, separate, tie rod, admixture as per sprcif A.044Cum  5765 576.5 6341.50 2:4 with top and CM 1:3 Plaster inery, loading, unlainery, unlai	superplastisizer at S:383) mixed in a form or slip form raction, expansio, ion memberane, ires as approved, ications MORTH  Cum  bottom width 114 ring and finishing oading,lead and Mos.  Nos.  oved shades on
22	prepared sub base with 25mm and down size graded granite meta 3 lts confirming to IS9103-1999 reaffirmed 2008(Coarse and fine a batching and mixing plant as per approved mix design,transported paver spread,compacted and finished in a continuos operation in construction and longitudinal joints,including groove cutting chaselent primer, joints sealant, debonding strip, dowel bars at 4.5mm curing compound,finishing to lines and grades as per drawing specification No.602.do with M40 (420Kg per cum Cement,C.A,0.6 (Page No 176,SI No : 22.2.2)  Basic Rate  Add 10% For area weightage (Mangalore City)  Providin and fixing pre cast solid concrete Kerb stones made out and 165mm respectively,400mm high and 450mm in length finis cutting, including cost of all materials,labour,hire charges lift,transportation etc.,complete (Page No 25,SI No : 5.3)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRRB 800-1. Painting two coats after filling the surface with syntinew plastered concrete surfaces, with materials, labour complete and strength finish surface with syntinew plastered concrete surfaces, with materials, labour complete and strength finish surface with syntinew plastered concrete surfaces, with materials, labour complete and strength finish surface with syntinew plastered concrete surfaces, with materials, labour complete and surface with syntinew plastered concrete surfaces, with materials, labour complete and surface with syntinew plastered concrete surfaces, with materials, labour complete and surface with syntinew plastered concrete surfaces, with materials, labour complete and surface with syntinew plastered concrete surfaces, with materials, labour complete and surface with syntine surface with syntine plastered concrete surfaces, with materials, labour complete and surface with syntine surface wi	Rate  Rate  Rate  Rate  Rate  hetic enar	aggregate with seconforming to IS laid with a fixed rovision of contracts filler, separate, tie rod, admixture as per sprcif A.044Cum  5765 576.5 6341.50 2:4 with top and CM 1:3 Plaster inery, loading, unlinery, loading, unlinery paint in apprent of the paint in apprent of the conformation of the conforma	cuperplastisizer at S:383) mixed in a form or slip form raction, expansio, ion memberane, ares as approved, iications MORTH  Cum  bottom width 114 ing and finishing oading,lead and most and most and most and most are consistent as a percent and most and most are consistent as a percent and most are consistent as a percent and most are consistent as a percent as a per

		Rate	88	Sqm
	VODDD MOSS OF A LANGE			
24	KSRRB M800-29.3.Cable Duct Across the road KSRRB M800-2 cement concrete pipe duct, 300 mm dia, across the road (new corcuts and toe of slope to toe of slope in fills, constructing head wal granular material over top and sides of RCC pipe as per IRC:98 granular material free of rock pieces, outer to outer distance of minimum450 mm in case of double and triple row ducts, joints to be above higher than ground level to prevent entry of water and d drawings complete as per specifications. Case-III: Triple row for the (PWD SR 2018-19,SI.No.24.36)	nstruction Is at both 3-1997, b f pipe at be made irt, all as	), extending from ends, providing pedded on a 0.3 least half dia of leak proof, inve per IRC: 98 - 19	n drain to drain in a minimum fill of m thick layer of if pipe subject to ert level of duct to
	Basic Rate		5022	
	Add 10% For area weightage (Mangalore City)		502.2	
		Rate	5524.20	Rm
25	KSRRB M400-6.1. Construction of granular sub-base by providing granite / trap / basalt material, mixing in a mechaical mix plant at O site, spreading in uniform layers with motor grader on prepared sur to achieve the desired density, complete as per specifications. A. F sub-base material as per 400-1 For Grading- II Material (RA Attach	MC, carri face and Plant Mix I	iage of mixed ma compacting with	aterial to work  Plate compactor
	Basic rate		2400	
	Add 10% For area weightage (Mangalore City)		240	
		Rate	2640.00	Cum
26	0.53cum, machine mixed, concrete laid in layers not exceeding 15 plinth and cills, including cost of all materials, labour, HOM curing of Specification No. KBS 4.1, 4.2 (KPWD 18-19,SI No.4.6.2,Pg.No.13)		as per specificat	ions.
	Basic rate		5900	
	Add 10% For area weightage (Mangalore City)	Rate	590 <b>6490.00</b>	
		rate	0430.00	Juli
27	KSRB-3.2: Providing and injecting chemical emulsion for Pre-cons- continuous chemical barrier under and around the column pits, wal surface of the plinth filling, junction of wall and floor, along the exter- joints, over the top surface of consolidated earth on which apron- conduits, with chloropyriphos emulsifiable concentrates of 20% co- cost of chemical, diluting in water to one percent concentration, late (Plinth area of the building at ground floor only shall be measured) (KPWD 18-19,S.I. No.3.2)	ls, trenchernal perion is to be la oncentration our, HOI	ies, basement e meter of building aid, surrounding ion at 3.19 Litre/ M complete as p	xcavation, top I, expansion of pipes and sqm., including er specifications.
	Basic rate		105	
	Add 10% For area weightage (Mangalore City)		10.5	
		Rate	115.50	Sqm
28	KSRB 4.2.1 Providing and laying in position reinforced cement 340kgs, with 20mm and down size graded granite metal coarse ag @ 0.47cum, with super plasticisers@ 3 liters confirming to IS 9103 concrete laid in layers not exceeding 15 ems thick, vibrated for a pedastals, retaining walls, return walls, walls (any thickness) include posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., i HOM curing, complete but excluding cost of reinforcement as per Specification No. KBS 4.1, 4.6 (KPWD 18-19,SI No.4.10,Pg.No.14)	gregates 3-1999 reall works ling attach	@0.70 cum and afirmed-2008 at in foundation for hed pilasters, colost of all materi	fine aggregtes machine mixed, r footings, lumns pillars,

		1		T
	Basic rate		6198	
	Add 10% For area weightage (Mangalore City)		619.8	
		Rate	6817.80	Cum
29	KSRB 4.2.7 Providing and laying in position reinforced @ 340kgs, with 20mm and down size graded granite met aggregtes @ 0.47cum, with super plasticisers @31ts cont machine mixed, concrete laid in layers not exceeding 15 floor level for roof slabs, staircase, lintels and beams retainir including attached pilasters, columns, lintles, pillars, posts, sparapets, coping, bed blocks, anchor blocks, plain window clabour, HOM curing, complete but excluding cost of reinford KBS 4.1, 4.6 (KPWD 18-19,SI.No.4.12,Pg No.14)  Plinth Beam  Basic rate  Add 10% For area weightage (Mangalore City)	tal coarse aggre- firming to IS9103 ems thick, vibrating walls, return was struts, buttresses, cills, fillets etc., inc	gates @0.70cu -1999 Reaffirm ted for all worl alls, walls (any string or lacing	m and fine led-2008, ks in ground thickness) courses, all materials, pecification No.
	First Floor Beam			
	Basic rate		6431	
	Lift Charges (1 x Rs.60 /Cum)		60	
	Add 10% For area weightage (Mangalore City)		649.1	
		Rate	7140.10	Cum
	Second Floor Beam			
	Basic rate		6431	
	Lift Charges (2 x Rs.60 /Cum)		120	
	Add 10% For area weightage (Mangalore City)		655.1	
	Trad 10701 of area weightage (Mangalore City)	Rate	7206.10	Cum
		Ttato	7200.10	Julii
	Terrace Floor Beam			
	Basic rate		6431	
	Lift Charges (3 x Rs.60 /Cum)		180	
	Add 10% For area weightage (Mangalore City)		661.1	
		Rate	7272 10	
		Kale	1212.10	Cum
30	Providing and laying M25 grade RCC jacketing work around existing column,applying epoxy as a bonding agent between shuttering work,curing, including cost of all material and labout be pais separetaly) (RA Attached)	the existing colu	mn including ch	nipping of and required
30	existing column, applying epoxy as a bonding agent between shuttering work, curing, including cost of all material and labout be pais separetaly)	the existing colu	mn including ch	nipping of and required ementsteel will
30	existing column,applying epoxy as a bonding agent between shuttering work,curing, including cost of all material and labous pais separetaly) (RA Attached)	the existing colu	mn including ch I new concrete .(Note:Reinford	nipping of and required ementsteel will
30	existing column,applying epoxy as a bonding agent between shuttering work,curing, including cost of all material and labout be pais separetaly) (RA Attached)  Basic rate	the existing colu	mn including ch I new concrete .(Note:Reinford 14234.59	nipping of and required rementsteel will
30	existing column,applying epoxy as a bonding agent between shuttering work,curing, including cost of all material and laborate pais separetaly) (RA Attached)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-6.1: Providing and removing centering, shuttering, work for foundations, footings, bases of columns for mass complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.28,Pg No.16)	the existing column old concrete and pur etc. Complete  Rate  strutting, propping	mn including challenge cost of all magnetics.	cum noval of formaterials, labour
	existing column,applying epoxy as a bonding agent between shuttering work,curing, including cost of all material and laborate pais separetaly) (RA Attached)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-6.1: Providing and removing centering, shuttering, work for foundations, footings, bases of columns for mass complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.28,Pg No.16)  Basic rate	the existing column old concrete and pur etc. Complete  Rate  strutting, propping	mn including challenge control of the management	nipping of and required rementsteel will cum  Cum  noval of form aterials, labour
	existing column,applying epoxy as a bonding agent between shuttering work,curing, including cost of all material and laborate pais separetaly) (RA Attached)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-6.1: Providing and removing centering, shuttering, work for foundations, footings, bases of columns for mass complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.28,Pg No.16)	the existing column old concrete and pur etc. Complete  Rate  strutting, propping	mn including challenge cost of all magnetics.	nipping of and required sementsteel will Cum  noval of form aterials, labour

Basic rate		Ground Floor			
Add 10% For area weightage (Mangalore City)   Rate   321.20   Sqm				292	
First Floor   Basic rate   292					
First Floor   Basic rate   292   Add 10% For area weightage (Mangalore City)   Rate   321.20   Sqm		The state of the s	Rate		
Basic rate			1 2000		
Add 10% For area weightage (Mangalore City)   Rate   321.20   Sqm		First Floor			
Add 10% For area weightage (Mangalore City)   Rate   321.20   Sqm				292	
Second Floor   Basic rate   292					
Second Floor   Basic rate   292   Add 10% For area weightage (Mangalore City)   Rate   321,20   Sqm		That 1070 For another signature (manigators only)	Rate		Sam
Basic rate			11010	021120	94
Basic rate		Second Floor			
Add 10% For area weightage (Mangalore City)				292	
Terrace Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  321.20 Sqm  KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., and removal of work for columns, pillars, post and struts, square I rectangular/ polygon in plan including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KFWD 18-19,SI.No.4.32,Pg.No.16)  Foundation to First Floor Slab  Basic rate  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  Second Floor Slab to Roof  Basic rate  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  Second Floor Slab to Roof  Basic rate  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  Second Floor Slab to Roof  Basic rate  Add 10% For area weightage (Mangalore City)  Second Floor Slab to Roof  Basic rate  Add 10% For area weightage (Mangalore City)  Second Floor Slab to Roof  Basic rate  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Add 10% For area weightage (Mangalore City)					
Terrace Floor Basic rate Add 10% For area weightage (Mangalore City)  Rate 321.20 Sqm  KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., and removal of work for columns, pillars, post and struts, square I rectangular/ polygon in plan including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KFWD 18-19,SIN.04.32,Pg.No.16)  Foundation to First Floor Slab Basic rate Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  Basic rate Add 10% For area weightage (Mangalore City)  Rate  Second Floor Slab to Roof Basic rate Add 10% For area weightage (Mangalore City)  Second Floor Slab to Roof Basic rate Add 10% For area weightage (Mangalore City)  Second Floor Slab to Roof Basic rate Add 10% For area weightage (Mangalore City)  Second Floor Slab to Roof Basic rate Add 10% For area weightage (Mangalore City)  Second Floor Slab to Roof Basic rate  Lift Charges (2 x Rs. 5) Add 10% For area weightage (Mangalore City)  KSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal of formworkfor suspended floors, landings, balconies and likes, thickness upto 200 mm including cos materials, labour complete as per specifications.  Specifications No. KBS 4.6.2. do- 0 to 5 mts (KPWD 18-19, SI.No.4.29.2, Pg.No.16)  First Floor Basic rate Add 10% For area weightage (Mangalore City)  Basic rate Add 10% For area weightage (Mangalore City)  Ada Basic rate Add 10% For area weightage (Mangalore City)  Ada Basic rate Add 10% For area weightage (Mangalore City)  Basic rate Add 10% For area weightage (Mangalore City)  Basic rate Add 10% For area weightage (Mangalore City)  Ada Basic rate Add 10% For area weightage (Mangalore City)  Ada Basic rate Add 10% For area weightage (Mangalore City)  Ada Basic rate Add 10% For area weightage (Mangalore City)			Rate		Sam
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Basic rate Add 10% For area weightage (Mangalore City) Rate 321.20 Sqm  KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., and removal of work for columns, pillars, post and struts, square I rectangular/ polygon in plan including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.32,Pg.No.16)  Foundation to First Floor Slab  Basic rate Add 10% For area weightage (Mangalore City) Ads.6  First Floor Slab to Second Floor Slab  Basic rate Add 10% For area weightage (Mangalore City) Ads.6  Second Floor Slab to Roof Basic rate Add 10% For area weightage (Mangalore City) Add 10% For area w		Terrace Floor			
Add 10% For area weightage (Mangalore City)  Rate  321.20 Sqm  KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., and removal of work for columns, pillars, post and struts, square I rectangular/ polygon in plan including cost of all and arraisal, labour complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SLNo.4.32,Pg.No.16)  Foundation to First Floor Slab  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor Slab to Second Floor Slab  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  Second Floor Slab to Roof  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  Second Floor Slab to Roof  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  Second Floor Slab to Roof  Basic rate  Add 10% For area weightage (Mangalore City)  A5.6  Rate  Second Floor Slab to Roof  Basic rate  Add 10% For area weightage (Mangalore City)  A5.6  Rate  Second Floor Slab to Roof  Basic rate  Add 10% For area weightage (Mangalore City)  A5.6  Rate  Second Floor Slab to Roof  Basic rate  Add 10% For area weightage (Mangalore City)  A5.6  Rate  Fort. Rate  Add 10% For area weightage (Mangalore City)  A5.6  Rate  Add 10% For area weightage (Mangalore City)  A5.6  Rate  Fort. Rate  Add 10% For area weightage (Mangalore City)  A5.6  Rate  Add 10% For area weightage (Mangalore City)  A5.6  Rate  Fort. Rate  Add 10% For area weightage (Mangalore City)  A5.6  Rate  Add 10% For area weightage (Mangalore City)  A5.6  Add 10% For area weightage (Mangalore City)  A5.6  Add 10% For area weightage (Mangalore City)  A5.6  A6.0  A7.0  A7.0				202	
KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., and removal of work for columns, pillars, post and struts, square I rectangular/ polygon in plan including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.32,Pg.No.16)  Foundation to First Floor Slab  Basic rate					
KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., and removal of work for columns, pillars, post and struts, square I rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.32,Pg.No.16)  Foundation to First Floor Slab  Basic rate		Add 10% For area weightage (Mangalore City)	Deta		
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Add 10% For area weightage (Mangalore City)  Second Floor Slab to Roof  Basic rate  Lift Charges (2 x Rs. 5)  Add 10% For area weightage (Mangalore City)  KSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal of formworkfor suspended floors, landings, balconies and likes, thickness upto 200 mm including cosmaterials, labour complete as per specifications.  Specifications No. KBS 4.6.2.  do 0 to 5 mts (KPWD 18-19,Sl.No.4.29.2,Pg.No.16)  First Floor  Basic rate  Add 10% For area weightage (Mangalore City)  40.8				450	T
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Second Floor Slab to Roof  Basic rate		Add 10% For area weightage (Mangalore City)			
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Basic rate  Lift Charges (2 x Rs. 5)  Add 10% For area weightage (Mangalore City)  KSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal of formworkfor suspended floors, landings, balconies and likes, thickness upto 200 mm including cosmaterials, labour complete as per specifications.  Specifications No. KBS 4.6.2. do 0 to 5 mts (KPWD 18-19,SI.No.4.29.2,Pg.No.16)  First Floor  Basic rate  Add 10% For area weightage (Mangalore City)  40.8					
Lift Charges (2 x Rs. 5)  Add 10% For area weightage (Mangalore City)  KSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal of formworkfor suspended floors, landings, balconies and likes, thickness upto 200 mm including cosmaterials, labour complete as per specifications.  Specifications No. KBS 4.6.2. do 0 to 5 mts (KPWD 18-19,Sl.No.4.29.2,Pg.No.16)  First Floor  Basic rate  Add 10% For area weightage (Mangalore City)  40.8					T
Add 10% For area weightage (Mangalore City)  Rate  Sol.60 Sqm  KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of formworkfor suspended floors, landings, balconies and likes, thickness upto 200 mm including cosmaterials, labour complete as per specifications.  Specifications No. KBS 4.6.2. do 0 to 5 mts (KPWD 18-19,Sl.No.4.29.2,Pg.No.16)  First Floor  Basic rate  Add 10% For area weightage (Mangalore City)  40.8					
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Trace 440.00 Sqiii			Nate	7-70.00	
Second Floor		Second Floor			
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Add 10% For area weightage (Mangalore City) 40.8					

Second Floor  Basic rate Add 10% For area weightage (Mangalore City)  Rate  40.8  Add 10% For area weightage (Mangalore City)  Rate Add 10% For area weightage (Mangalore City)  Basic rate Add 10% For area weightage (Mangalore City)  Rate Add 10%		T T T T T T T T T T T T T T T T T T T	Rate	448.80	Sam
Basic rate Add 10% For area weightage (Mangalore City) Rate Add 10% For area weightage (Mangalore City) Rate Add 10% For area weightage (Mangalore City) Rate  KSRB 4-6.11 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Staris (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification. No. KBS 4-6.2 (KPWD 18-19,SIN.04.38,Pg.No.17)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City) First Floor Basic rate Add 10% For area weightage (Mangalore City) Rate First Floor  Basic rate Add 10% For area weightage (Mangalore City) First Floor  KSRB 4-6.10 : Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chaig, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4-6.2 (KPWD 18-19,SIN.04.37,Pg.No.17)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City) Rate 361.90  First Floor Basic rate Add 10% For area weightage (Mangalore City) Rate 373  Rate 381.90  KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for chaigh, corbein structure of the structure of th			rate	440.00	Oq.
Add 10% For area weightage (Mangalore City)  Rate  448.80 Sqm  KSRB 4-6.11 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification. Specification No. KSB 4-6.2 (KPWD 18-19,SIN 0-4 38,Pg No 17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-6.10 : Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chajia, corbels etc., including edges including cost of all materials, labour complete as per specifications.  Specifications No. KSB 4-6.2 (KPWD 18-19,SIN 0-4 37,Pg No.17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  Add 10% For area weightage (Mangalore City)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  329  Add 10% For area weightage (Mangalore City)  Rate  339  Add 10% For area weightage (Mangalore City)  Rate  341  Add 10% For area weightage (Mangalore City)  Rate  342  Add 10% For area weightage (Mangalore City)  Rate  343  Add 10% For area weightage (Mangalore City)  Rate  340  Add 10% For area weightage (Mangalore City)  Rate  351  Add 10% For area weightage (Mangalore City)  Rate  361  Add 10% For area weightage (Mangalore City)  Rate  361  Add 10% For area weightage (Mangalore City)  Rate  370  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  Rate  370  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore Cit		Second Floor			
KSRB 4-6.11-Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification. Specification No. KBS 4-6.2 (KPWD 18-19,SINo.4-38,Pg.No.17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-6.10-Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for chalja, corbets etc., including edges including cost of all materials, labour complete as per specification. Specification No. KBS 4-6.2 (KPWD 18-19,SINo.4-37,Pg.No.17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-6.10-Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for chalja, corbets etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4-6.2 (KPWD 18-19,SINo.4-37,Pg.No.17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  329  Add 10% For area weightage (Mangalore City)  Rate  339  KSRB 4-6.4 : 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. Specification No. KBS 4-6.2  Specification No. KBS 4-6.2  RSRB 4-9.2 : Providing T.M.T steel reinforcement for R.C.C work including straighting, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications. Specification No. KBS 4-6.3  The base rate  Add 10% For area weightage (Mangalore City)  Rate  37780.2  First Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  377782  Rate  37780.20  Rate		Basic rate		408	
KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification. Specification No. KBS 4-6.2 (KPWD 18-19,SINo.4-38,Pg.No.17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chalja, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4-6.2  (KPWD 18-19,SINo.4.37,Pg.No.17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  Add 10% For area weigh		Add 10% For area weightage (Mangalore City)			
work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification. No. KBS 4.6.2 (KPWD 18-19,SI.No.4.38,Pg.No.17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  KSRB 4-6.10 Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chaija, corbets etc., including edges including cost of all materials, labour complete as per Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.37,Pg.No.17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  Add 10% For area weightage (Mangalore City)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  32.9  Add 10% For area weightage (Mangalore City)  Rate  33.9  Add 10% For area weightage (Mangalore City)  Rate  34.0  First Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  34.0  Add 10% For area weightage (Mangalore City)  Rate  35.9  KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pliasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  36.1  Add 10% For area weightage (Mangalore City)  Rate  37.0  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 I 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 complete as per design (laps, hooks and wastage shall not be measured such as per specifications. Specification No. KBS 4.6.3  The basic rate  Add 10% For area weightage (Mangalore City)  Rate  70782  First Floor  Bas		3 3 \ 3 //	Rate		
work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification. No. KBS 4.6.2 (KPWD 18-19,SI.No.4.38,Pg.No.17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  KSRB 4-6.10 Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chaija, corbets etc., including edges including cost of all materials, labour complete as per Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.37,Pg.No.17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  Add 10% For area weightage (Mangalore City)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  32.9  Add 10% For area weightage (Mangalore City)  Rate  33.9  Add 10% For area weightage (Mangalore City)  Rate  34.0  First Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  34.0  Add 10% For area weightage (Mangalore City)  Rate  35.9  KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pliasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  36.1  Add 10% For area weightage (Mangalore City)  Rate  37.0  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 I 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 complete as per design (laps, hooks and wastage shall not be measured such as per specifications. Specification No. KBS 4.6.3  The basic rate  Add 10% For area weightage (Mangalore City)  Rate  70782  First Floor  Bas			1		•
Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Add 10% For area weightage (Mangalore City)  KSRB 4-6.10 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for chajia, corbels etc., including edges including cost of all materials, labour complete as per specification No. KBS 4.6.2 (KPWD 18-19,SI No.4.37,Pg.No.17)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Add 10% For area weightage (Mangalore City)  Rate 36.90  KSRB 4-6.4 : 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. Specification No. KBS 4.6.2  Basic rate Add 10% For area weightage (Mangalore City)  KSRB 4-6.4 : 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. Specification No. KBS 4.6.2  Basic rate Add 10% For area weightage (Mangalore City)  Rate 397.10 Sqm  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 I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500  (KPWD 18-19, SI. No. 4.46.2, Pg No.18)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic ra	35	work for Stairs (excluding landing) except spiral staircase include per specification.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.38,Pg.No.17)	•	. •	
Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-6.10 : Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chajia, corbels etc., including edges including cost of all materials, labour complete as per specification No. KBS 4.6.2  (KPWD 18-19,SI.No.4.37,Pg.No.17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  329  Add 10% For area weightage (Mangalore City)  Rate  339  Add 10% For area weightage (Mangalore City)  Rate  340  First Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  340  Rate  351,90 Sqm  KSRB 4-6.4 : 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. Specification No. KBS 4.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  361  Add 10% For area weightage (Mangalore City)  Rate  377.10 Sqm  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 lor welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications. Specification No. KBS 4.6.2  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 lor welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications. Specification No. KBS 4.6.2  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 lor welding wherever required, tying with binding wire and canchoring to the adjoining members wherever necessary				504	
First Floor Basic rate Add 10% For area weightage (Mangalore City)  KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chajia, corbels etc., including edges including cost of all materials, labour complete as per specification No. KBS 4.6.2 ((KPWD 18-19,SI.No.4.37,Pg.No.17)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  Rate 369,0 Sqm  First Floor Basic rate Add 10% For area weightage (Mangalore City)  Rate 361,90 Sqm  KSRB 4-6.4 : 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. Specification No. KBS 4.6.2  Basic rate Add 10% For area weightage (Mangalore City)  Rate 361,90 Sqm  KSRB 4-9.2 : 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. Specification No. KBS 4.6.2  Basic rate Add 10% For area weightage (Mangalore City)  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 I 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 complete as per specifications. Specification No. KBS 4.6.2, Pg No.18)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  Rate 70782  Rate 77860.20 MT					
First Floor Basic rate 561 Add 10% For area weightage (Mangalore City) Rate 617.10 Sqm  KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chajia, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (KFWD 18-19,SI.No.4.37,Pg.No.17)  Ground Floor Basic rate 32.9 Add 10% For area weightage (Mangalore City) 32.9  First Floor Basic rate 32.9 Add 10% For area weightage (Mangalore City) 32.9  KSRB 4-6.4 : 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. Specification No. KBS 4-6.2  Basic rate 361 Add 10% For area weightage (Mangalore City) 32.9  Basic rate 361 Add 10% For area weightage (Mangalore City) 36.1  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 I 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 complete as per specifications. Specification No. KBS 4-6.3  TMT bars Fe 500 (KPWD 18-19, SI.No.4.46.2, Pg No.18)  Ground Floor Basic rate 70782 Add 10% For area weightage (Mangalore City) 7078.2  First Floor Basic rate 77860.20 MT		Add 10% For area weightage (Mangalore City)	Data		Carm
Basic rate Add 10% For area weightage (Mangalore City)  KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chajja, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (KPWD 18-19,Sl.No.4.37,Pg.No.17)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City) Add 10% F			Rate	617.10	Sqm
Basic rate Add 10% For area weightage (Mangalore City)  KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chajja, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (KPWD 18-19,Sl.No.4.37,Pg.No.17)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City) Add 10% F		First Floor			
Add 10% For area weightage (Mangalore City)  Rate 617.10 Sqm  KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chajja, corbels etc., including edges including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SLNo.4.37,Pg.No.17)  Ground Floor  Basic rate Add 10% For area weightage (Mangalore City)  Rate 361.90 Sqm  First Floor  Basic rate Add 10% For area weightage (Mangalore City)  Rate 361.90 Sqm  KSRB 4-6.4 : 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.  Specification No. KBS 4.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  Specification No. KBS 4.6.2  Basic rate Add 10% For area weightage (Mangalore City)  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 I or welding wherever required, tying with binding wire and annotoning 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500 (KPWD 18-19,SLNo.4.46.2,Pg No.18)  Ground Floor  Basic rate 70782  Add 10% For area weightage (Mangalore City)  Rate 77860.20 MT				561	
KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chajia, corbels etc., including edges including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,Sl.No.4.37,Pg.No.17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  Sage  Add 10% For area weightage (Mangalore City)  Sage  KSRB 4-6.4 : 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. Specification No. KBS 4.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  Sage  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 1 or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500 (KPWD 18-19, SIN o. 4.46.2, Pg No.18)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  7078.2  Rate  77860.20 INT					
KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for chajja, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.37,Pg.No.17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  Rate  Add 10% For area weightage south as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  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 I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500  (KPWD 18-19,SI.No.4.46.2,Pg No.18)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  70782  Add 10% For area weightage (Mangalore City)  Rate  77860.20 MT		Add 10% For area weightage (Mangalore City)	Pato		Sam
work for chajja, corbels etc., including edges including cost of all materials, Tabour complete as per specifications. Specification No. KBS 4.6.2 (KPWD 18-19,Sl.No.4.37,Pg.No.17)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  329  Add 10% For area weightage (Mangalore City)  Rate  329  Add 10% For area weightage (Mangalore City)  Rate  329  Add 10% For area weightage (Mangalore City)  Rate  329  Rate  361.90 Sqm  KSRB 4-6.4: 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. Specification No. KBS 4.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  361  Add 10% For area weightage (Mangalore City)  Rate  370  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 I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500  (KPWD 18-19,Sl.No.4.46.2,Pg No.18)  Ground Floor  Basic rate  70782  Add 10% For area weightage (Mangalore City)  Rate  77860.20 MT  First Floor  Basic rate  70782			Rate	617.10	Sqiii
Basic rate Add 10% For area weightage (Mangalore City) Rate 32.9  First Floor Basic rate Add 10% For area weightage (Mangalore City) 32.9  Add 10% For area weightage (Mangalore City) 32.9  Rate 361.90 Sqm  KSRB 4-6.4: 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. Specification No. KBS 4.6.2  Basic rate Add 10% For area weightage (Mangalore City) 36.1  Rate 397.10 Sqm  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 I 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 complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500 (KPWD 18-19,Sl.No.4.46.2,Pg No.18)  Ground Floor  Basic rate 70782 Add 10% For area weightage (Mangalore City) Rate 77860.20 MT  First Floor Basic rate 70782	36	work for chajja, corbels etc., including edges including cost of specifications.  Specification No. KBS 4.6.2	•	•	
Basic rate Add 10% For area weightage (Mangalore City) Rate 32.9  First Floor Basic rate Add 10% For area weightage (Mangalore City) 32.9  Add 10% For area weightage (Mangalore City) 32.9  Rate 361.90 Sqm  KSRB 4-6.4: 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. Specification No. KBS 4.6.2  Basic rate Add 10% For area weightage (Mangalore City) 36.1  Rate 397.10 Sqm  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 I 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 complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500 (KPWD 18-19,Sl.No.4.46.2,Pg No.18)  Ground Floor  Basic rate 70782 Add 10% For area weightage (Mangalore City) Rate 77860.20 MT  First Floor Basic rate 70782		Ground Floor			
First Floor  Basic rate  Add 10% For area weightage (Mangalore City)  XSRB 4-6.4: 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.  Specification No. KBS 4.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  XSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500  (KPWD 18-19,SI.No.4.46.2,Pg No.18)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  7078.2  Rate  77860.20 MT  First Floor  Basic rate  70782		Basic rate		329	
First Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  Rate  Scale  KSRB 4-6.4: 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.  Specification No. KBS 4.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  361  Add 10% For area weightage (Mangalore City)  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 1 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500  (KPWD 18-19,SI.No.4.46.2,Pg No.18)  Ground Floor  Basic rate  70782  Add 10% For area weightage (Mangalore City)  Rate  77860.20 MT  First Floor  Basic rate  70782		Add 10% For area weightage (Mangalore City)		32.9	
Basic rate Add 10% For area weightage (Mangalore City)  Rate 361.90 Sqm  KSRB 4-6.4: 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. Specification No. KBS 4.6.2  Basic rate Add 10% For area weightage (Mangalore City)  SRRE Add 10% For area weightage (Mangalore City)  SRRE ASP.: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500  (KPWD 18-19,SI.No.4.46.2,Pg No.18)  Ground Floor  Basic rate  70782  Add 10% For area weightage (Mangalore City)  Rate 77860.20 MT  First Floor  Basic rate 70782			Rate	361.90	Sqm
Basic rate Add 10% For area weightage (Mangalore City)  Rate 361.90 Sqm  KSRB 4-6.4: 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. Specification No. KBS 4.6.2  Basic rate Add 10% For area weightage (Mangalore City)  SRRE Add 10% For area weightage (Mangalore City)  SRRE ASP.: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500  (KPWD 18-19,SI.No.4.46.2,Pg No.18)  Ground Floor  Basic rate  70782  Add 10% For area weightage (Mangalore City)  Rate 77860.20 MT  First Floor  Basic rate 70782					
Add 10% For area weightage (Mangalore City)  Rate  361.90 Sqm  KSRB 4-6.4: 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. Specification No. KBS 4.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  Structure of the discourse of the d		First Floor	•		•
KSRB 4-6.4 : 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. Specification No. KBS 4.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  Sqm  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 I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500  (KPWD 18-19,SI.No.4.46.2,Pg No.18)  Ground Floor  Basic rate  70782  Add 10% For area weightage (Mangalore City)  Rate  77860.20 MT  First Floor  Basic rate		Basic rate		329	
KSRB 4-6.4: 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. Specification No. KBS 4.6.2  Basic rate Add 10% For area weightage (Mangalore City)  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 I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500  (KPWD 18-19,SI.No.4.46.2,Pg No.18)  Ground Floor  Basic rate Add 10% For area weightage (Mangalore City)  Rate 70782  Rate 77860.20 MT  First Floor  Basic rate 70782		Add 10% For area weightage (Mangalore City)			
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. Specification No. KBS 4.6.2  Basic rate  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  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 I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500  (KPWD 18-19,Sl.No.4.46.2,Pg No.18)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  70782  Rate  77860.20 MT  First Floor  Basic rate  70782			Rate	361.90	Sqm
Add 10% For area weightage (Mangalore City)  Rate 397.10  Rate 397.10  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 I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500 (KPWD 18-19,Sl.No.4.46.2,Pg No.18)  Ground Floor  Basic rate 70782 Add 10% For area weightage (Mangalore City) Rate 77860.20 MT  First Floor Basic rate 70782	37	work for vertical surface such as walls at any thickness, including and string courses cost of all materials, labour complete as per Specification No. KBS 4.6.2	ing attached	pilasters, buttre	
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 I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500 (KPWD 18-19,SI.No.4.46.2,Pg No.18)  Ground Floor  Basic rate  70782  Add 10% For area weightage (Mangalore City)  Rate  77860.20 MT  First Floor  Basic rate					
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 I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500 (KPWD 18-19,SI.No.4.46.2,Pg No.18)  Ground Floor  Basic rate  70782  Add 10% For area weightage (Mangalore City)  Rate  77860.20 MT  First Floor  Basic rate		Add 10% For area weightage (Mangalore City)			
hooking, placing in position, lapping and I 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 complete as per specifications. Specification No. KBS 4.6.3  TMT bars Fe 500 (KPWD 18-19,SI.No.4.46.2,Pg No.18)  Ground Floor  Basic rate  70782  Add 10% For area weightage (Mangalore City)  Rate 77860.20 MT  First Floor  Basic rate  70782			Rate	397.10	Sqm
Basic rate   70782	38	hooking, placing in position, lapping and I or welding wherever ranchoring to the adjoining members wherever necessary compl shall not be measured and paid) cost of materials, labour, HOM No. KBS 4.6.3  TMT bars Fe 500	required, tyin lete as per d	g with binding w esign (laps, hook	ire and ss and wastage
Basic rate   70782		Ground Floor			
Add 10% For area weightage (Mangalore City)       7078.2         Rate       77860.20 MT         First Floor       70782				70782	
Rate   77860.20 MT		Add 10% For area weightage (Mangalore City)			
Basic rate 70782			Rate	77860.20	MT
		First Floor			
Lift Charges ( 1 x Rs.747.0) 747		Basic rate		70782	
		Lift Charges (1 x Rs.747.0)		747	

		<u> </u>		T
	Add 10% For area weightage (Mangalore City)		7152.9	
		Rate	78681.90	МТ
	Second Floor			
	Basic rate		70782	
	Lift Charges ( 2 x Rs.747.0)		1494	
	Add 10% For area weightage (Mangalore City)		7227.6	
		Rate	79503.60	MT
	Third Floor			
	Basic rate		70782	
	Lift Charges ( 3 x Rs.747.0)		2241	
	Add 10% For area weightage (Mangalore City)		7302.3	
		Rate	80325.30	MT
39	reinforcement of all diameters as per IS: 13620-1993 includin of cost on account of careful handling, PVC coated binding wi supplied by coating agency, repair work, loading, unloading a per specification and as directed by the Engineer in charge. do For 10mm to 16mm dia bars (KPWD 18-19,SI.No.7.21.1,Pg.No.40)	re instead of G	BI Binding wire, to	ouch up materia
	Ground Floor			
	Basic rate		10535	
	Add 10% For area weightage (Mangalore City)		1053.5	
	Add 10701 of area weightage (Mangalore Oity)	Rate	11588.50	
		Nate	11300.30	IVII
40	Structural steel work riveted, bolted or welded in built up secti hoisting, fixing in position and applying,priming coat of approv (CPWD 2018,SI.No.10.2,Pg.No.183)		·	including cullin
	Basic rate		101750	
		Rate	101750.00	MT
41	Refixing the existing Structural steel (Roof Truss) work riveted andframed work, including cutting, hoisting, fixing in position a primer all complete (Rate Analysis)		primingcoat of a	pproved steel
	Basic rate		20.4	
		Rate	20.40	KG
42	Fixing corrugated G.S. sheet roofing including vertical / curved hooks, bolts and nuts 8 mm diameter with bitumen and G.I. lin with white lead, including a coat of approved steel primer and sheets complete (up to any pitch in horizontal/ vertical or curve rafters and trusses and including cutting to size and shape wh (Rate Analysis)	npet washers of a two coats of a ed surfaces), e	or with G.I. limpe pproved paint or excluding the cos	et washers filled n overlapping of
	Basic rate		188	
		Rate	188.00	KG
43	Providing corrugated G.S. sheet roofing including vertical / cur hooks, bolts and nuts 8 mm diameter with bitumen and G.I. lin with white lead, including a coat of approved steel primer and sheets complete (up to any pitch in horizontal/ vertical or curve rafters and trusses and including cutting to size and shape wh 1.00 mm thick with zinc coating not less than 275 gm/m² (CPWD)	npet washers of a two coats of a ed surfaces), e	or with G.I. limpe pproved paint or excluding the cos	et washers filled In overlapping of
	Pagia rata	<u> </u>	4004.05	1
	Basic rate	5 (	1234.25	
		Rate	1234.25	odw
		1		1

44	sand for manufacture of blocks of approved size, shape and colo 281 kg per sqm over 50mm thick sand bed (average thickness) an tons compaction force thereby forcing part of sand underneath to	B 14.6-1: do- heavy duty cobble stones 60mm thick D 18-19,SI.No.14.6,Pg.No.103)		essive strength of brator having 3 nts, final
	Basic rate		1056	
	Add 10% For area weightage (Mangalore City)		105.6	
		Rate	1161.60	Sqm
45	Providing and laying eco-loc permeable pavers,80mm or equivaler vibratory compaction, of approved size, design & shape, laid in recincluding 50mm thick compacted bed of coarse sand, filling the jointhe direction of Engineer-in-charge.	quired colo	our and pattern o	ver and
	Basic Rate		2073	
		Rate	2073	Sqm
46	Providing and fixing 15cm wide,45cm overall semi circular plain Gisize,bolts,nuts and washers etc, including making necessary conn 0.8mm thick with zinc coating not less than 275gm/m2 (CPWD 2018,SI.No.12.7.1,Pg.No.211)  Basic rate	•		es complete,
		Rate	765.00	Rm
47	Providing and fixing unplasticised PVC pipes with working presmaking good the floor, including cost of all materials, labour charaspecifications. do- with 160mm outer dia KPWD 18-19,SI.No.11.56.4,Pg.No.77		•	•
	Basic rate		1252	
	Add 10% For area weightage (Mangalore City)		125.2	
	- saa voyo vo a a aa a	Rate	1377.20	
48	Providing and constructing Laterite size stone masonry including curing etc complete as per specification. I.S. 3620/1979 having converge N/mm2 for saturated dry samples.  For basement in CM 1:6 (Cement 45 kgs/M3) (KPWD 2018-19,42.5.1)			
	Masonary Below Plinth	1		T
	Basic rate		3181	
	Add 10% For area weightage (Mangalore City)	Rate	318.1 <b>3499.10</b>	Cum
		Nate	J <del>4</del> 33.10	Julii
	Ground Floor	1		I
	Basic rate		3391	
	Add 10% For area weightage (Mangalore City)		339.1	
		Rate	3730.10	Cum
	E w Elson			
	First Floor	1	2004	<u> </u>
	Basic rate		3391	
	Lift Charges  Add 10% For area weightage (Mangalore City)		312 370.3	
	Add 10% For area weightage (Mangalore City)	Rate	4073.30	
		Nate	4013.30	Julii
	For super structure in CM 1:6 (Cement 45 kgs/M3)- Second Floor (KPWD 2018-19,42.5.3)			l

Sast Crate		D:		2004	
Add 10% For area weightage (Mangalore City)		Basic rate		3391	
Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete Blocks confirming to IS-2185 (part-3) 1984 and IS 6441-1972 of compressive strength of 30 M/sq mm with a thin layer of polymer based jointing solvent for super structure with necessary scaffolding, curing including cost of all materials, labour, leads lift etc, complete as per specifications. with 600x200x150mm size Blocks (KPWD 18-19,SINo.6.32.2,Pg.No.31)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  1504  Add 10% For area weightage (Mangalore City)  Rate  1504  Add 10% For area weightage (Mangalore City)  Basic rate  Lift Charges (1 x Rs.6)  Second Floor  Basic rate  Lift (Parges (2 x Rs.6)  Sub Total  Add 10% For area weightage (Mangalore City)  Third Floor  Basic rate  Lift Charges (2 x Rs.6)  Third Floor  Basic rate  Lift Charges (3 x Rs.6)  Third Floor  Basic rate  Lift Charges (3 x Rs.6)  Rate  1667.60 Sqm  Third Floor  Basic rate  Lift Charges (3 x Rs.6)  Rate  Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of 3.0 M/sq mm with a thin layer of polymer based jointing solvent for super structure with necessary scaffolding, curing including cost of all materials, labour, leads lift etc, complete as per specifications.  With 500x200x230mm size Blocks  (KPWD 18-19,SI.No.6.32.4,Pg.No.31)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  2066  Add 10% For area weightage (Mangalore City)  Rate  2072  Add 10% For area weightage (Mangalore City)  Rate  2066  Pg.No.31  Sub Total  Add 10% For area weightage (Mangalore City)  Rate  2066  Pg.No.31  Sub Total  Add 10% For area weightage (Mangalore City)  Rate  2279.20 Sqm  First Floor  Basic rate  Lift Charges (1 x Rs.6)  Rate  2285.80 Sqm  Third Floor  Basic rate  Lift Charges (2 x Rs.6)  Sub Total  Add 10% For area weightage (Mangalore City)  Rate  2279.20 Sqm					
Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved erated concrete Blocks confirming to IS.2185 (part-3) 1984 and IS 6441-1972 of compressive strength of 3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccessary scaffolding, curing including cost of all materials, labour, leads if it etc., complete as per specifications.  with 600x200x 150mm size Blocks (KPWD 18-19,SIN 6.32,2,Pg.No.31)  Ground Floor  Basic rate 150.4  Add 10% For area weightage (Mangalore City) Rate 150.4  Add 10% For area weightage (Mangalore City) Rate 1661.00 Sqm  Basic rate 1504.00 Sqm  Second Floor  Basic rate 1504.00 Sqm  Second Floor  Basic rate 1661.00 Sqm  Basic rate 1661.00 Sqm  Rate 1661.00 Sqm  Second Floor  Basic rate 1504  Lift Charges (2 x Rs.6) 12 Pg.No.31  Sub Total 1516  Add 10% For area weightage (Mangalore City) 1522  Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved erated concrete Blocks confirming to IS.2185 (part-3) 1984 and IS 6441-1972 of compressive strength of 3.0N/sq mm with a thin layer of polymer based pointing solvent for super structure with neccessary scaffolding, curing including cost of all materials, labour, leads if it etc, complete as per specifications.  with 600x200x230mm size Blocks (KPWD 15-19,SIN 6.32 4,Pg.No.31)  Ground Floor  Basic rate 2066  Add 10% For area weightage (Mangalore City) 2066  Add 50% For area weightage (Mangalore City) 2066  Add 50% For area weightage (Mangalore City) 2072  Add		Add 10% For area weightage (Mangalore City)			
Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with necessary scaffolding, curing including cost of all materials, labour, leads lift etc, complete as per specifications.   with 600x200x150mm size Blocks (KPWD 18-19,SI.No.6.32.2,Pg.No.31)     First Floor			Rate	4416.50	Cum
Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with necessary scaffolding, curing including cost of all materials, labour, leads lift etc, complete as per specifications.   with 600x200x150mm size Blocks (KPWD 18-19,SI.No.6.32.2,Pg.No.31)     First Floor					
thin layer of polymer based jointing solvent for super structure with neccessary scaffolding, curing including cost and materials, labour, leads lift etc, complete as per specifications. with 600x200x150mm size Blocks (KPWD 18-19,SI,No.6.32.2,Pg.No.31)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Add 10% For area weightage (Mangalore City)  Basic rate  Lift Charges (1 x R.6.)  Second Floor  Basic rate  Lift Charges (2 x Rs.6)  Lift Charges (2 x Rs.6)  Sub Total  Add 10% For area weightage (Mangalore City)  Basic rate  Lift Charges (2 x Rs.6)  Lift Charges (2 x Rs.6)  Sub Total  Add 10% For area weightage (Mangalore City)  Basic rate  Lift Charges (3 x Rs.6)  Lift Charges (3 x Rs.6)  Sub Total  Add 10% For area weightage (Mangalore City)  Basic rate  Lift Charges (3 x Rs.6)  Third Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  1504  Lift Charges (3 x Rs.6)  Sub Total  Add 10% For area weightage (Mangalore City)  Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete Blocks confirming to IS-2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sg mm with a thin layer of polymer based jointing solvent for super structure with neccessary scaffolding, curing including cost of all materials, labour, leads lift etc, complete as per specifications. with 600x200x230ms is 28 Blocks (KPWD 18-19,Sl.No.6.32.4,Pg.No.31)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  2066  Pg.No.31  Sub Total  Add 10% For area weightage (Mangalore City)  Provincing For area weightage (Mangalore City)  Basic rate  Add 10% For area weightage (Mangalore City)  Basic rate  Lift Charges (2 x Rs.6)  Lift Charges (2 x Rs.6)  Sub Total  Add 10% For area weightage (Mangalore City)  Basic rate  Add 10% For area weightage (Mangalore City)  Provincing and constructing mon base provincing mongalore City)  Basic rate  Add 10% For area weightage		1		•	
dost of all materials, labour, lead& lift etc, complete as per specifications. with 600x200x150mm size Blocks (KPWD 18-19,Sl,No.6.32.z.Pg.No.31)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  150.4  Add 10% For area weightage (Mangalore City)  Basic rate  Lift Charges (1 x Rs.6)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Second Floor  Basic rate  Lift Charges (2 x Rs.6)  Second Floor  Basic rate  Lift Charges (2 x Rs.6)  Lift Charges (3 x Rs.6)  Basic rate  Lift Charges (3 x Rs.6)  Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete Blocks confirming to IS-2185 (part-3) 1984 and IS 6441-1972 of compressive strength of 3.0 N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccessary scalfolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. with 600x200x230mm size Blocks (KPVD 18-19,SI.No.6.32.4,Pg.No.31)  Ground Floor  Basic rate  Lift Charges (1 x Rs.6)  Lift Charges (1 x Rs.6)  Basic rate  Lift Charges (1 x Rs.6)  Basic rate  Lift Charges (1 x Rs.6)  Basic rate  Lift Charges (1 x Rs.6)  Lift Charges (1 x Rs.6)  Basic rate  Lift Charges (1 x Rs.6)  Lift Charg					
with 600x200x150mm size Blocks (KPWD 18-19,SINo.6.32.2,Pg.No.31)  Ground Floor Basic rate		thin layer of polymer based jointing solvent for super struct	ure with neccesar	y scaffolding, cu	ring including
CKPWD 18-19,SI.No.6.32.2,Pg.No.31)   Ground Floor   Basic rate	49	cost of all materials, labour, lead& lift etc, complete as per	specifications.		
Ground Floor   Basic rate		with 600x200x150mm size Blocks			
Basic rate		(KPWD 18-19,SI.No.6.32.2,Pg.No.31)			
Basic rate					
Add 10% For area weightage (Mangalore City)				4504	T
First Floor   Basic rate   1504.00   Sqm					
First Floor   Basic rate		Add 10% For area weightage (Mangalore City)			_
Basic rate			Rate	1504.00	Sqm
Lift Charges (1 x Rs.6)					
Sub Total					
Add 10% For area weightage (Mangalore City)   Rate   1661.00   Sqm					Pg.No.31
Second Floor   Basic rate   1504					
Second Floor   Basic rate   1504		Add 10% For area weightage (Mangalore City)		151	
Basic rate			Rate	1661.00	Sqm
Lift Charges (2 x Rs.6)		Second Floor			
Sub Total				1504	
Add 10% For area weightage (Mangalore City)   Rate   1667.60   Sqm		Lift Charges (2 x Rs.6)		12	Pg.No.31
Third Floor   Basic rate   1504		Sub Total		1516	
Third Floor   Basic rate   1504		Add 10% For area weightage (Mangalore City)		151.6	
Basic rate			Rate	1667.60	Sqm
Lift Charges (3 x Rs.6) 18 Pg.No.31  Sub Total 1522  Add 10% For area weightage (Mangalore City) 152.2  Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccessary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. with 600x200x230mm size Blocks (KPWD 18-19,SI.No.6.32.4,Pg.No.31)  Ground Floor  Basic rate 2066 Add 10% For area weightage (Mangalore City) 206.6  First Floor  Basic rate 2066 Lift Charges (1 x Rs.6) 6 Pg.No.31  Sub Total 2072 Add 10% For area weightage (Mangalore City) 207.2  Add 10% For area weightage (Mangalore City) 207.2  Second Floor  Basic rate 2066 Lift Charges (2 x Rs.6) 12 Pg.No.31  Sub Total 2078 Add 10% For area weightage (Mangalore City) 207.8  Second Floor  Basic rate 2066 Lift Charges (2 x Rs.6) 12 Pg.No.31  Sub Total 2078 Add 10% For area weightage (Mangalore City) 207.8  Third Floor Basic rate 2285.80 Sqm		Third Floor			•
Sub Total   1522   152.2   152.2   152.2   152.2   1674.20   Sqm		Basic rate		1504	
Add 10% For area weightage (Mangalore City)  Rate  1674.20 Sqm  Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. with 600x200x230mm size Blocks (KPWD 18-19,Sl.No.6.32.4,Pg.No.31)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Pirst Floor  Basic rate  2066  Lift Charges (1 x Rs.6)  Second Floor  Basic rate  2072  Add 10% For area weightage (Mangalore City)  Rate  2279.20 Sqm  Second Floor  Basic rate  2066  Lift Charges (2 x Rs.6)  12 Pg.No.31  Sub Total  Add 10% For area weightage (Mangalore City)  207.8  Add 10% For area weightage (Mangalore City)  207.8  Pinird Floor  Basic rate  2086  Lift Charges (2 x Rs.6)  2078  Add 10% For area weightage (Mangalore City)  207.8  Pinird Floor  Basic rate  2086  2285.80 Sqm		Lift Charges (3 x Rs.6)		18	Pg.No.31
Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of 3.0 N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. with 600x200x230mm size Blocks (KPWD 18-19,SI.No.6.32.4,Pg.No.31)    Ground Floor		Sub Total		1522	
Provinding and constructing non load bearing wall with Light Weight Concrete (Autoclaved aerated concrete Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of 3.0 N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. with 600x200x230mm size Blocks (KPWD 18-19,Sl.No.6.32.4,Pg.No.31)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Pirst Floor  Basic rate  2066  Lift Charges (1 x Rs.6)  Sub Total  Add 10% For area weightage (Mangalore City)  Rate  2279.20 Sqm  Second Floor  Basic rate  2066  Lift Charges (2 x Rs.6)  12 Pg.No.31  Sub Total  Add 10% For area weightage (Mangalore City)  207.2  Sqm  Second Floor  Basic rate  2066  Lift Charges (2 x Rs.6)  12 Pg.No.31  Sub Total  Add 10% For area weightage (Mangalore City)  207.8  Third Floor  Basic rate  2066  Lift Charges (2 x Rs.6)  12 Pg.No.31  Sub Total  Add 10% For area weightage (Mangalore City)  207.8  Third Floor  Basic rate		Add 10% For area weightage (Mangalore City)		152.2	
Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of 3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. with 600x200x230mm size Blocks (KPWD 18-19,SI.No.6.32.4,Pg.No.31)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Basic rate  Lift Charges (1 x Rs.6)  Sub Total  Second Floor  Basic rate  Second Floor  Basic rate  Lift Charges (2 x Rs.6)  Second Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  2072  Rate  2279.20 Sqm  Second Floor  Basic rate  Lift Charges (2 x Rs.6)  Lift Charges (2 x Rs.6)  Rate  2078  Add 10% For area weightage (Mangalore City)  Rate  2078  Add 10% For area weightage (Mangalore City)  Rate  2078  Add 10% For area weightage (Mangalore City)  Rate  2078  Add 10% For area weightage (Mangalore City)  Rate  2285.80 Sqm  Third Floor  Basic rate			Rate	1674.20	Sqm
Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of 3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. with 600x200x230mm size Blocks (KPWD 18-19,SI.No.6.32.4,Pg.No.31)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Basic rate  Lift Charges (1 x Rs.6)  Sub Total  Second Floor  Basic rate  Second Floor  Basic rate  Lift Charges (2 x Rs.6)  Second Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Rate  2072  Rate  2279.20 Sqm  Second Floor  Basic rate  Lift Charges (2 x Rs.6)  Lift Charges (2 x Rs.6)  Rate  2078  Add 10% For area weightage (Mangalore City)  Rate  2078  Add 10% For area weightage (Mangalore City)  Rate  2078  Add 10% For area weightage (Mangalore City)  Rate  2078  Add 10% For area weightage (Mangalore City)  Rate  2285.80 Sqm  Third Floor  Basic rate					•
Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of 3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. with 600x200x230mm size Blocks (KPWD 18-19,SI.No.6.32.4,Pg.No.31)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  Basic rate  Lift Charges (1 x Rs.6)  Sub Total  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  2072  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  2072  Rate  2279.20 Sqm  Second Floor  Basic rate  2066  Lift Charges (2 x Rs.6)  12 Pg.No.31  Sub Total  Add 10% For area weightage (Mangalore City)  Rate  2078  Add 10% For area weightage (Mangalore City)  Rate  2078  Add 10% For area weightage (Mangalore City)  Rate  2285.80 Sqm  Third Floor  Basic rate		Provinding and constructing non load bearing wall with Lig	ht Weight Concre	te (Autoclaved a	aerated concrete
thin layer of polymer based jointing solvent for super structure with neccesary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. with 600x200x230mm size Blocks (KPWD 18-19,SI.No.6.32.4,Pg.No.31)  Ground Floor  Basic rate 2066 Add 10% For area weightage (Mangalore City) 206.6  First Floor Basic rate 2066 Lift Charges (1 x Rs.6) 6 Pg.No.31  Sub Total 2072 Add 10% For area weightage (Mangalore City) 207.2  Rate 2279.20 Sqm  Second Floor Basic rate 2066 Lift Charges (2 x Rs.6) 207.2  Rate 2279.20 Sqm  Second Floor Basic rate 2066 Lift Charges (2 x Rs.6) 12 Pg.No.31  Sub Total 2078 Add 10% For area weightage (Mangalore City) 207.8  Add 10% For area weightage (Mangalore City) 207.8  Third Floor Basic rate 2285.80 Sqm  Third Floor Basic rate 2285.80 Sqm					
50         cost of all materials, labour, lead& lift etc, complete as per specifications. with 600x200x230mm size Blocks (KPWD 18-19,Sl.No.6.32.4,Pg.No.31)           Ground Floor           Basic rate         2066           Add 10% For area weightage (Mangalore City)         206.6           First Floor         Rate         2066.00 Sqm           Basic rate         2066           Lift Charges (1 x Rs.6)         6 Pg.No.31           Sub Total         207.2           Add 10% For area weightage (Mangalore City)         207.2           Rate         2279.20 Sqm           Second Floor         2066           Lift Charges (2 x Rs.6)         12 Pg.No.31           Sub Total         2078           Add 10% For area weightage (Mangalore City)         207.8           Third Floor         Rate         2285.80 Sqm           Third Floor         Basic rate         2066					
with 600x200x230mm size Blocks         (KPWD 18-19,SI.No.6.32.4,Pg.No.31)         Ground Floor         Basic rate       2066         Add 10% For area weightage (Mangalore City)       Rate       206600         First Floor         Basic rate       2066         Lift Charges (1 x Rs.6)       6 Pg.No.31         Sub Total       207.2         Add 10% For area weightage (Mangalore City)       207.2         Basic rate       2066         Lift Charges (2 x Rs.6)       12 Pg.No.31         Sub Total       2078         Add 10% For area weightage (Mangalore City)       207.8         Rate       2285.80         Third Floor         Basic rate       2066	50			,	9
(KPWD 18-19,SI.No.6.32.4,Pg.No.31)         Ground Floor         Basic rate       2066         Add 10% For area weightage (Mangalore City)       206.6         Rate       2066.00         Basic rate       2066         Lift Charges (1 x Rs.6)       6 Pg.No.31         Sub Total       207.2         Add 10% For area weightage (Mangalore City)       207.2         Rate       2279.20         Second Floor       2066         Lift Charges (2 x Rs.6)       12 Pg.No.31         Sub Total       207.8         Add 10% For area weightage (Mangalore City)       207.8         Rate       2285.80         Third Floor       Basic rate       2066					
Basic rate   2066     Add 10% For area weightage (Mangalore City)   206.6     Rate   2066.00   Sqm     First Floor   2066     Basic rate   2066     Lift Charges (1 x Rs.6)   6 Pg.No.31     Sub Total   2072     Add 10% For area weightage (Mangalore City)   207.2     Second Floor   2066     Lift Charges (2 x Rs.6)   12 Pg.No.31     Sub Total   2078     Add 10% For area weightage (Mangalore City)   207.8     Add 10% For area weightage (Mangalore City)   207.8     Add 10% For area weightage (Mangalore City)   207.8     Rate   2285.80   Sqm     Third Floor   Basic rate   2066					
Basic rate       2066         Add 10% For area weightage (Mangalore City)       206.6         Rate       2066.00         Sqm         First Floor       2066         Basic rate       2066         Lift Charges (1 x Rs.6)       6 Pg.No.31         Sub Total       2072         Add 10% For area weightage (Mangalore City)       207.2         Rate       2279.20 Sqm         Second Floor       2066         Lift Charges (2 x Rs.6)       12 Pg.No.31         Sub Total       2078         Add 10% For area weightage (Mangalore City)       207.8         Rate       2285.80 Sqm         Third Floor       8asic rate       2066		, , , ,			
Add 10% For area weightage (Mangalore City)       206.6         Rate       2066.00         Sqm         First Floor       2066         Basic rate       2066         Lift Charges (1 x Rs.6)       6 Pg.No.31         Sub Total       2072         Add 10% For area weightage (Mangalore City)       207.2         Rate       2279.20 Sqm         Second Floor       2066         Lift Charges (2 x Rs.6)       12 Pg.No.31         Sub Total       2078         Add 10% For area weightage (Mangalore City)       207.8         Rate       2285.80 Sqm         Third Floor       Basic rate       2066					
Rate   2066.00   Sqm		Basic rate			
First Floor         2066           Basic rate         2066           Lift Charges (1 x Rs.6)         6 Pg.No.31           Sub Total         2072           Add 10% For area weightage (Mangalore City)         207.2           Rate         2279.20 Sqm           Second Floor         2066           Lift Charges (2 x Rs.6)         12 Pg.No.31           Sub Total         2078           Add 10% For area weightage (Mangalore City)         207.8           Rate         2285.80 Sqm           Third Floor         2066           Basic rate         2066		Add 10% For area weightage (Mangalore City)			
Basic rate   2066     Lift Charges (1 x Rs.6)   6 Pg.No.31     Sub Total   2072     Add 10% For area weightage (Mangalore City)   207.2     Rate   2279.20   Sqm     Second Floor   2066     Lift Charges (2 x Rs.6)   12 Pg.No.31     Sub Total   2078     Add 10% For area weightage (Mangalore City)   207.8     Rate   2285.80   Sqm     Third Floor   2066			Rate	2066.00	Sqm
Lift Charges (1 x Rs.6)       6       Pg.No.31         Sub Total       2072         Add 10% For area weightage (Mangalore City)       207.2         Rate       2279.20       Sqm         Second Floor       2066         Basic rate       2066       207.8         Lift Charges (2 x Rs.6)       12       Pg.No.31         Sub Total       207.8       207.8         Add 10% For area weightage (Mangalore City)       Rate       2285.80       Sqm         Third Floor       Basic rate       2066					
Sub Total       2072         Add 10% For area weightage (Mangalore City)       207.2         Rate       2279.20 Sqm         Second Floor       2066         Basic rate       2066         Lift Charges (2 x Rs.6)       12 Pg.No.31         Sub Total       2078         Add 10% For area weightage (Mangalore City)       207.8         Rate       2285.80 Sqm         Third Floor       2066         Basic rate       2066				2066	
Sub Total       2072         Add 10% For area weightage (Mangalore City)       207.2         Rate       2279.20 Sqm         Second Floor       2066         Basic rate       2066         Lift Charges (2 x Rs.6)       12 Pg.No.31         Sub Total       2078         Add 10% For area weightage (Mangalore City)       207.8         Rate       2285.80 Sqm         Third Floor       2066         Basic rate       2066				6	Pg.No.31
Second Floor         Rate         2279.20 Sqm           Basic rate         2066           Lift Charges (2 x Rs.6)         12 Pg.No.31           Sub Total         2078           Add 10% For area weightage (Mangalore City)         207.8           Rate         2285.80 Sqm           Third Floor         2066		Sub Total		2072	
Second Floor         Rate         2279.20 Sqm           Basic rate         2066           Lift Charges (2 x Rs.6)         12 Pg.No.31           Sub Total         2078           Add 10% For area weightage (Mangalore City)         207.8           Rate         2285.80 Sqm           Third Floor         2066		Add 10% For area weightage (Mangalore City)		207.2	
Basic rate       2066         Lift Charges (2 x Rs.6)       12 Pg.No.31         Sub Total       2078         Add 10% For area weightage (Mangalore City)       207.8         Rate       2285.80 Sqm         Third Floor       2066         Basic rate       2066			Rate	2279.20	Sqm
Basic rate       2066         Lift Charges (2 x Rs.6)       12 Pg.No.31         Sub Total       2078         Add 10% For area weightage (Mangalore City)       207.8         Rate       2285.80 Sqm         Third Floor       2066         Basic rate       2066		Second Floor			
Lift Charges (2 x Rs.6)       12 Pg.No.31         Sub Total       2078         Add 10% For area weightage (Mangalore City)       207.8         Rate       2285.80 Sqm         Third Floor       2066				2066	
Sub Total         2078           Add 10% For area weightage (Mangalore City)         207.8           Rate         2285.80 Sqm           Third Floor         2066		Lift Charges (2 x Rs.6)			Pg.No.31
Add 10% For area weightage (Mangalore City)         207.8           Rate         2285.80         Sqm           Third Floor         2066					
Rate 2285.80 Sqm Third Floor Basic rate 2066					
Third Floor Basic rate 2066		3 3 ( 3.1.1.1.9)	Rate		
Basic rate 2066		Third Floor			-
				2066	

	Sub Total		2084	
	Add 10% For area weightage (Mangalore City)		208.4	
		Rate	2292.40	Sqm
51	KSRB15-3: Providing 15mm thick cement plaster in single including rounding off corners wherever required smooth reincluding cost of materials, labour, curing complete as per do-cement mortar 1:4 (KPWD 18-19,SI.No.15.13,Pg.No.115)	endering, Providing		
	Ground Floor			<u> </u>
	Basic rate		222	
			22.2	
	Add 10% For area weightage (Mangalore City)	Data	244.20	Carro
	First Flags	Rate	244.20	Sqiii
	First Floor Basic rate		200	
			222	D :: N = 400
	Lift Charges (1 x Rs.6)		6	Pg.No.128
	Sub Total		228	
	Add 10% For area weightage (Mangalore City)		22.8	
		Rate	250.80	Sqm
	Second Floor			
	Basic rate		222	
	Lift Charges (2 x Rs.6)		12	Pg.No.128
	Sub Total		234	
	Add 10% For area weightage (Mangalore City)		23.4	
		Rate	257.40	Sqm
	Third Floor			
	Basic rate		222	
	1.17. 01 (0. 5. 0)			
	Lift Charges (3 x Rs.6)		18	Pg.No.128
	Lift Charges (3 x Rs.6)  Sub Total		18 <b>240</b>	Pg.No.128
	Sub Total		240	
		Rate	<b>240</b> 24	
	Sub Total Add 10% For area weightage (Mangalore City)		240 24 264.00	Sqm
52	Sub Total  Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm thic masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)	ck in single coat with d quality, providing a	240 24 264.00 cement morta	Sqm ar to brick
52	Sub Total  Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm thic masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor	ck in single coat with d quality, providing a	240 24 264.00 cement mortand removing s	Sqm ar to brick scaffolding,
52	Sub Total  Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm thic masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor  Basic rate	ck in single coat with d quality, providing a	240 24 264.00 cement mortand removing s	Sqm ar to brick scaffolding,
52	Sub Total  Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm thic masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor	ck in single coat with d quality, providing a specifications.	240 24 264.00 cement mortand removing s 194 19.4	Sqm ar to brick scaffolding,
52	Sub Total  Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm thic masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)	ck in single coat with d quality, providing a	240 24 264.00 cement mortand removing s	Sqm ar to brick scaffolding,
52	Sub Total  Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm this masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor	ck in single coat with d quality, providing a specifications.	240 24 264.00 cement mortand removing s 194 19.4	Sqm ar to brick scaffolding,
52	Sub Total  Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm thic masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate	ck in single coat with d quality, providing a specifications.	240 24 264.00 cement mortand removing s 194 19.4	Sqm  ar to brick scaffolding,  Sqm
52	Sub Total  Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm this masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor	ck in single coat with d quality, providing a specifications.	240 24 264.00 cement mortand removing s 194 19.4 213.40	Sqm  ar to brick scaffolding,  Sqm
52	Sub Total  Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm thic masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate	ck in single coat with d quality, providing a specifications.	240 24 264.00 cement mortand removing s 194 19.4 213.40	Sqm  ar to brick scaffolding,  Sqm
52	Sub Total  Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm thic masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges	ck in single coat with d quality, providing a specifications.	240 24 264.00 cement mortand removing s 194 19.4 213.40	Sqm  ar to brick scaffolding,  Sqm
52	Sub Total  Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm this masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges  Sub Total	ck in single coat with d quality, providing a specifications.	240 24 264.00  cement mortand removing s  194 19.4 213.40 194 6 200 20	Sqm  ar to brick scaffolding,  Sqm  Pg.No.128
52	Sub Total  Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm this masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges  Sub Total	ck in single coat with d quality, providing a specifications.	240 24 264.00 cement mortand removing s 194 19.4 213.40 6 200	Sqm  ar to brick scaffolding,  Sqm  Pg.No.128
52	Sub Total Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm thic masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor  Basic rate Add 10% For area weightage (Mangalore City)  First Floor  Basic rate Lift Charges  Sub Total  Add 10% For area weightage (Mangalore City)	ck in single coat with d quality, providing a specifications.	240 24 264.00  cement mortand removing s  194 19.4 213.40 194 6 200 20	Sqm  ar to brick scaffolding,  Sqm  Pg.No.128
52	Sub Total  Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm thic masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges  Sub Total  Add 10% For area weightage (Mangalore City)	ck in single coat with d quality, providing a specifications.	240 24 264.00  cement mortand removing s  194 19.4 213.40  194 6 200 220.00	Sqm  ar to brick scaffolding,  Sqm  Pg.No.128
52	Sub Total  Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm thic masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges  Sub Total  Add 10% For area weightage (Mangalore City)	ck in single coat with d quality, providing a specifications.	240 24 264.00  cement mortand removing s  194 19.4 213.40 290 200 220.00	Sqm  ar to brick scaffolding,  Sqm  Pg.No.128  Sqm
52	Sub Total Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm thic masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges Sub Total Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges	ck in single coat with d quality, providing a specifications.	240 24 264.00  cement mortand removing s  194 19.4 213.40  20 220.00  194 12	Sqm  ar to brick scaffolding,  Sqm  Pg.No.128  Pg.No.128
52	Sub Total Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm thic masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,Sl.No.15.31,Pg.No.117)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges Sub Total Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges Sub Total Add 10% For area weightage (Mangalore City)	ck in single coat with d quality, providing a specifications.	240 24 264.00  cement mortand removing s  194 19.4 213.40 200 220.00  194 12 206	Sqm  ar to brick scaffolding,  Sqm  Pg.No.128  Sqm  Pg.No.128
52	Sub Total Add 10% For area weightage (Mangalore City)  KSRB15-5: Providing rough cement plastering 15mm thic masonry for base of dadooing works with sand of approve including cost of materials, labour, curing complete as per do - cement mortar 1:6 (KPWD 18-19,SI.No.15.31,Pg.No.117)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges Sub Total Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges	ck in single coat with d quality, providing a specifications.	240 24 264.00  cement mortand removing s  194 19.4 213.40  20 220.00  194 12	Sqm  ar to brick scaffolding,  Sqm  Pg.No.128  Sqm  Pg.No.128

	Providing applying two coats of wall putty to inside plaster	ed walls and ceiling	usina white ce	ement putty.
	Scrapping and levelling the surface using steel blade and		•	•
	different grade sand papers, including cost of all materials			
53	per the specification.	, oost of labour aria o	odifolding of	., complete as
	(KPWD 18-19,SI.No.15.106,Pg.No.128)			
				T
	Ground Floor			
	Basic rate		78	
	Add 10% For area weightage (Mangalore City)		7.8	
		Rate	85.80	Sqm
	First Floor			
	Basic rate		78	
	Lift Charges (1 x Rs.6)		6	
	Add 10% For area weightage (Mangalore City)		8.4	
	Add 10761 of area weightage (Mangalore Oity)	Rate	92.40	Sam
		11415	V=11-	Joqiii
	Second Floor			
	Basic rate		78	
	Lift Charges (2 x Rs.6)		12	
	Add 10% For area weightage (Mangalore City)		9	
		Rate	99.00	Sqm
	Third Floor			
	Basic rate		78	
	Lift Charges ( 2 x Rs.6)		18	
	Add 10% For area weightage (Mangalore City)		9.6	
		Rate	105.60	Sqm
54	KSRB15-3: Providing 12mm thick cement plaster in si rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifical	ngle coat with cemen including providing a	t mortar, to ce	
54	rounding off corners wherever required smooth rendering,	ngle coat with cemen including providing a	t mortar, to ce	
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4	ngle coat with cemen including providing a	t mortar, to ce	
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)	ngle coat with cemen including providing a	t mortar, to ce	
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor	ngle coat with cemen including providing a	t mortar, to ce	scaffolding, cos
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor Basic rate	ngle coat with cemen including providing a	t mortar, to ce and removing 226	scaffolding, cos
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)	ngle coat with cemen including providing a tion.	t mortar, to ce and removing 226 22.6	scaffolding, cos
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor	ngle coat with cemen including providing a tion.	t mortar, to ce and removing 226 22.6 248.60	scaffolding, cos
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate	ngle coat with cemen including providing a tion.	t mortar, to ce and removing 226 22.6 248.60	scaffolding, cos
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges ( 1 x Rs.6)	ngle coat with cemen including providing a tion.	226 226 226 6	scaffolding, cos
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate	ngle coat with cemen including providing a tion.	226 22.6 248.60 23.2	scaffolding, cos
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges ( 1 x Rs.6)	ngle coat with cemen including providing a tion.	226 226 226 6	scaffolding, cos
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges ( 1 x Rs.6)	ngle coat with cemen including providing a tion.	226 22.6 248.60 23.2	scaffolding, cos
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges (1 x Rs.6) Add 10% For area weightage (Mangalore City)	ngle coat with cemen including providing a tion.	226 22.6 248.60 23.2	scaffolding, cos
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.6)  Add 10% For area weightage (Mangalore City)  Second Floor	ngle coat with cemen including providing a tion.	226 22.6 248.60 23.2 255.20	scaffolding, cos
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges ( 1 x Rs.6)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate	ngle coat with cemen including providing a tion.	226 22.6 248.60 23.2 255.20	Sqm Sqm
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges ( 1 x Rs.6) Add 10% For area weightage (Mangalore City)  Second Floor Basic rate Lift Charges ( 2 x Rs.6)	ngle coat with cemen including providing a tion.	226 228 248.60 23.2 255.20	scaffolding, cos  Sqm  Sqm
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifical do-cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.6)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.6)  Add 10% For area weightage (Mangalore City)	ngle coat with cemen including providing a tion.  Rate  Rate  Rate	226 22.6 248.60 23.2 255.20 226 12 23.8 261.80	Sqm Sqm
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifical do-cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.6)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.6)  Add 10% For area weightage (Mangalore City)  KSRB15-3: Providing 18mm thick cement plaster in single	ngle coat with cemen including providing a tion.  Rate  Rate  Rate  Rate	226 22.6 248.60 23.2 255.20 261.80	Sqm Sqm masonry
	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges ( 1 x Rs.6)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges ( 2 x Rs.6)  Add 10% For area weightage (Mangalore City)  KSRB15-3: Providing 18mm thick cement plaster in singlincluding rounding off corners wherever required smooth	Rate	226 22.6 248.60 23.2 255.20 261.80	Sqm Sqm sqm
54	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges ( 1 x Rs.6)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges ( 2 x Rs.6)  Add 10% For area weightage (Mangalore City)  KSRB15-3: Providing 18mm thick cement plaster in singlincluding rounding off corners wherever required smooth including cost of materials, labour, curing complete as per	Rate	226 22.6 248.60 23.2 255.20 261.80	Sqm Sqm masonry
	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifica do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges ( 1 x Rs.6) Add 10% For area weightage (Mangalore City)  Second Floor Basic rate Lift Charges ( 2 x Rs.6) Add 10% For area weightage (Mangalore City)  KSRB15-3: Providing 18mm thick cement plaster in singlincluding rounding off corners wherever required smooth including cost of materials, labour, curing complete as per do - cement mortar 1:4	Rate	226 22.6 248.60 23.2 255.20 261.80	Sqm Sqm masonry
	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifical do-cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.6)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.6)  Add 10% For area weightage (Mangalore City)  KSRB15-3: Providing 18mm thick cement plaster in singlincluding rounding off corners wherever required smooth including cost of materials, labour, curing complete as per do - cement mortar 1:4 (KPWD 18-19,SI.No.15.16,Pg.No.116)	Rate	226 22.6 248.60 2255.20 226 23.2 255.20 226 12 23.8 261.80 29 and removing	Sqm Sqm masonry
	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifical do- cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.6)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.6)  Add 10% For area weightage (Mangalore City)  KSRB15-3: Providing 18mm thick cement plaster in singlincluding rounding off corners wherever required smooth including cost of materials, labour, curing complete as per do - cement mortar 1:4 (KPWD 18-19,SI.No.15.16,Pg.No.116)  Basic rate	Rate	226 22.6 248.60 248.60 255.20 255.20 226 12 23.8 261.80 3 ortar to brick ag and removing	Sqm Sqm Sqm masonry
	rounding off corners wherever required smooth rendering, of materials, labour, curing etc., complete as per specifical do-cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg.No.116)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.6)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.6)  Add 10% For area weightage (Mangalore City)  KSRB15-3: Providing 18mm thick cement plaster in singlincluding rounding off corners wherever required smooth including cost of materials, labour, curing complete as per do - cement mortar 1:4 (KPWD 18-19,SI.No.15.16,Pg.No.116)	Rate	226 22.6 248.60 2255.20 226 23.2 255.20 226 12 23.8 261.80 29 and removing	Sqm Sqm scaffolding, cos

	Providing and fixing Vitrified glazed tiles of approved make	a quality & colour of	T CI76 HIII V HI	
	fixed on bed of 12mm thick cement mortar for flooring, ski			
56	pigment to mach shade of tiles, including providing space	•		•
30	including cost of all mateirals, mortar, labour, etc , Comple			g =1ae,
	(KPWD 18-19,SI.No.14.45,Pg.No.109)			
	Ground Floor			
	Basic rate		1128.00	
	Add 10% For area weightage (Mangalore City)		1128.00	
	Add 10% for area weightage (Mangalore City)	Rate	1240.80	
		Nate	12-10.00	Oqiii
	First Floor			
	Basic rate		1128.00	
	Lift Charges (1 x Rs.2)		2	
	Add 10% For area weightage (Mangalore City)		113	
	3 3 \ 3 7/	Rate	1243.00	Sqm
				•
	Second Floor			
	Basic rate		1128.00	
	Lift Charges (2 x Rs.2)		4	
	Add 10% For area weightage (Mangalore City)		113.2	
		Rate	1245.20	Sqm
	Third Floor			
	Basic rate		1128.00	
	Lift Charges ( 3 x Rs.2 )		6	
	Add 10% For area weightage (Mangalore City)		113.4	
				A
57	KSRB 14.14-5: Providing Ceramic tiles of approved make landings laid on a bed of 12mm thick, cement mortar 1 3 pigment, including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms. 6mm thick	mix, flush pointing wi	th white ceme	ds of steps and
57	landings laid on a bed of 12mm thick, cement mortar 1 3	e, shade and size for mix, flush pointing wi	flooring, tread th white ceme	ds of steps and
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment, including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick	e, shade and size for mix, flush pointing wi	flooring, tread th white ceme	ds of steps and
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment, including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)	e, shade and size for mix, flush pointing wi	flooring, tread th white ceme ions.	ds of steps and ent using colour
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment, including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor	e, shade and size for mix, flush pointing wi lete as per specificati	flooring, tread th white ceme ions. 1211.00 121.1	ds of steps and ent using colour
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment, including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate	e, shade and size for mix, flush pointing wi	flooring, tread th white ceme ions.	ds of steps and ent using colour
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)	e, shade and size for mix, flush pointing wi lete as per specificati	flooring, tread th white ceme ions. 1211.00 121.1	ds of steps and ent using colour
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment, including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor	e, shade and size for mix, flush pointing wi lete as per specificati	flooring, tread th white ceme ions.  1211.00 121.1 1332.10	ds of steps and ent using colour
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate	e, shade and size for mix, flush pointing wi lete as per specificati	flooring, tread th white ceme ions. 1211.00 121.1	ds of steps and ent using colour
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,Sl.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges ( 1 x Rs.2 )	e, shade and size for mix, flush pointing wi lete as per specificati	flooring, tread th white ceme ions.  1211.00 121.1 1332.10  1211.00 2	ds of steps and ent using colour
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate	e, shade and size for mix, flush pointing wi lete as per specification.	flooring, tread th white ceme ions.  1211.00 121.1 1332.10  1211.00 2 1213	ds of steps and ent using colour
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,Sl.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges ( 1 x Rs.2 )	e, shade and size for mix, flush pointing wi lete as per specificati	flooring, tread th white ceme ions.  1211.00 121.1 1332.10  1211.00 2	ds of steps and ent using colour
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)	e, shade and size for mix, flush pointing wi lete as per specification.	flooring, tread th white ceme ions.  1211.00 121.1 1332.10  1211.00 2 1213	ds of steps and ent using colour
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,Sl.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges ( 1 x Rs.2 )  Add 10% For area weightage (Mangalore City)	e, shade and size for mix, flush pointing wi lete as per specification.	1211.00 1211.00 121.1 1332.10 2 121.3 1334.30	sqm
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate	e, shade and size for mix, flush pointing wi lete as per specification.	flooring, tread th white ceme ions.  1211.00 121.1 1332.10  1211.00 2 1213	sqm
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges ( 1 x Rs.2 )  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges ( 2 x Rs.2 )	e, shade and size for mix, flush pointing wi lete as per specification.	flooring, tread th white ceme ions.  1211.00 121.1 1332.10  1211.00 2 121.3 1334.30	sqm
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate	e, shade and size for mix, flush pointing wi lete as per specification.	1211.00 1211.00 121.3 1334.30 1211.00 4 121.5	sqm
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges ( 1 x Rs.2 )  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges ( 2 x Rs.2 )	Rate	flooring, tread th white ceme ions.  1211.00 121.1 1332.10  1211.00 2 121.3 1334.30	sqm
57	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges ( 1 x Rs.2 )  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges ( 2 x Rs.2 )	Rate  Rate  Rate  Rate  Rate  Rate  Rate	1211.00 1211.00 1211.3 1211.00 121.3 1211.00 4 121.5 1336.50 slabs 40mm ting cement of	sqm Sqm hick on cement
	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.2)  Add 10% For area weightage (Mangalore City)  KSRB 14.3 Providing and laying flooring and steps mortar bed 1:6, 25 mm thick, and pointed with cement rincluding cost of materials, mortar, labour, curing completed including cost of materials, mortar, labour, curing co	Rate  Rate  Rate  Rate  Rate  Rate  Rate	1211.00 1211.00 1211.3 1211.00 121.3 1211.00 4 121.5 1336.50 slabs 40mm ting cement of	sqm Sqm hick on cement
	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges ( 1 x Rs.2 )  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges ( 2 x Rs.2 )  Add 10% For area weightage (Mangalore City)  KSRB 14.3 Providing and laying flooring and steps mortar bed 1:6, 25 mm thick, and pointed with cement r including cost of materials, mortar, labour, curing complet Specification No. KBS 14.26	Rate  Rate  Rate  Rate  Rate  Rate  Rate	1211.00 1211.00 1211.3 1211.00 121.3 1211.00 4 121.5 1336.50 slabs 40mm ting cement of	sqm Sqm hick on cement
	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.2)  Add 10% For area weightage (Mangalore City)  KSRB 14.3 Providing and laying flooring and steps mortar bed 1:6, 25 mm thick, and pointed with cement r including cost of materials, mortar, labour, curing complet Specification No. KBS 14.26  Second Floor  Basic rate  Lift Charges (2 x Rs.2)	Rate  Rate  Rate  Rate  Rate  Rate  Rate	1211.00 1211.00 1211.3 1211.00 1211.3 1334.30 1211.5 1336.50 slabs 40mm to thing cement on s.	Sqm Sqm hick on cement concrete bed,
	landings laid on a bed of 12mm thick, cement mortar 1 3 pigment , including cost of materials, labour, curing, comp for Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,SI.No.14.36.2,Pg.No.108)  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.2)  Add 10% For area weightage (Mangalore City)  KSRB 14.3 Providing and laying flooring and steps mortar bed 1:6, 25 mm thick, and pointed with cement r including cost of materials, mortar, labour, curing complet Specification No. KBS 14.26  Second Floor  Basic rate	Rate  Rate  Rate  Rate  Rate  Rate  Rate	1211.00 1211.00 121.1 1332.10  1211.00 2 1213 1334.30  1211.00 4 121.5 1336.50  slabs 40mm ting cement ons.	Sqm Sqm hick on cement concrete bed,

	Providing and fixing colour glazed tiles of size 300mmx6	00mm for walls w	vith borders of	SIZE
	300x100mm, set in Cement Mortar 1:3 and pointed with white			
	necessary curing, cleaning including providing and removing			
59	The work includes cost of all materials, mortar, labour charge			
	equipment etc., complete as per specification.	53 TOT All ILETTIS OF	WOIK, THE CH	arges for
	(KPWD 18-19,SI.No.14.64,Pg.No.112)			
	Ground Floor			
	Basic rate		1213	
	Add 10% For area weightage (Mangalore City)		121.3	
	January,	Rate	1334.30	Sam
		11000	100 1100	
	First Floor			
	Basic rate		1213	
	Lift Charges (1 x Rs.2)		2	
	Add 10% For area weightage (Mangalore City)		121.5	
	Add 10 % For area weightage (Mangalore City)	Rate	1336.50	Cam
		Rate	1330.30	Sqiii
	Cocond Floor			
	Second Floor	1 1	1010	
	Basic rate		1213	
	Lift Charges (2 x Rs.2)		4	
	Add 10% For area weightage (Mangalore City)		121.7	
		Rate	1338.70	Sqm
60	Providing and Fixing Laterite Stone Cladding 25mm thk (poli- palster surface with two coat of polish,including all lead and I			
00	, , , , , , , , , , , , , , , , , , , ,		•	
	· · ·			
	Basic Rate		2500.75	
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer	Rate saw water cut grant mortar using wh	2500.75 2500.75 anite in CM 1:3	Sqm 3 proportion cu
61	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification.	Rate saw water cut grant mortar using who with sealant, makals, mortar, labour	2500.75 2500.75 anite in CM 1:3 hite cement and king holes	Sqm 3 proportion cu d colour
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all material specification.  do- with grey granite 20mm thick gang saw with minimum with the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all material specification.	Rate saw water cut grant mortar using who with sealant, makals, mortar, labour	2500.75 2500.75 anite in CM 1:3 hite cement and king holes	Sqm 3 proportion cu d colour
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification. do- with grey granite 20mm thick gang saw with minimum wielesses.	Rate saw water cut grant mortar using who with sealant, makals, mortar, labour	2500.75 2500.75 anite in CM 1:3 hite cement and king holes r, curing etc., c	Sqm 3 proportion cu d colour
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all material specification.  do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate	Rate saw water cut grant mortar using who with sealant, makals, mortar, labour	2500.75 2500.75 anite in CM 1:3 inte cement and king holes r, curing etc., c	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification. do- with grey granite 20mm thick gang saw with minimum wielesses.	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labour dth 1200 mm	2500.75 2500.75 2500.75 anite in CM 1:3 ite cement and king holes r, curing etc., c	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all material specification.  do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate	Rate saw water cut grant mortar using who with sealant, makals, mortar, labour	2500.75 2500.75 anite in CM 1:3 inte cement and king holes r, curing etc., c	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all material specification.  do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labour dth 1200 mm	2500.75 2500.75 2500.75 anite in CM 1:3 ite cement and king holes r, curing etc., c	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all material specification.  do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labour dth 1200 mm	2500.75 2500.75 2500.75 anite in CM 1:3 iite cement and king holes r, curing etc., c	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all material specification.  do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labour dth 1200 mm	2500.75 2500.75 2500.75 anite in CM 1:3 ite cement and king holes r, curing etc., c	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all material specification.  do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labour dth 1200 mm	2500.75 2500.75 2500.75 anite in CM 1:3 iite cement and king holes r, curing etc., c	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification. do- with grey granite 20mm thick gang saw with minimum wield Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labour dth 1200 mm	2500.75 2500.75 2500.75  anite in CM 1:3 hite cement and king holes r, curing etc., c  2448 244.8 2692.80  2448	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all material specification.  do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labout dth 1200 mm  Rate	2500.75 2500.75 2500.75 2500.75  anite in CM 1:3 iite cement and king holes r, curing etc., c  2448 244.8 2692.80  2448 2 244.8	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification. do- with grey granite 20mm thick gang saw with minimum wield Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labour dth 1200 mm	2500.75 2500.75 2500.75  anite in CM 1:3 hite cement and king holes r, curing etc., c  2448 244.8 2692.80  2448	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all material specification.  do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labout dth 1200 mm  Rate	2500.75 2500.75 2500.75 2500.75  anite in CM 1:3 iite cement and king holes r, curing etc., c  2448 244.8 2692.80  2448 2 244.8	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification.  do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labout dth 1200 mm  Rate	2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2694.80 2694.80	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification.  do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labout dth 1200 mm  Rate	2500.75 2500.75 2500.75 2500.75  anite in CM 1:3 iite cement and king holes r, curing etc., c  2448 244.8 2692.80  2448 2 244.8	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification.  do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.2)	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labout dth 1200 mm  Rate	2500.75 2500.75 2500.75 2500.75  anite in CM 1:3 iite cement and king holes r, curing etc., c  2448 244.8 2692.80  2448 244.8 2694.80  2448 4	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification.  do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labout dth 1200 mm  Rate  Rate	2500.75 2500.75 2500.75 2500.75  anite in CM 1:3 hite cement and king holes r, curing etc., c  2448 244.8 2692.80  2448 244.8 2694.80  2448 4 244.8	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification.  do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.2)	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labout dth 1200 mm  Rate	2500.75 2500.75 2500.75 2500.75  anite in CM 1:3 iite cement and king holes r, curing etc., c  2448 244.8 2692.80  2448 244.8 2694.80  2448 4	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification.  do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.2)  Add 10% For area weightage (Mangalore City)	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labout dth 1200 mm  Rate  Rate	2500.75 2500.75 2500.75 2500.75  anite in CM 1:3 hite cement and king holes r, curing etc., c  2448 244.8 2692.80  2448 244.8 2694.80  2448 4 244.8	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification. do- with grey granite 20mm thick gang saw with minimum with Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.2)  Add 10% For area weightage (Mangalore City)	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labout dth 1200 mm  Rate  Rate	2500.75 2500.75 2500.75 2500.75  anite in CM 1:3 iite cement and king holes r, curing etc., c  2448 244.8 2692.80  2448 244.8 2694.80  2448 4 244.8 2696.80	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification. do- with grey granite 20mm thick gang saw with minimum wide.  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.2)  Add 10% For area weightage (Mangalore City)  Third Floor  Basic rate	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labout dth 1200 mm  Rate  Rate	2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2600.80	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification. do- with grey granite 20mm thick gang saw with minimum wide Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.2)  Add 10% For area weightage (Mangalore City)  Third Floor  Basic rate  Lift Charges (3 x Rs.2)	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labout dth 1200 mm  Rate  Rate	2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2600.7	Sqm  B proportion cu d colour  complete as pe
	Basic Rate  Total Rate  Providing and fixing of wall cladding using 20 mm thick gang to required shape patron with paper joint finished with cemer pigments to match the colour of slab making through jointing 25mm x 12mm grooves in JOints including cost of all materia specification. do- with grey granite 20mm thick gang saw with minimum wide.  Ground Floor  Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs.2)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs.2)  Add 10% For area weightage (Mangalore City)  Third Floor  Basic rate	Rate  saw water cut grant mortar using who with sealant, makals, mortar, labout dth 1200 mm  Rate  Rate	2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2500.75 2600.80	Sqm  B proportion cu d colour  complete as pe  Sqm  Sqm

62	Providing and laying platform using prepolished, water cut I gang a Granite. laid on existing vertical -supports and fixing in CM 1:3 proshape, pattern with paper joints, including full rounding for not pointed with colour pigments to match the colour of slab making	oportion. sing, finis	Including cutting hed with cemer	to required nt mortar,
02	holes 25mm x 12mm grooves in JOints including cost of all materia			
	per specification. (KPWD 18-19,SI.No.14.52,Pg.No.110)			
	Ground Floor			
	Basic rate		3525	
	Add 10% For area weightage (Mangalore City)		352.5	
		Rate	3877.50	Sqm
	First Floor			
	Basic rate		3525	
	Lift Charges (1 x Rs.2)		2	
	Add 10% For area weightage (Mangalore City)		352.5	
	, , , , , , , , , , , , , , , , , , , ,	Rate	3879.50	Sqm
	Second Floor	Т		1
	Basic rate		3525	
	Lift Charges (2 x Rs.2)		4	
	Add 10% For area weightage (Mangalore City)	Doto	352.5	
		Rate	3881.50	Sqm
63	KSRB 15-15.1 • Providing and applying painting in two coats brand on wall surface to give an even approved shade after thorou drops and other foreign matter including preparing the surface even materials, labour, complete as per specifications.do- with primer (KPWD 18-19,SI.No.15.51.2,Pg No.119)	ghly brus	shing the surface	, free from mortar
	Basic rate		90	
	Add 10% For area weightage (Mangalore City)		9	
		Rate	99.00	Sqm
64	Providing external walls with texture finish using approved brand pone coat of primer including cost of all materials, machineries, lab all lead and lift and all other incidental charges including scaffoldin specifications.  (KPWD 18-19,SI.No.15.103,Pg No.127)	our, trans	sportation, loadir noving stains, co	ng and unloading, mplete as per
	Basic rate		340	
	Add 10% For area weightage (Mangalore City)	Poto	34	
		Rate	374.00	Sqm
65	KSRB 10-3 :Providing and laying integral cement based waterprod surface as required for treatment of roofs, balconies, terraces e Applying and grouting a slurry coat of neat cement using 2.75 kgls water proofing compound conforming to 18:2645 over the RCC slattreatment. (b) Laying cement concrete using broken brick bats 25n mortar 1:5 admixed with proprietary water proofing compound conforment mortar 1:5 admixed with proprietary water proofing compound the adjoining walls upto 300mm height including rounding off junct of proper curing, applying a second coat of cement lurry admixed w(d) Finishing the surface with 20mm thick joint less cement mortar proofing compound and finally finishing the surface with trowel and 300x300mm square. (e) The whole terrace so finished shall be flot two weeks for curing and for final test including cost of materials, la (KPWD 18-19,Sl.No.10.2,Pg.No.68)	tc, cons qm of cer ab after cl om to 1O forming 1 und to rec tions of w with propr of mix 1:4 d neat cer oded with	isting of following ment admixed with eaning the surface Omm size with 5 8:2645 over 20 may all and slabs. (Fietary water process and slabs) and slabs with process and slabs an	g application. (a) th proprietary ce before 0% of cement me thick layer of treating similarly c) After two days ofing compound roprietary water making of mum period of
	Basic rate Add 10% For area weightage (Mangalore City)		1011 101.1	

		Rate	1112.10	Sgm
			2.10	- <b>1</b> ···
66	Waterproofing of RCC Terrace I podium slab I toilet I utilities I water surface by chipping and cleaning and Grouting of Honey comb, we cement slurry (1kg cement added in 10 ltr of water) added with 10 spraying of liquid biological modified alkaline earth silicates@ 040 micro porosity and allowing it to dry, curing the surface for the silicand spraying waterproofing impregnate liquid containing silane an sqm and finally applying polymer slurry made out of cross linked a ratio of 1:0.1, @ 0.50kglsqm on the whole surface, including all lab complete as per the specification (KPWD 18-19,Sl.No.10.5.1,Pg.No.69)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 9.4-1: Providing wood frames of doors, windows, clerestory	oids,crack Ogm of ir Itr per squates to ped silanollin crylic I sty	s I construction judgments accelerated on whole surface the surface of the surfac	oints with ator, followed by ace to reduce th nto the concret 0.50 ltr per & cement in th uipments, all
67	wrought, framed or assembled including making plaster groves (exclamps), but including cost of materials, labour, HOM complete as Specification No. KBS 9.33KSRB 9.4-3: -do - Mathi I Nandi wood (KPWD 18-19,SI.No.9.12,Pg.No.53)	s per spec		ncrete and side
	Basic rate		102143	
	Add 10% For area weightage (Mangalore City)		10214.3	
		Rate	112357.30	Cum
68	KSRB 9.5: Providing and fixing in position fully panelled wood shu 40mm. thick with bottom and lock rails 180mm wide top rail and st panels of 25mm thick including cost of materials, labour, HOM corcost of fixtures)  Specification No. KBS 9.34KSRB 9-6.3:do- MathiiNandi wood stylength.	yles 100 nplete as	mm wide as per per specification	drawing and s. (excluding
	(KPWD 18-19,SI.No.9.19,Pg.No.53)			`
	(KPWD 18-19,Sl.No.9.19,Pg.No.53)  Basic rate		5016	
			5016 501.6	
	Basic rate	Rate		
	Basic rate Add 10% For area weightage (Mangalore City)  First Floor		501.6 <b>5517.60</b>	
	Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate		501.6	
	Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges (1 x Rs. 4/Sqm)		501.6 <b>5517.60</b> 5016 4	
	Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate	Rate	501.6 <b>5517.60</b> 5016 4 502	Sqm
	Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges (1 x Rs. 4/Sqm) Add 10% For area weightage (Mangalore City)		501.6 <b>5517.60</b> 5016 4	Sqm
	Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges (1 x Rs. 4/Sqm) Add 10% For area weightage (Mangalore City)  Second Floor	Rate	501.6 <b>5517.60</b> 5016  4  502 <b>5522.00</b>	Sqm
	Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges (1 x Rs. 4/Sqm) Add 10% For area weightage (Mangalore City)  Second Floor Basic rate	Rate	501.6 <b>5517.60</b> 5016  4  502 <b>5522.00</b> 5016	Sqm
	Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges (1 x Rs. 4/Sqm) Add 10% For area weightage (Mangalore City)  Second Floor Basic rate Lift Charges (2 x Rs. 4/Sqm)	Rate	501.6 5517.60 5016 4 502 5522.00 5016 8	Sqm
	Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges (1 x Rs. 4/Sqm) Add 10% For area weightage (Mangalore City)  Second Floor Basic rate	Rate	501.6 5517.60 5016 4 502 5522.00 5016 8 502.4	Sqm
	Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges (1 x Rs. 4/Sqm) Add 10% For area weightage (Mangalore City)  Second Floor Basic rate Lift Charges (2 x Rs. 4/Sqm) Add 10% For area weightage (Mangalore City)	Rate	501.6 5517.60 5016 4 502 5522.00 5016 8	Sqm
	Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges (1 x Rs. 4/Sqm) Add 10% For area weightage (Mangalore City)  Second Floor Basic rate Lift Charges (2 x Rs. 4/Sqm) Add 10% For area weightage (Mangalore City)  Third Floor	Rate	501.6 5517.60 5016 4 502 5522.00 5016 8 502.4 5526.40	Sqm
	Basic rate  Add 10% For area weightage (Mangalore City)  First Floor  Basic rate  Lift Charges (1 x Rs. 4/Sqm)  Add 10% For area weightage (Mangalore City)  Second Floor  Basic rate  Lift Charges (2 x Rs. 4/Sqm)  Add 10% For area weightage (Mangalore City)  Third Floor  Basic rate	Rate	501.6 5517.60 5016 4 502 5522.00 5016 8 502.4 5526.40	Sqm
	Basic rate Add 10% For area weightage (Mangalore City)  First Floor Basic rate Lift Charges (1 x Rs. 4/Sqm) Add 10% For area weightage (Mangalore City)  Second Floor Basic rate Lift Charges (2 x Rs. 4/Sqm) Add 10% For area weightage (Mangalore City)  Third Floor	Rate	501.6 5517.60 5016 4 502 5522.00 5016 8 502.4 5526.40	Sqm Sqm

#### SOLID PANEL PRELAM PVC DOOR SHUTTER

69

70

71

Providing & fixing 30mm thick factory made rigid foam Prelam Panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for styles and 15x15mm for top & bottom rails, covered with heat moulded Prelaminated PVC C Channel of 5mm thick sheet & 30x50mm wide to form styles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S. frame, Sealed to the styles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm. Aluminium hinges.do- with both side prelam (KPWD 18-19,SI.No.9.85,Pg No.60 & 61)

	Rate	4129.40	Sqm
Add 10% For area weightage (Mangalore City)		375.4	
Lift Charges (2 x Rs. 4/Sqm)		8	
Basic rate		3746	
	1		
	Rate	4125.00	Sqm
Add 10% For area weightage (Mangalore City)		375	
Lift Charges (1 x Rs. 4/Sqm)		4	
Basic rate		3746	
	- Itali		<b>-</b>
That 10701 of area weightage (Mangalore Oity)	Rate	4120.60	
Add 10% For area weightage (Mangalore City)		374.6	
Basic rate		3746	

Providing and fixing pre fabricated non-monolithic R.C.C. Door Frames factory manufactured in separate parts and assembled at bolt nuts system with mechanical table vibrating as per IS 6523-1983 with using M25 concrete as per IS 456 with a cross section of 60 mm x 100 mm reinforced with 1.70 kg of TMT steel reinforced with 3 Nos. of 6 mm dia Main TMT bars and 6 mm Dia TMT stirrups welded at 40 em c/c in triangle shape per meter length of door frames, including cost of steel and fabrication charges having 3/4 No. Stainless Steel hinges plate attachment made of 165 mm x 25 mm x 2.5 mm Stainless Steel Flat welded with required iron rods and flats with drilling for fixing flat CSK Head Machine screws and nut made out of 304 grade stainless steel screws, nut and MS square nut of size 8 x 8 square and length 10 mm and making necessary provision in concrete for fixing aldrops, tower bolts and hold fasts etc., complete including two coats of oil based enamel primer providing without cill for shutter thickness upto 30 mm, 21 days tank immersed curing including cost of labour, materials, HOM etc., complete excluding the cost of door Fixtures as per the direction of Engineer

(KPWD 18-19,SI.No.9.98,Pg.No.63 & 64)

	Rate	988.90	Rmt
Add 10% For area weightage (Mangalore City)		89.9	
Lift Charges (2x Rs. 4/Sqm)		8	
Basic rate		891	
	<u> </u>		
	Rate	984.50	Rmt
Add 10% For area weightage (Mangalore City)		89.5	
Lift Charges (1 x Rs. 4/Sqm)		4	
Basic rate		891	
	Rate	980.10	Rmt
Add 10% For area weightage (Mangalore City)		89.1	
Basic rate		891	

Providing and fixing Single shutter glass door of 12mm thick plain toughened glass. The door is fixed by using any approved make hardware fitting like patch fitting, pivot, floor machine, locking arrangements and suitable SS door rails with floral glass etching for 1/3 portion of door area etc complete. The rate includes cost of all materials, labour, hire of tools & machineries, and as per specification.

Basic rate	8935	
Add 10% For area weightage (Mangalore City)	893.5	

				1_	
		Rate	9828.50	Sqm	
	Providing and fixing of Louvered ventilator made out of multi ch		LIDVC (Motobi	ng to DAL 0016)	
	sections and with minimum TiO2 (Titanium Dioxide) at 6PHR with				
	free with gaskets -grey colour having isolated drainage and reinfo	•	•	•	
	out the ventilator frame. The frame having overall size of 39mm				
72	thickness.Louver Clip in Aluminium (Powder Coated in white) wil				
	parts of fixing the 4mm pin head glass. Wall thickness of frame				
	1000mm x 1000mm	onan b	2	possible 6.26	
	(KPWD 18-19,SI.No.38.44.2,Pg.No.308)				
	, ,	1		T	
	Basic rate		3632		
	Add 10% For area weightage (Mangalore City)	Doto	363.2		
		Rate	3995.20	Sqm	
	Providing and fixing 304- grade stainless steel hand rails of 14-gau	Ide nines	for Pampe stair	case made out	
	of stainless steel hallow pipes, using 50mm dia for verticals @1.6	•	•		
	drilling with bolts and 100mm dia MS base plates 10mm gauge for				
	bolts & 40mm dia pipes fixed horizontally for 2-rows top, one pipes				
	with elbows and 25mm dia pipes are fixed horizontally for 2-rows				
	including cutting, welding, bending wherever necessary with suita		•		
73	finishing with mat I shining etc., complete including cost and conve				
	of work, HOM with all lead and lift, loading and unloading, transpor	tation cha	arges and all othe	er incidental	
	charges etc., complete as per specification and directions of the Er	ngineer-in	-charge of the w	ork.	
	Ramps or Staircase for physically challenged.				
	(KPWD 18-19,SI.No.7.39,Pg.No.45)				
	Basic rate		5373		
	Add 10% For area weightage (Mangalore City)		537.3		
		Rate	5910.30	Sqm	
	Providing and fixing M.S. Hand railing for Balcony/Staircase etc.				
	gauge, welded to 20mmx20mm M.S. square rod placed vertically, s				
	600mm. These vertical rods laterally tied to 3 horizontal rods space	•		assembiv is	
74	fixed to concrete by using expansion bolts and welding the same to		ement bars and i	•	
	surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc.,				
		•		making good the essary etc.,	
I	complete. The work includes cost of all materials, labour charges for	or all item	s of work, hire c	making good the essary etc., harges for	
	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, experiences are considered as a second control of the complete.	or all item	s of work, hire c	making good the essary etc., harges for	
	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, edrawing.	or all item	s of work, hire collete as per spe	making good the essary etc., harges for	
	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate	or all item	s of work, hire collete as per spe	making good the essary etc., harges for cification and	
	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, edrawing.	or all itemetc., comp	s of work, hire collete as per spe 2840 284	making good the essary etc., harges for cification and	
	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate	or all item	s of work, hire collete as per spe	making good the essary etc., harges for cification and	
	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate  Add 10% For area weightage (Mangalore City)	or all itemetc., comp	s of work, hire collete as per spe 2840 284	making good the essary etc., harges for cification and	
75	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing anchor bolts as specified in RCC Drawings	or all itemetc., comp	s of work, hire collete as per spe 2840 284	making good the essary etc., harges for cification and	
75	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)	or all itemetc., comp	s of work, hire collete as per spe 2840 284 3124.00	making good the ressary etc., harges for cification and	
75	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)  Basic Material Rate	or all itemetc., comp	2840 284 3124.00	making good the ressary etc., harges for cification and	
75	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)	or all itemetc., comp	2840 2840 284 3124.00	making good the ressary etc., harges for cification and	
75	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)  Basic Material Rate	or all itemetc., comp	2840 2840 284 3124.00	making good the ressary etc., harges for cification and	
75	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)  Basic Material Rate  Add 10% Labour Charges for Fixing	Rate	2840 2840 284 3124.00 40 44.00	making good the ressary etc., harges for cification and	
75	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate Add 10% For area weightage (Mangalore City)  Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)  Basic Material Rate Add 10% Labour Charges for Fixing  KSRB 8.7-5 : Providing and fixing in position 12mm thick plaster	Rate Rate	2840 2840 284 3124.00 40 44.00 (Gypsum anhyd	making good the ressary etc., harges for cification and Sqm	
75	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)  Basic Material Rate  Add 10% Labour Charges for Fixing  KSRB 8.7-5: Providing and fixing in position 12mm thick plaster reinforced with hessian cloth flat surface with ceiling tiles up to	Rate  Rate  r of paris o a heigl	2840 2840 284 3124.00  40 44.00  (Gypsum anhyont of 5 m above	making good the ressary etc., harges for cification and Sqm  Kg drous) for ceiling e floor level over	
	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate Add 10% For area weightage (Mangalore City)  Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)  Basic Material Rate Add 10% Labour Charges for Fixing  KSRB 8.7-5 : Providing and fixing in position 12mm thick plaster	Rate  Rate  r of paris o a heigl	2840 2840 284 3124.00  40 44.00  (Gypsum anhyont of 5 m above	making good the ressary etc., harges for cification and Sqm  Kg drous) for ceiling e floor level over	
	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)  Basic Material Rate  Add 10% Labour Charges for Fixing  KSRB 8.7-5: Providing and fixing in position 12mm thick plaster reinforced with hessian cloth flat surface with ceiling tiles up to aluminium strips 25mm x 6mm and rendered smooth with plaster	Rate  Rate  r of paris o a heigl	2840 2840 284 3124.00  40 44.00  (Gypsum anhyont of 5 m above	making good the ressary etc., harges for cification and Sqm  Kg drous) for ceiling e floor level over	
	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)  Basic Material Rate  Add 10% Labour Charges for Fixing  KSRB 8.7-5: Providing and fixing in position 12mm thick plaster reinforced with hessian cloth flat surface with ceiling tiles up to aluminium strips 25mm x 6mm and rendered smooth with plaster curing complete as per specifications.	Rate  Rate  r of paris o a heigl	2840 2840 284 3124.00  40 44.00  (Gypsum anhyont of 5 m above	making good the ressary etc., harges for cification and Sqm  Kg drous) for ceiling e floor level over	
	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)  Basic Material Rate  Add 10% Labour Charges for Fixing  KSRB 8.7-5: Providing and fixing in position 12mm thick plaster reinforced with hessian cloth flat surface with ceiling tiles up to aluminium strips 25mm x 6mm and rendered smooth with plaster curing complete as per specifications.  KPWD 18-19,SI.No.8.24	Rate  Rate  r of paris o a heigl	2840 2840 284 3124.00  40 44.00  (Gypsum anhyont of 5 m above including cost of	making good the ressary etc., harges for cification and Sqm  Kg drous) for ceiling a floor level over materials, labour,	
	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)  Basic Material Rate  Add 10% Labour Charges for Fixing  KSRB 8.7-5: Providing and fixing in position 12mm thick plaster reinforced with hessian cloth flat surface with ceiling tiles up to aluminium strips 25mm x 6mm and rendered smooth with plaster curing complete as per specifications.  KPWD 18-19,SI.No.8.24  Basic Rate	Rate  Rate  r of paris o a heigl	2840 2844 3124.00  40 44.00  (Gypsum anhyont of 5 m above including cost of	making good the ressary etc., harges for cification and Sqm  Kg drous) for ceiling a floor level over materials, labour,	
	complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, of drawing.  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing anchor bolts as specified in RCC Drawings (KPWD 18-19,Code No.0764)  Basic Material Rate  Add 10% Labour Charges for Fixing  KSRB 8.7-5: Providing and fixing in position 12mm thick plaster reinforced with hessian cloth flat surface with ceiling tiles up to aluminium strips 25mm x 6mm and rendered smooth with plaster curing complete as per specifications.  KPWD 18-19,SI.No.8.24  Basic Rate	Rate Rate r of paris o a heigh	2840 2840 284 3124.00  40 44.00  (Gypsum anhyomt of 5 m above including cost of 1167 116.7	making good the ressary etc., harges for cification and Sqm  Kg drous) for ceiling a floor level over materials, labour,	

KSRB 1.11: Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm, wall thickness 1.25mm, weight 0.417 kg/m, shutter interlock section 40mmx26, 7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm, thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar.

do- using aluminium section anodized to 12- 15 microns.

Ground Floor			
Basic Rate		4350	
Add 10% For area weightage (Mangalore City)		435	
	Rate	4785	Sqm
First Floor			
Basic Rate		4350	
Lift Charges (1 x Rs.6 / sqm)		6	
Add 10% For area weightage (Mangalore City)		435.6	
	Rate	4791.6	Sqm
Second Floor			
Basic Rate		4350	
Lift Charges ( 2 x Rs.6 / sqm)		12	
Add 10% For area weightage (Mangalore City)		436.2	
2 2 1	Rate	4798.2	Sqm

Providing, fabricating, assembling and fixing in position Aluminium partition using 101.60mm x 44.45mm x 3.18mm aluminium, mat finish or glossy finish, anodized sections combination of plain, single groove and double groove members should not exceed 0.60mc/c and bottom member of required lengths, joints mitred and corner grinded sub dividing assembled frame should be stiffened with corner angles. Stripped and fixed with screws rawl plug and teakwood guttas to RCC column or masonry on sides. RCC lintels or beams at top and mosaic floor at bottom; including cutting chistelling and making good with cement mortar to match the surface. Providing and fixing 12mm, thick prelaminated sheet (Ecoboard - exterior grade) of approved colour for bottom panel of maximum height 0.9m, and 5.50 mm thick plain or pin headed glass for middle panel and top panel with glazing clips pi

19.05mm.x17.30mm.1.00mm.

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All the aluminium sections used should be treated for removal of any rust and prevention of further rust formation and coated with greasy materials for non adherence of mortar or any other sticky materials: The vertical members should be embedded in the flooring by making suitable size holes and fixing with cement mortar. All the frame should be thoroughly cleaned free from rust, scale or dirt. work should be carried out as per direction of engineer-in-charge of the work with all lead and lift as per Chief Architect's drawing etc., complete to a degree of perfection.

do- using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality.

	Basic Rate		2600	
	Add 10% For area weightage (Mangalore City)		260	
		Rate	2860	Sqm
79	Providing and Fixing Handcarving Cornice and Bracket made up of	of Burma	Wood as per the	drawings and as

instructed by Architect.

Basic Rate ( Market Rate )		6994	
	Rate	6994	Sqm

80	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size ), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.  50 mm thick						
	(CPWD 2018,SI.No.5.18.1,Pg.No.98)						
	Basic Rate		1474.05				
		Rate	1474.05	Sqm			
81.01	Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474, including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colou and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account). The weight of aluminium extruded section shall be taken for purpose of payment.						
	Basic Rate ( Market Rate )		370.45				
	, ,	Rate	370.45	Kg			
81	Double Glazing Grid:Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:  (a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including:						
	IBasic Rate		2949.3				
	Basic Rate	Rate	2949.3 <b>2949.30</b>				
81	Providing, assembling and supplying vision glass panels (IGUs) mm insulated glass (double glazed) vision panel units of size comprising of an outer heat strengthened float glass 6mm thick, of soft coating on surface # 2 of approved colour and shade, an inn thick, spacer tube 12mm wide, dessicants, including primary se sealant) etc. all complete for the required performances, as perapproved shop drawings, as specified and as directed by the assembled in the factory/ workshop of the glass processor.  (Payment for fixing of IGU Panels in the curtain glazing is included)	comprising and she approved approved approved and see all and see ar the Ar Enginee in cost of	2949.30  Ing of hermetical hape as require discolour and shattrengthned clear econdary seal (sechitectural drawer-in-Charge. The fitem No.25.2)	ly-sealed 6-12- 6 d and specified, ade with reflective r float glass 6mm structural silicone rings, as per the e IGUs shall be			
81	Providing, assembling and supplying vision glass panels (IGUs) mm insulated glass (double glazed) vision panel units of size comprising of an outer heat strengthened float glass 6mm thick, of soft coating on surface # 2 of approved colour and shade, an inn thick, spacer tube 12mm wide, dessicants, including primary se sealant) etc. all complete for the required performances, as papproved shop drawings, as specified and as directed by the assembled in the factory/ workshop of the glass processor.	comprising and she approved and seer the Ar Engineer in cost of panels (experies as ternal 10	2949.30  Ing of hermetical hape as required colour and shattrengthned clear econdary seal (strictural drawer-in-Charge. The excluding the are red in sqm. In the solution of the colour and squared in sqm. In the colour and squared in squa	ly-sealed 6-12- 6 d and specified, ade with reflective r float glass 6mm structural silicone rings, as per the e IGUs shall be as of the grooves 12mm Airgap + nsmittance (VLT) g coefficient (0.25-			
81	Providing, assembling and supplying vision glass panels (IGUs) mm insulated glass (double glazed) vision panel units of size comprising of an outer heat strengthened float glass 6mm thick, of soft coating on surface # 2 of approved colour and shade, an innethick, spacer tube 12mm wide, dessicants, including primary se sealant) etc. all complete for the required performances, as perapproved shop drawings, as specified and as directed by the assembled in the factory/ workshop of the glass processor.  (Payment for fixing of IGU Panels in the curtain glazing is included For payment, only the actual area of glass on face # 1 of the glass and weather silicone sealant) provided and fixed in position, shall be (i) Coloured tinted float glass 6mm thick substrate with reflective soff 6mm Heat Strengthened clear Glass of approved make having proof 25 to 35 %, Light reflection internal 10 to 15%, light reflection ex 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by tec	comprising and she approved and seer the Ar Engineer in cost of panels (experies as ternal 10	2949.30  Ing of hermetical hape as required colour and shattrengthned clear econdary seal (strictural drawer-in-Charge. The excluding the are red in sqm. 250.95  To the colour and shattrengthned clear are red in sqm. 250.95	ly-sealed 6-12- 6 d and specified, ade with reflective r float glass 6mm structural silicone rings, as per the e IGUs shall be as of the grooves 12mm Airgap + nsmittance (VLT) g coefficient (0.25-ty as per the site			
81	Providing, assembling and supplying vision glass panels (IGUs) mm insulated glass (double glazed) vision panel units of size comprising of an outer heat strengthened float glass 6mm thick, of soft coating on surface # 2 of approved colour and shade, an inn thick, spacer tube 12mm wide, dessicants, including primary se sealant) etc. all complete for the required performances, as performed shop drawings, as specified and as directed by the assembled in the factory/ workshop of the glass processor.  (Payment for fixing of IGU Panels in the curtain glazing is included For payment, only the actual area of glass on face # 1 of the glass and weather silicone sealant) provided and fixed in position, shall be (i) Coloured tinted float glass 6mm thick substrate with reflective soft 6mm Heat Strengthened clear Glass of approved make having proof 25 to 35 %, Light reflection internal 10 to 15%, light reflection ex 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by tec requirement.	comprising and she approved and seer the Ar Engineer in cost of panels (experies as ternal 10	2949.30  Ing of hermetical hape as required colour and shattrengthned clear econdary seal (sechitectural drawer-in-Charge. The excluding the are red in sqm. In gon face # 2, + 1 is visible Light tractioning authorical coloning	ly-sealed 6-12- 6 d and specified, ade with reflective r float glass 6mm structural silicone rings, as per the e IGUs shall be as of the grooves 12mm Airgap + nsmittance (VLT) g coefficient (0.25-ty as per the site			
81	Providing, assembling and supplying vision glass panels (IGUs) mm insulated glass (double glazed) vision panel units of size comprising of an outer heat strengthened float glass 6mm thick, of soft coating on surface # 2 of approved colour and shade, an inn thick, spacer tube 12mm wide, dessicants, including primary se sealant) etc. all complete for the required performances, as performed shop drawings, as specified and as directed by the assembled in the factory/ workshop of the glass processor.  (Payment for fixing of IGU Panels in the curtain glazing is included For payment, only the actual area of glass on face # 1 of the glass and weather silicone sealant) provided and fixed in position, shall be (i) Coloured tinted float glass 6mm thick substrate with reflective soft 6mm Heat Strengthened clear Glass of approved make having proof 25 to 35 %, Light reflection internal 10 to 15%, light reflection ex 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by tec requirement.	comprising and she approved and seer Heat so all and seer the Arrich Engineer in cost of panels (experies asternal 10 hnical san Rate	2949.30  Ing of hermetical hape as require discolour and shattrengthned clear econdary seal (strictural drawer-in-Charge. The fitem No.25.2) excluding the are red in sqm. It is visible Light traits 20 %, shading anctioning authoric 3250.95  3250.95	ly-sealed 6-12- 6 d and specified, ade with reflective refloat glass 6mm structural silicone rings, as per the e IGUs shall be as of the grooves 2mm Airgap + nsmittance (VLT) g coefficient (0.25-ty as per the site			
	Providing, assembling and supplying vision glass panels (IGUs) mm insulated glass (double glazed) vision panel units of size comprising of an outer heat strengthened float glass 6mm thick, of soft coating on surface # 2 of approved colour and shade, an inn thick, spacer tube 12mm wide, dessicants, including primary se sealant) etc. all complete for the required performances, as prapproved shop drawings, as specified and as directed by the assembled in the factory/ workshop of the glass processor.  (Payment for fixing of IGU Panels in the curtain glazing is included For payment, only the actual area of glass on face # 1 of the glass and weather silicone sealant) provided and fixed in position, shall be (i) Coloured tinted float glass 6mm thick substrate with reflective soft 6mm Heat Strengthened clear Glass of approved make having proof 25 to 35 %, Light reflection internal 10 to 15%, light reflection ex 0.28) and U value of 3.0 to 3.3 W/m2 degree  K etc. The properties of performance glass shall be decided by tec requirement.  Basic Rate  Providing and Fixing SS 304 Outdoor Dustbin(Pivoted Type and M all complete to the satisfaction of the Engineer in charge.	comprising and she approved and seer Heat so all and seer the Arrich Engineer in cost of panels (experies asternal 10 hnical san Rate	2949.30  Ing of hermetical hape as require discolour and shattrengthned clear econdary seal (strictural drawer-in-Charge. The fitem No.25.2) excluding the are red in sqm. It is visible Light traits 20 %, shading anctioning authorical 3250.95	ly-sealed 6-12- 6 d and specified, ade with reflective refloat glass 6mm structural silicone rings, as per the e IGUs shall be as of the grooves 2mm Airgap + nsmittance (VLT) g coefficient (0.25-ty as per the site			

	,			1
				<u> </u>
	Road Marking with hot applied Thermoplastic Compound with		•	
1	Surface: Providing and laying of hot applied thermoplastic composition	ound 2.5	imm thick includ	ling reflectorising
	glass beads at 250 gms and 2 ltr of primer per sqm area, thickness	s of 2.5m	nm is exclusive o	of surface applied
83	glass beads as per IRC:35.The finished surface to be level,uniform			
1	as per specifications.MORTH specification No.803	J.		,
	(KPWD 18-19,SI No : 24.15)			
				1
	Basic Rate		429	
	Add 10% For area weightage (Mangalore City)	_	42.9	
		Rate	471.90	Sqm
	Fabricating, providing and erecting in poiston of M S Ornamental	-		•
	wall without hot dip using 75 x 12mm M S Flat for alround frai			
	horizontal centere support M S Square of 20 x20 mm of different I			
	fixed at 16 cms C/C for sugare bars of full height and at 8cms C /			
	Designers at the botom and C I arrows inthe midle and top. The er			•
84	expansion bolts to the brick pillars with necesary drillling holes.			
-	enamel painting over one coatr of red lead ready mix primer coat		•	
	erection charges using hoist pulleycranes with all lead and lift, load			
	pulley cranes, scaffolding charges and all other incidental charges	s required		
	work as per specification and drawings(KPWD 18-19,Pg.N0.41,SI.I			
		•		
	Pagio rato	<del>- 1</del>		
	Basic rate		149	
	Add 10% For area weightage (Mangalore City)		14.9	
		Rate	163.90	KG
85	Providing and Fixing SS Steel Chairs as specified by Architect.			T
	Basic Rate		9000	
		Rate	9000.00	Nos.
86.00	P/F FRP Water gully cover with frame (25T) 600mmx500 mm on S	WD (Rat	te analysis attach	ned)
	Basic Rate	,	10765	
	Discount 30%		-3229.5	
	Sub Total		7535.5	
	Fixing Charges @5%		376.775	
	i ining Unarges (#U/0	Pata	7912.28	
		Rate	1912.28	1405.
			<u> </u>	<u> </u>
07	Droviding and fiving of C.C. Dolland-7000043 and fiving of C.C. Dolland-700043 and fiving o	.d == ! .	iroctod by F	oor is start
87	Providing and fixing of S.S. Bollards(SS304) on footpath as specific	ea and d	rrected by Engin	eer -in-charge
	(NON SOR Item)			
	Basic Rate		4500	
	Rate Approved as per EOI by MD MSCL Mangalore,Refer	Rate	4500.00	Nos.
1	Sr.No.13			
		,		
	Supplying and Fixing Passanger elevator of 8 Person Capacity of	ot approv	ed make and a	s per directed by
88	Engineer in charge.			
	(CPWD Plinth Area Basis Rate-2019)			
	Pagia Pata		100	T
	Basic Rate		1600000	
		Rate	1600000.00	NOS.
	Extra Lead for Disposing off unserviceable materials upto 10 Km be	eyond init	tial Lead of 5km	
89	Item No 17.4 KSRRB M100-4.1-Debris	,		
			1.20-4014	
	Debris Deign rate	2.0x	(1.30x10Km	<u> </u>
	Baisc rate		26.00	Í
	Add Leading and only its 100 to 100 t	,		
	Add Loading and unloading charges(Item No 17.1 KSRRB M100-1)		57.00	

Sub Total Add 10% For area weightage (Mangalore City)		82.60 8.26 <b>90.86</b>	
Sub Total		82.60	
[1)			
a general general services and a service service service services and a service service service services and a service service service service services and a service service service service services and a service service service services and a service service service services and a service service service service services and a service service service services and a service service service service services and a service service service service services and a service ser		57.00	
Add Loading and unloading charges(Item No 17.1 KSRRB N	/100-		
Baisc rate		25.60	
Earth	2.0x1.2	28x10km	
90 Extra Lead for Disposing off unserviceable materials upto 10 Item No 17.4 KSRRB M100-4.1-Earth	Km beyond initial	Lead of 5 km	
	Raio	01100	- Cum
/ tau 10/01/01 and mongridage (managanete only)	Rate	91.30	
Add 10% For area weightage (Mangalore City)		8.3	
		83.00	

Assistant Executive Engineer MSCL Mangaluru

**Executive Engineer MSCL Mangaluru** 

# **BOQ** of Softscape of UPOR

Sr.No.	Specifications	Unit	Quantity	Rate	Amount	Remarks
1.1	SOIL MIXES and Ground Preparation					
1.1.1	Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item)	Cum	312.35	140.00	43,729	
1.1.2	KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)	Cum	153.85	224.40	34,523	
1.1.3	KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77)	Cum	466.20	113.30	52,820	
1.1.4	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)	Cum	466.20	23.91	11,147	
1.1.5	Soil preparation of Lawn					
	KSRRB M300-3.Making lawns including ploughing and breaking of clod,removal of rubbish,dressing and supplying doobs grass roots and planting at 15 cm apart,including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications. MORTH Specification No.307 (KSRRB 19.80)	Sqm	777.00	17.60	13,675	
1.2 1.2.1	Tree and Turf ZOYSIA JAPONICA ( MAT) (Non SOR Item)	Sqm	777.00	156.80	1,21,834	
1.2.1	KSRRB M300- 8.1. Planting and Maintaining of Flowering Plants and Shrubs  -A) Planting flowring plants and shrubs in central verge MORTH Specification No. 307	Rm	300.00	50.60	15,180	
1.2.2	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.  MORTH Specification No. 307 KSRRB M300-Renovation lawns including, weeding, forking the ground, top dressing with forked soil	Nos.	60.00	115.50	6,930	
	,		Total		2,99,838	

Assistant Engineer MSCL Mangaluru

Assistant Executive Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

# **Measurement Sheet of Softcase-UPOR**

Sr.No.	Item	Unit	No.	L	В	Н	Qty.
1.1	SOIL MIXES and Ground Preparation						
	Supplying and stacking of good earth at site						
	including royalty and carriage upto 5 k.m. lead						
1.1.1	complete (earth measured in stacks will be						
	reduced by 20% for payment).						
	(Non SOR Item)						
	Landscape Area 1	Cum	0.67	104		0.60	41.81
	Landscape Area 2	Cum	0.67	36.		0.60	14.47
	Landscape Area 3	Cum	0.67	6.0	_	0.60	2.41
	Landscape Area 4	Cum	0.67	11.	00	0.60	4.42
	Landscape Area 5	Cum	0.67	45.	00	0.60	18.09
	Landscape Area 6	Cum	0.67	35.	00	0.60	14.07
	Landscape Area 7	Cum	0.67	14.	00	0.60	5.63
	Landscape Area 8	Cum	0.67	48.	00	0.60	19.3
	Landscape Area 9	Cum	0.67	171	.00	0.60	68.74
	Landscape Area 10	Cum	0.67	20.		0.60	8.04
	Landscape Area 11	Cum	0.67	17.	00	0.60	6.83
	Landscape Area 12	Cum	0.67	20.		0.60	8.04
	Landscape Area 13	Cum	0.67	118	.00	0.60	47.44
	Landscape Area 14	Cum	0.67	25.	00	0.60	10.05
	Landscape Area 15	Cum	0.67	107	.00	0.60	43.01
	Consider 2/3rd Qty of Item No.1.1.7	Cum					312.35
	KSRRB M300-Supply at site of work well						
	decayed farm yard manure KSRRB M300-11.						
	Supply at site of work well decayed farm yard						
1.1.2	manure, from any available source, approved by						
1.1.2	the engineer in charge including screening and						
	stackin complete as per specifications. MORTH						
	Specification No. 308.2(Page						
	No.152,SI.No.19.90)						
	Landscape Area 1	Cum	0.33	10		0.6	20.59
	Landscape Area 2	Cum	0.33	36		0.6	7.13
	Landscape Area 3	Cum	0.33	6		0.6	1.19
	Landscape Area 4	Cum	0.33	1.		0.6	2.18
	Landscape Area 5	Cum	0.33	4		0.6	8.91
	Landscape Area 6	Cum	0.33	3		0.6	6.93
	Landscape Area 7	Cum	0.33	14		0.6	2.77
	Landscape Area 8	Cum	0.33	48		0.6	9.50
	Landscape Area 9	Cum	0.33	17		0.6	33.86
	Landscape Area 10	Cum	0.33	20		0.6	3.96
	Landscape Area 11	Cum	0.33	17		0.6	3.37
	Landscape Area 12	Cum	0.33	20		0.6	3.96
	Landscape Area 13	Cum	0.33	11		0.6	23.36
	Landscape Area 14	Cum	0.33	2		0.6	4.95
	Landscape Area 15	Cum	0.33	10	7	0.6	21.19
	Consider 1/3rd Qty of Item No.1.1.7	Cum					153.85

Sr.No.	Item	Unit	No.	L	В	Н	Qty.
1.1.3	KSRRB M300-Horticulture KSRRB M300-Spreading of sludge farm yard manure or/ and good earth KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm yard manure or/and good earth to be paid for separately) complete as per specifications. MORTH Specification No. 307 (KPWD SR 16-17,Page No.150,SI No.19.77)						
	Landscape Area 1	Cum	1	104		0.6	62.40
	Landscape Area 2	Cum	1	36		0.6	21.60
	Landscape Area 3	Cum	1	6		0.6	3.60
	Landscape Area 4	Cum	1	11		0.6	6.60
	Landscape Area 5	Cum	1	45		0.6	27.00
	Landscape Area 7	Cum	1	35 14		0.6	21.00 8.40
	Landscape Area 7 Landscape Area 8	Cum Cum	1	48		0.6	28.80
	Landscape Area 9	Cum	1	171		0.6	102.60
	Landscape Area 9  Landscape Area 10	Cum	1	20		0.6	102.00
	Landscape Area 11	Cum	1	17		0.6	10.20
	Landscape Area 12	Cum	1	20		0.6	12.00
	Landscape Area 13	Cum	1	118		0.6	70.80
	Landscape Area 14	Cum	1	25		0.6	15.00
	Landscape Area 15	Cum	1	107		0.6	64.20
						Total	466.20
1.1.4	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)  Consider Same Qty. of 1.1.7  Soil preparation of Lawn  KSRRB M300-3.Making lawns including ploughing and breaking of clod,removal of rubbish,dressing and supplying doobs grass roots and planting at 15 cm apart,including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications.  MORTH Specification No.307	Cum					466.20
	(KSRRB 19.80) In rows 5 cm apart in both directions Landscape Area 1	Sqm	1	104.	00		104.00
	Landscape Area 2	Sqm	1	36.0			36.00
	Landscape Area 3	Sqm	1	6.0	0		6.00
	Landscape Area 4	Sqm	1	11.0	00		11.00
	Landscape Area 5	Sqm	1	45.0			45.00
	Landscape Area 6	Sqm	1	35.0			35.00
	Landscape Area 7	Sqm	1	14.0			14.00
	Landscape Area 8	Sqm	1	48.0			48.00
	Landscape Area 9	Sqm	1	171.0	00		171.00
	Landscape Area 10	Sqm	1	20.0			20.00
	Landscape Area 11	Sqm	1	17.0	00		17.00

Sr.No.	Item	Unit	No.	L	В	Н	Qty.
	Landscape Area 12	Sqm	1	20.00			20.00
	Landscape Area 13	Sqm	1	118.00			118.00
	Landscape Area 14	Sqm	1	25.0	25.00		25.00
	Landscape Area 15	Sqm	1	107.	.00		107.00
						Total	777.00
1.2	ZOYSIA JAPONICA ( MAT) (Non SOR Item)						
	Landscape Area 1	Sqm	1	10	4		104.00
	Landscape Area 2	Sqm	1	36	3		36.00
	Landscape Area 3	Sqm	1	6			6.00
	Landscape Area 4	Sqm	1	11	1		11.00
	Landscape Area 5	Sqm	1	45	5		45.00
	Landscape Area 6	Sqm	1	35	5		35.00
	Landscape Area 7	Sqm	1	14	1		14.00
	Landscape Area 8	Sqm	1	48	3		48.00
	Landscape Area 9	Sqm	1	17	1		171.00
	Landscape Area 10	Sqm	1	20	)		20.00
	Landscape Area 11	Sqm	1	17			17.00
	Landscape Area 12	Sqm	1	20	)		20.00
	Landscape Area 13	Sqm	1	11	8		118.00
	Landscape Area 14	Sqm	1	25			25.00
	Landscape Area 15	Sqm	1	10	7		107.00
	·					Total	777.00
	KSRRB M300- 8.1. Planting and Maintaining of Flowering Plants and Shrubs						
1.2.1	-A) Planting flowring plants and shrubs in central verge MORTH Specification No. 307	Rm	1	300			300.00
1.2.2	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.  MORTH Specification No. 307 KSRRB M300-Renovation lawns including, weeding, forking the ground, top dressing with forked soil	Nos.	60				60.00

Assistant Executive Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

Rate Analysis-Softscape-UPOR

	Supplying and stacking of good earth at site	ncluding royalt	v and carriage	unto 5 k m
	lead complete (earth measured in stacks will	• •		•
1.1.1	(Non SOR Item)	be reduced by	2070 for paying	onty.
	(Non sor item)			
	Rate Approved as per EOI by MD MSCL			
		Rate	140.00	Cum
	Mangalore,Refer Sr.No.27			
	KSRRB M300-Supply at site of work well de	caved farm va	ord manure KSI	RRB M300-1
	Supply at site of work well decayed farm			
1.1.2	approved by the engineer in charge includ	•	•	
	specifications. MORTH Specification No. 308			
	specifications. MONTH Specification No. 300		02,31.1 <b>1</b> 0.19.90)	
	Basic rate		204	
			20.4	
	Add 10% For area weightage	Doto		
	KODDD MOOD II. di di KODDD MOOD O	Rate	224.40	
	KSRRB M300-Horticulture KSRRB M300-Sp	•	•	
	good earth KSRRB M300-1. Spreading of slu	dge farm yard	manure or/ and	d good earth
	required thickness (cost of sludge, farm yard	manure or/and	d good earth to	be paid for
1.1.3	separately) complete as per specifications. M	IORTH Specific	cation No. 307	
	(KPWD SR 16-17, Page No.150, SI No.19.77)	•		
	(			
			100	T
	Basic rate		103	
	Add 10% For area wightage		10.3	
		Rate	113.30	Cum
	Mixing earth and sludge or manure in the rec	uired proportio	n specified or o	directed by th
	Officer-in-charge	, ,		
1.1.4				
	I/Non SOR itam)			
	(Non SOR item)			
	,			
	Rate Approved as per EOI by MD MSCL	Rate	23.91	Cum
	,	Rate	23.91	Cum
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plou	ghing and brea	aking of clod,re	moval of
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plourubbish,dressing and supplying doobs grass	ghing and brea	aking of clod,renting at 15 cm a	moval of part,including
1.1.5	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plourubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure	ghing and brea	aking of clod,renting at 15 cm a	moval of part,including
1.1.5	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plourubbish,dressing and supplying doobs grass supplying and spreading of farm yard manurals per specifications.	ghing and brea	aking of clod,renting at 15 cm a	moval of part,including
1.1.5	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plourubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure	ghing and brea	aking of clod,renting at 15 cm a	moval of part,including
1.1.5	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plourubbish,dressing and supplying doobs grass supplying and spreading of farm yard manurals per specifications.	ghing and brea	aking of clod,renting at 15 cm a	moval of part,including
1.1.5	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plourubbish,dressing and supplying doobs grass supplying and spreading of farm yard manurals per specifications.  MORTH Specification No.307	ghing and brea	aking of clod,renting at 15 cm a	moval of part,including qm complete
1.1.5	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plourubbish,dressing and supplying doobs grass supplying and spreading of farm yard manuras per specifications.  MORTH Specification No.307 (KSRRB 19.80)  Basic rate	ghing and brea	aking of clod,renating at 15 cm a Bcum per 100 s	moval of part,including qm complete
1.1.5	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plou rubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications.  MORTH Specification No.307 (KSRRB 19.80)	ghing and brea roots and plan e at rate of 0.18	aking of clod,rei ating at 15 cm a 3cum per 100 s	moval of part,including qm complete
1.1.5	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plourubbish,dressing and supplying doobs grass supplying and spreading of farm yard manuras per specifications.  MORTH Specification No.307 (KSRRB 19.80)  Basic rate	ghing and brea	aking of clod,renating at 15 cm a Bcum per 100 s	moval of part,including qm complete
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plourubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications.  MORTH Specification No.307 (KSRRB 19.80)  Basic rate  Add 10% For area wightage	ghing and brea roots and plan e at rate of 0.18	aking of clod,rei ating at 15 cm a 3cum per 100 s	moval of part,including qm complete
1.1.5	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plour rubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications.  MORTH Specification No.307 (KSRRB 19.80)  Basic rate  Add 10% For area wightage	ghing and brea roots and plan e at rate of 0.18	aking of clod,rei ating at 15 cm a 3cum per 100 s	moval of part,including qm complete
1.2	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plou rubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications.  MORTH Specification No.307 (KSRRB 19.80)  Basic rate  Add 10% For area wightage  TURF ZOYSIA JAPONICA ( MAT)	ghing and brea roots and plan e at rate of 0.18	aking of clod,rei ating at 15 cm a 3cum per 100 s	moval of part,including qm complete
1.2	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plour rubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications.  MORTH Specification No.307 (KSRRB 19.80)  Basic rate  Add 10% For area wightage	ghing and brea roots and plan e at rate of 0.18	aking of clod,rei ating at 15 cm a 3cum per 100 s	moval of part,including qm complete
1.2	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plou rubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications. MORTH Specification No.307 (KSRRB 19.80) Basic rate Add 10% For area wightage  TURF ZOYSIA JAPONICA ( MAT) (Non SOR Item)	ghing and brea roots and plan e at rate of 0.18	aking of clod,rei ating at 15 cm a 3cum per 100 s	moval of part,including qm complete
1.2	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plour rubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications.  MORTH Specification No.307 (KSRRB 19.80)  Basic rate Add 10% For area wightage  TURF ZOYSIA JAPONICA ( MAT) (Non SOR Item)  Rate Approved as per EOI by MD MSCL	ghing and brea roots and plan e at rate of 0.18	aking of clod,rei ating at 15 cm a 3cum per 100 s	moval of part, including qm complete
1.2	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plou rubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications. MORTH Specification No.307 (KSRRB 19.80) Basic rate Add 10% For area wightage  TURF ZOYSIA JAPONICA ( MAT) (Non SOR Item)	ghing and brea roots and plan e at rate of 0.18	aking of clod,rei ating at 15 cm a 3cum per 100 s 16 1.6 17.60	moval of part, including qm complete
1.2	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plour rubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications.  MORTH Specification No.307 (KSRRB 19.80)  Basic rate  Add 10% For area wightage  TURF ZOYSIA JAPONICA ( MAT) (Non SOR Item)  Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.32	ghing and brea roots and plan e at rate of 0.18 Rate	aking of clod,renating at 15 cm a Boum per 100 s  16 1.6 17.60	moval of part, including qm complete
1.2	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plou rubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications. MORTH Specification No.307 (KSRRB 19.80) Basic rate Add 10% For area wightage  TURF ZOYSIA JAPONICA ( MAT) (Non SOR Item)  Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.32  KSRRB M300- 8.1. Planting and Maintaining	ghing and brea roots and plan e at rate of 0.18  Rate  Rate  Of Flowering P	aking of clod,renating at 15 cm a Boum per 100 s  16 1.6 17.60	moval of part, including qm complete
<b>1.2</b> 1.2.1	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plour rubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications.  MORTH Specification No.307 (KSRRB 19.80)  Basic rate  Add 10% For area wightage  TURF ZOYSIA JAPONICA ( MAT) (Non SOR Item)  Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.32	ghing and brea roots and plan e at rate of 0.18  Rate  Rate  Of Flowering P	aking of clod,renating at 15 cm a Boum per 100 s  16 1.6 17.60	moval of part, including qm complete
<b>1.2</b> 1.2.1	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plou rubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications. MORTH Specification No.307 (KSRRB 19.80) Basic rate Add 10% For area wightage  TURF ZOYSIA JAPONICA ( MAT) (Non SOR Item)  Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.32  KSRRB M300- 8.1. Planting and Maintaining	ghing and brea roots and plan e at rate of 0.18  Rate  Rate  Of Flowering P	aking of clod,renating at 15 cm a Boum per 100 s  16 1.6 17.60	moval of part, including qm complete
<b>1.2</b> 1.2.1	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plour rubbish, dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications.  MORTH Specification No.307 (KSRRB 19.80)  Basic rate  Add 10% For area wightage  TURF  ZOYSIA JAPONICA (MAT) (Non SOR Item)  Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.32  KSRRB M300- 8.1. Planting and Maintaining -A) Planting flowring plants and shrubs in cell MORTH Specification No. 307	ghing and brea roots and plan e at rate of 0.18  Rate  Rate  Of Flowering P	aking of clod,reresting at 15 cm as 3 cum per 100 s  16 1.6 17.60  156.80	moval of part, including qm complete  Sqm  Sqm
<b>1.2</b> 1.2.1	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plou rubbish,dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications. MORTH Specification No.307 (KSRRB 19.80) Basic rate Add 10% For area wightage  TURF ZOYSIA JAPONICA ( MAT) (Non SOR Item)  Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.32  KSRRB M300- 8.1. Planting and Maintaining -A) Planting flowring plants and shrubs in ce MORTH Specification No. 307  Basic rate	ghing and brea roots and plan e at rate of 0.18  Rate  Rate  Of Flowering P	aking of clod,renating at 15 cm as Boum per 100 s  16 1.6 17.60  156.80  Plants and Shrul	moval of part,including qm complete  Sqm  Sqm
1.1.5  1.2  1.2.1	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28  KSRRB M300-3.Making lawns including plour rubbish, dressing and supplying doobs grass supplying and spreading of farm yard manure as per specifications.  MORTH Specification No.307 (KSRRB 19.80)  Basic rate  Add 10% For area wightage  TURF  ZOYSIA JAPONICA (MAT) (Non SOR Item)  Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.32  KSRRB M300- 8.1. Planting and Maintaining -A) Planting flowring plants and shrubs in cell MORTH Specification No. 307	ghing and brea roots and plan e at rate of 0.18  Rate  Rate  Of Flowering P	aking of clod,reresting at 15 cm as 3 cum per 100 s  16 1.6 17.60  156.80	moval of part,including qm complete  Sqm  Sqm

1.2.2	KSRRB M300-9. Planting of trees by the roam deep dug in the ground, mixing the soil wir planting the saplings, backfilling the trench, maintaining the plants for one year complete MORTH Specification No. 307 KSRRB M30 including, weeding, forking the ground, top dre	th decayed farm watering, fixing e as per specif 0-Renovation la	n yard/sludge n the tree guard ications. awns	nanure,
	Basic rate		105	
	Add 10% For area wightage		10.5	
		Rate	115.50	Nos.

Assistant Executive Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

	Bill of Quantity Electrical works (UPOR)						
S.No	Ref.	No.	Description of Item	Unit	QTY	Rate (Rs)	Amount
	SOR	PWD					
1			LT Panels				
			Fabrication, inspection at works Supply, installation, testing & commissioning				
			of following readymade distribution boards, double door, IP 42 degree				
			protection complete with necessary, MCB isolators , MCBs, earth leakage				
			circuit breaker (ELCB) etc including interconnections with appropriate capacity				
			size of PVC insulated copper conductor wires (ISI marked), suitable for concealed mounting /wall mounting with MS frame work of 40 x 40 x 5 mm MS				
			angle iron, with M.S. enclosure fabricated out of min 16 SWG thick M.S.				
			CRCA sheet with concealed hinged door, locking arrangement etc. including				
			earthing clamps for both incoming & outgoing circuits, interconnections, per				
			phase isolation kit as required, cable end box & wire way box if required,				
			continuous copper earth wire in the wire way box with single/duplicate brass earthing terminals, danger board, name plate, flexible earthing for the door,				
			metal treatment & powder coated painting, Phase Distribution drawing etc. all				
			as per drawings (G.A. & fabrication drawing to be got approved), etc. relevant				
			IS & instruction of Engineer-in-charge.				
			N-4				
			Note:  1.MCBs shall be minimum 10 KA breaking capacity (Type –C)				
			Blanking Plates shall be included in scope of work.				
			3. DB shall be of standard readymade type as per catalouge No. from				
			approved manufacturers as indicated in preferred makes of material.				
-			Wire way & cable end box also end & locking plates shall be provided.      Pouting tasts will be conducted at factory in presence of user as not				
			<ol><li>Routine tests will be conducted at factory in presense of user as per relevant IS.</li></ol>				
			All Electrical component should have IS mark				
1.1			Main LT Panel	Set	1	35750.0	35750
1.1			Incomer	Set	'	33730.0	33730
			1 Nos. 100 Amps TPN MCCB of fault breaking capacity 25KA (Ics=Icu)				
			BUSBARS SECTIONS  100 amps FP, 25kA, 480volts grade busbar chamber of suitable length with Al				
	Refer		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				
	Panel Cost		sectional area of Bus Bar.				
	Sheet						
			OUTGOING				
			2 Nos. Of 63 A TPN MCB 1 Nos. Of 40 A TPN MCB				
			1 Nos. Of 25 A TPN MCB				
			1 Nos. Of 16 A TPN MCB				
			1 Nos. Of 63 A TPN MCB as SPARE				
			2 Nos. Of 40 A TPN MCB as SPARE				
1.2			EXTERNAL LIGHTING PANEL	Set	2	52014.0	104028
			Incomer			0_01110	
			1 Nos. 32 Amps TPN MCB				
			BUSBARS SECTIONS				
	Refer		50 amps FP, 25kA, 480volts grade busbar chamber of suitable length with Al				
	Panel Cost		busbars. All busbars and interconnections shall be of suitable size Al busbar,				
	Sheet		current density of bus-bars shall not be more than 0.8 Amps/ sq.mm cross sectional area of Bus Bar.				
			poetiitiiai alea tii dus dal.				
			OUTGOING				
			5 Nos. Of 16 A TPN MCB				
			3 Nos. Of 16 A TPN MCB as SPARE				
			Total Cost of LT Panels (Rs.)				139778
2			Distribution Board				
			Supplying and fixing regular MCB distribution boards on wall/wood board /	_			
2.1	6.17		flushh mouning using required clamps, bolt, nuts etc. with provision for fixing suitable type capacity MCB's single phase / 3 phase / single goor with powder				
			ciated painting. Made out of 14 SWG MS enclosure.				
			III. Double Door				
			III - Double Door				
2.1.1	6.17.8		6Way TP & N	Nos.	1	2867.0	2867
2.1.2	6.17.9		8Way TP & N	Nos.	1	3585.0	3585
2.1.3	6.17.10		12Way TP & N	Nos.	2	5138.0	10276
L	<u>I</u>				]		

S.No	Ref.	No.	Description of Item	Unit	QTY	Rate (Rs) Rate	Amount
2.2	<b>SOR</b> 6.16	PWD	Supplying & 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				
2.2.1	6.16.1		5-32Amps SP	Nos.	114	418.0	47652
2.2.2	6.16.5		5-32Amps TPN	Nos.	1	1547.0	1547
2.2.3	6.16.6		40-63Amps TPN	Nos.	3	1936.0	5808
2.3	6.18		Supplying fixing and wiriing Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on existing wood/panel board.				
221	6.18.2		46.25 Amps 2Dela	Nos.	1	2412.0	2412
2.3.1	6.18.2		16-25 Amps 2Pole 32-40 Amps 2Pole	Nos.	3	2623.0	7869
2.0.2	0.10.2		02 40 / Mipo 21 010	1400.	Ŭ	2020.0	7,000
2.4.1	6.42.1 , 6.44.6 6.42.1 ,		63A TPN ISOLATOR	Nos.	1	5396	5396
2.4.2	6.43.4, 6.44.6		40A TPN ISOLATOR	Nos.	1	7010	7010
			Total Cost of Distribution Board (Rs.)				94422
•			LT Floatrical Cable				
3			LT Electrical Cable				
			LT Cable		<u> </u>		
3.1	7.4		Supplying and laying the following XLPE insulated 1.1 KV grade, FRLS (outer sheath only), armoured/flexible and overall sheathed copper/aluminium conductor cables made to IS: 7098 (Part-I) 1988.				
3.1.1	7.4.7		3.5C x 50sq.mm Al Arm Cable	Mtr	80	265.0	21200
3.1.2		PWD 7-2-34	Supplying, erecting & terminating XLPE armoured cable 4 core 16 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/	Mtr	50	734.0	36700
			pipe as per specification no. CB-LT/CU				
3.1.3		PWD 7-2-32	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	160	336.0	53760
3.1.4		PWD 7-2-31	Supplying, erecting & terminating XLPE armoured cable 4 core 4 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	1050	251.0	263550
3.2			LT Cable Termination				
3.2.1	7.14		Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1KV class (metal only)				
	7.14.3		32mm dia 2.5mm thick	Each	1	122.0	122
	_					-	
3.2.2	7.21		Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.				
	7.21.6		16 sqmm	Each	1	11.3	11.31
	7.21.9		50 sqmm Long barrel	Each	3	62.4	187.2
			Cable Laying				
		<del> </del>	Labour charges for laying of 1.1KV class UG cable in existing trench/GI pipe/		<del>                                     </del>		
3.3	7.8		stoneware pipe/ on wall/ on pole as required. in existing trench/duct				
3.3.1	7.8.1	-	6 to 16 samm	Mtr	1000	10.8	10800
3.3.1	7.8.1	-	6 to 16 sqmm 25 to 75 sqmm	Mtr	60	16.2	972
			on wall structure				
3.3.3	7.8.6		6 to 16 sqmm	Mtr	100	31.0	3100
			Digging of trench of 0.6m deep X 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete (As per Civil SR KSRB i-2, P-7)				
3.4	7.9						
3.4.1	7.9		In soil (ordinary)	Mtr	400	78.0	31200

S.No	Ref.	No.	Description of Item	Unit	QTY	Rate (Rs) Rate	Amount
	SOR	PWD	Total Cost of LT Cable (Rs.)				4,21,603
4			Networking & Telecommunication				
					500	22.22	11500
4.1	11.1		Supply & Drawing UTP-CAT6E LAN Cable	Rmt	500	23.00	11500
4.2	11.4		Supply & Fixing of switch mounting rack with power manager & Cable manager				
4.2.1	11.4.2		9U with 450mm depth	Nos	1	6593.00	6593
4.3	11.9		Supply fixing of Network Switches				
4.3.1	11.9.1		48 Port Gigabyte (Manageble)	Nos.	1	34815.00	34815
4.4	11.10		Supplying & fixing of I/O socket with box				
4.4.1	11.10.2		Double I/O	Nos.	1	590.00	590
4.5	11.11		Supplying & fixing ofmtr Cat6 Patch cable				
4.5.1	11.11.3		3mtr	Nos.	52	337.00	17524
4.6	11.12		Supply & fixing of Patch panel for LAN cabling				
4.6.1	11.12.1		48 Port 10/100 patch Panel	Each	1	13082.00	13082
4.7	11.2		Supplying and drawing PVC flexible one pair telephone unarmoured				
4.7.1	11.2.2		tinned copper cables 2 Pair	Mtr	120	13.00	1560
7.7.1	11.2.2			IVIU	120	10.00	1000
	Non SOR		Crone Box				
4.8	Item		30 Pair Crone Box	1	1	1000.00	1000
			Total Cost of LT Cobles (Do.)				96 664
			Total Cost of LT Cables (Rs.)				86,664
5			UPS				
5.1			Supply, installation, testing and commissioning of ON - line UPS system with Batteries for 1/2 hour backup. UPS capacity:- 1 Nos. x 20 kVAPRS mode 3Ph-3Ph. with Batteries 6 x 80Ah volt and other accesories to complete the job	Nos	1	400000	400000
			Total Cost of UPS (Rs.)				4,00,000
6			Cable Tray & Raceway				
6.1			Cable trays				
0.1	7.19.1		Supplying & fixing 2mm thick galvanized perforated tray with powder coated paint on exixting MS angle support using necessary GI bolts/nuts and washer or welding as required.				
6.1.1	7.19.1		150 X 50 mm	Mtr	30	440.0	13200
6.1.2	7.19.2		300 X 50 mm	Mtr	10	547.0	5470
6.2			Raceways				
			Raceways & Accessories  Supply and installation of single or multi compartment GI raceway of cross section given below laid in floor complete as specified.  a) Raceway  b) All bends, joints, supports, end plates couplers earth conductivity.				
6.2.1			300 x 50 Double compartment	Rmt	20	1215.0	24300
6.2.2			150 x 50 Single compartment	Rmt	100	590.0	59000
			Providing and fixing of 2 mm thick pregavanised sheet outlet junction box including providing cover with provision to adjust overall height, knock outs on four sides to accept raceways of specified sizes and cutouts to fix required outlets for following size of race ways.				
6.2.3 6.2.4			300 mm wide x 40 mm deep raceway with 3/2/1 compatments 150 mm wide x 40 mm deep single compatment raceway	Nos Nos	4 8	2500.0 2000.0	10000 16000
			Total Cost of Cable Tray & Raceway (Rs.)	.100		_555.0	1,27,970
7							
,			Light Fixture				

S.No	Ref.	No.	Description of Item	Unit	QTY	Rate (Rs) Rate	Amount
7.1	4.33	PWD	Supply of 2'x2' LED recessed luminaire with Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit,overload & mis-wiring protection. Lumen maintenance of 70% at 50000Hrs. Injection moulded polycarbonate diffuser for better mwchanical stability, light transmission & avoid pot hole effect. Junction temp.shall be <70 degree Celsius. Driver is on constant current driver @0.06A with PF > 0.92 with line voltage@ 220-240V @ 50/60Hz, driver effeciency > 85% & THD <15%. LED Efficiency > 130lm/W at 1W & fixture efficency >75lm/W with CRI >75 with injection moulded polycarbonate lens with <80mm depth. 5years Warranty against any manufacturing defect working under standard electrical condition.				
7.1.1	4.33.2		LED modulear down light 2' x 2' -36watts	Each	31	8242.0	255502
7.2	4.32		Supply of LED square recessed downlighter with 18 W system wattage. Housing shall be with powder coated pressure die cast aluminium alloy with corrision resistant polyester powder coat & with extended heat sink. Diffuse/cover made of lexan plastic material. rated life shall be L70 @ 50000 Hrs ehich shall has inbuilt electrical protection like over/under voltage, short circuit, overload,open circuit & miswiring. Driver is in constant current driver output driver at 0.06A with PF> 0.9 with line voltage at 220-240V @ 50/60Hz, driver efficiency > 85% & THD <15%. LED Efficiency > 130 lm/W at 1 W & fixture efficiency > 75 lm/W with CRI > 75 with injection moulded polycarbonate lens. 5years Warranty against any manufacturing defect working under standard electrical condition.	Each	32	4945.0	158240
7.3	4.31		Supply of recess mounted rolling tpye LED square or round downlighter 12 Watts with 4/6W GU 10 LED Lamp Rib fabricated from Die cast Iron aluminium with white powder coated prewired to mains connector with suitable driver & having swiveling unit of aluminium die cast eye ball & LED lamp position retained by circular wire spring. 5years Warranty against any manufacturing defect working under standard electrical condition.	Each	8	1868.0	14944
7.4			11W Bulkhead				
7.5		PWD 2-2-5	Supplying and execting bulkhead fitting suitable for upto LED, upto 12W fixed	Nos.	3	221.0	663
7.6			70 W LED COB Downlighter for Extra high ceiling	Nos	4	5985.0	23940
7.7	4.37		Supplying of LED floodligt withW system power consumption pressure die cast aluminum housing with powder coating with IP 65 protection 1, 200-275V voltage with electronic driver, PF>0.9, should meet ANSI 2G vibration test, compliance to UL/CE with class I. System rating shall be 50K hrs @ Lumen maintenance of70% system efficiency>80I,/w. Over load & short circuit protection ensure relianble operation in spite of problem in output side. Compliance to IS 10322/IEC60598, LM 79 & LM 80 Adherence woth RoHS, UL approved MCPCB. Top acess street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. Light fixture with W system power consuption. LED efficiency > 130Im/W at 1W & fixture efficiency > 80Im/w with nominal CRI > 75. Luminiare manufasture should have in-house facility accreduted by NABL/CPRI & any government certified agency & design & development facility certified by ISO 9001:2008. Housing with supplier word mark / name shall be Engraved / Embossing on the die cast housing / body part. Warranty of 5 years against any manufacturing defect working under standard electrical conditions as				
7.7.1	4.37.1		LED Floodlight 60W	Nos	2	7129.0	14258
7.8			Supply,installation,testing & commissioning of LED weatherproof street light fixture suitable for mounting on suitable dia pipe at any angle between lateral(side entry) and vertical(top mounted), prewired with led driver for 240V, 50Hz single phase AC supply, compliant to IP 65 protection grade, and all other necessasary components and accessories to finish the job.	Nos.			
			40W LED light fixture	Nos.	40	2931	117240
	5.14		Fabricating, supply, erection ofmtr long hot dip galvanized Octagonal pole with BSEN 10025 grade S 355 jo steel plate shaft IS 2062 for base plate with door opening arrangement, including suitable boards, Backelite sheet and MCB as per IS specification and suitable to withstand wind speed of 47 m/sec formtr pole in single section and single joint welded as per IS 9595/IS 10178 AWS having dimension bottommm and top mm with 3 mm thick, suitable base plate and 4 nos of long J bolt along with templet and the pole shall be hot dip galvanized in single dipping with not less than 65 micron as per ASTM -A123 and 153 etc. excluding foundation as per drawing 7 meter- top 70 mm and bottom 130 mm dia (SOR Item No - 5.14, 5.14.1)				

S.No	Ref.	No.	Description of Item	Unit	QTY	Rate (Rs)	Amount
	<b>SOR</b> 5.14.5	PWD	7 meter - Top 70mm and bottom 130mm dia	Nos.	40	12420	496800
	0.11.0		·	1400.	10	12 120	100000
	5.18		Supplying and fixing of hot deep Galvanized M.S.Bracket suitable for outdoor luminaries and mounted on Octogonal pole using necessary bolt, nuts etc., complete.				
	5.18.1		Single arm Bracket with 1000mm standard 40/50mm dia	Nos.	40	1919	76760
7.9			Bollard Lights				
			Supply,installation,testing & commissioning of LED Bollard lights prewired with led driver operated on 240V, 50Hz single phase AC supply, compliant to IP 66 protection grade and with all other necessasary components and accessories to finish the job.				
7.9.1			(For GardenLighting) 10 - 12W LED light fixture	Nos.	34	2205	74970
			io izii zzo igit intaio	. 100.	0.		
			Total Cost of Light Fixture (Rs.)				12,33,317
8			Point Wiring, Switch Sockets & Accesories				
			Total Willings Wilder Control of Accounts				
8.1	1		OPEN CONDUIT SYSTEM				
	1.1		Supply heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using intverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws				
8.1.1	1.1.2		25mm dia 2mm thick	Mtr	200	70.0	14000
8.1.2	1.1.3		32mm dia 2.5mm thick	Mtr	100	100.0	10000
8.2	1.2		Supply heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends shoild be covered using PVC and enclosures, run with 18SWG GI fish wire wherever necessary				
8.2.1	1.2.2		25mm dia 2mm thick	Mtr	100	57.0	5700
8.2.2	1.2.3		32mm dia 2.5mm thick	Mtr	100	90.0	9000
8.3	2		POINT WIRING USING COPPER WIRE				
	2.5		Wiring for light/power circuit using one of FRLS PVC insulated 1100V grade, multistanded copper with low conductor resistance single core in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP-A.				
8.3.1	2.5.2		1.5 sqmm	Mtr	2200	18.6	40920
8.3.2	2.5.3		2.5 sqmm	Mtr	1400	29.2	40880
8.3.3	2.5.4		4 sqmm	Mtr	1100	42.1	46310
8.4			SWITCH, SOCKESTS & ACCESSORIES				
J. /							
	3.5		Switch, socket, data & telephone points  Supply and flush mounting powder coated/ galvanised metal box suibale for mounting modular switch plated. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall				
8.4.1	3.5.1		1-3 Way	Each	31	91.0	2821
8.4.2	3.5.3		6 Way	Each	108	121.0	13068
8.5	3.6		Supply and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the the existing metal/PVC box				
8.5.1 8.5.2	3.6.1 3.6.3		1 to 3 Module 6 Module	Each Each	31 108	109.0 173.0	3379 18684
8.6	3.7		Supply and fixing of modular switch/ socket/ stepped electronic fan regulator/ dimmer/ telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293	Lacii	100	173.0	10004
8.6.1	3.7.1		6 amp one Way	Each	5	63.0	315
8.6.2	3.7.3		6 amp 3Way Socket	Each	5	95.0	475
8.6.3	3.7.7	-	16 Amp one way switch 6/16 Amps Universal Socket	Each	109	114.0	12426 16023
8.6.4 8.6.5	3.7.10 3.7.11		TV / Telephone Socket	Each Each	109 26	147.0 82.0	2132
8.6.6	3.7.12		RJ45/IO Outlet	Each	26	204.0	5304
		<u> </u>	Page 88				

S.No	Ref.	No.	Description of Item	Unit	QTY	Rate (Rs)	Amount
	SOR	PWD			_	Rate	
	SUR	PWD					
			Total Cost of Point Wiring, Switch Sockets & Accesories(Rs.)				2,41,437
			<u> </u>				
9			Earthing				
			OL FARTUNO.				
			GI EARTHING			1	
9.1		DSRE 5.2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	Each	14	5308.0	74312
9.2		DSRE 5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	2	11794.0	23588
9.3		DSRE 5.9	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Metre	500	131.0	65500
9.4		DSRE 5.8	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	Metre	40	853.0	34120
9.5	7.22		Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit sysytem of wiring) using necessary suitable size clamps, nails, guttas/spacers, etc.				
9.6	7.22.3		GI wire 8 SWG	Mtr	150	19.5	2925
9.0	1.22.3		0 0000	IVILI	150	19.5	2320
			Total Cost of Earthing(Rs.)				2,00,445
			Total Cost of Electrical Services(Rs.)				29,45,636
			Total Cost of Electrical Services(RS.)				29,45,656

OPERATION AND MAINTENANCE FOR 2 YEARS					
YEAR	O and M	Remarks			
First Year (Electrical +PAS+FAS)	33168	Consider 1% of total electrical cost			
Second Year (Electrical +PAS+FAS)	35158	Consider 6% on First Year Cost			
GRAND TOTAL	68,325				

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Executive Engineer  MSCL Mangaluru	General Manager Technical MSCL Mangaluru

# **PUBLI ADDRESSABLE SYSTEM AND ACCESSORIES**

Item	Description	Unit	Qty.	Unit	Price (Rs)	
				Rate	Amount	
	PUBLI ADDRESSABLE SYSTEM AND ACCESSORIES					
2.0	Supply, Installation, testing and commissioning of <b>6W Ceiling Speaker</b> with max 1M/1W 96DB . Frequency response of 80Hz-20KHz with a dispersion angle of 160 deg.	No	13	1780	23,140	17.3.3 - DSRE
3.0	Supply, Installation, testing and commissioning of 15W Wall mount Horn Speaker	No	2	10132	20,264	17.3.8 - DSRE
4.0	Supply, Installation, testing and commissioning 2Core, 1.5 sq. mm Screened Multi-Stranded, Bare Copper Conductor, PVC Insulated cable as per IS 694-1990		350	51	17,850	17.5.3.1 - DSRE
5.0	Supplying heavy gauge PVC conduit pipe below mention mm dia and thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc. and running before concreting the slab. The conduit should be	NAtr	200	70	14,000	1.1.2 - DSRE
	Total Carried to Summary				75,254	

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#### **FIRE ALARM SYSTEM**

	Item Description Unit Qty. Rate Amount							
	PWD SOR Sr.No.	Banglore SOR Sr.No.	CPWD SOR Sr.No.	FIRE ALARM AND DETECTION SYSTEM	J.116	2.31	. ruto	iouiii
				Supply, installation, testing and commissioning of following as per specifications and Drawing:				
1			17.2.13	Supplying, installation, testing & commissioning of intelligent addressable duct detector including suitable Photo detector complete with base as required.	Nos.	25	7801	195025
2			17.2.5	Supplying, installation, testing & commissioning of response indicator on surface/recessed MS Box having two LED, metallic cover complete with all connections etc as required.	Nos.	7	263	1841
3			17.2.9	Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed tempreature thermistor complete with base as required.	Nos.	1	2713	2713
4			17.2.14	Supplying, installation, testing & commissioning of addressable manual call point complete as required.	Nos.	3	3859	11577
5			17.2.6	Supplying, installation, testing & commisssioning of intelligent addressable programmable sounder complete as required.	Nos.	3	2638	7914
6			17.2.16	Supplying, installation, testing & commissioning of addressable strobe complete as required.	Nos.	3	3354	10062
7				Supplying and fixing of following sizes of PVC conduit alongwith the accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
8		1.3.2		Supplying and erecting UPVC conduit 25 mm in dia. conforming to I.S. with required number of couplings, PVC bushes, check nuts etc. complete.	RM	300	58	17400
9			17.5.2	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath complete as required.	RM	350	141	49350
				Total Carried to Summary				2,95,882

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	Summary For HVAC, PHE & FF Services for UPOR Project							
Sr. No.	Description	Estimated Rate (Rs.)	Operation & Maintanance cost for 2 years					
1	HVAC	9,53,093	75,000					
2	PHE	7,27,049	48,000					
3	FF	23,940	18,000					
	TOTAL COST (Rs)	17,04,082	1,41,000					
	Taxes will be additional							

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UPOR, Manglore Smart City								
	Bill Of Quantity For Fire-Fighting Services							
Sr. No.	Reference	Description of Items	Unit	Qty.	Supply and Installtion Rate	Supply and Installtion Amount		
1		Fire extinguisher						
	P.W.D (Manglore Circle) 2018-19 . SI No. 40.3	Supplying and erecting ABC Dry Chemical Powder type Fire extinguisher 4 kg capacity cartridge tyB with gun metal cap 150 gram CO2 gas cartridge powder and brackets conforming to IS 2171-1985 and complete erected with necessary clamps made from 50x6mm MS flat with nuts and bolts grouted in wall complete	Nos.	5	4788	23,940		
	Total Cost of Fire Fighting Services (Rs)					23,940		

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#### Bill Of Quantity For PHE Services Supply and Sr Supply and **Description of Items** Unit Reference Qtv Installtion **Installtion Amount** Nο Rate SANITARYWARE & FITTINGS 1 Providing and fixing white vitreous china clay, water closet European P W D type (Pedestal type, P-trap) with black solid plastic seat and lid, C. P brass (Manglore Circle) 2018-19 hinges, rubber buffers. 10 litre low level, PVC flushing cistern (all are SI No. 12.5 approved make ) with fittings, C. I I M.S brackets, 40mm diameter flush 4956 39648 1.1 Nos 8 bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and rnaking good the wall and floor wherever required, including cost of materials, labour complete as per specifications. D.S.R 2018 Providing and fixing C.P. brass bib cock of approved quality conforming to (C.P.W.D) (Vol 2) 1.2 IS:8931 Item No. 18.49.1 15 mm nominal bore 8 418.95 Nos 3351.6 P.W.D CIVIL Providing and fixing Hand shower (health faucet) with 8mm dia, 1m long (Gov. of Maharashtra) 2018flexible tube having wall hook with approved make including necessary 8 1677 13416 Nos 19 sockets/ union nut etc. complete as directed by Engineer in charge. Item No. 48.29 Providing and fixing white vitreous china clay, flat back wash basin size P W D 550x400mm with a pair of15mm C.P brass pillar taps with C.I. I.M.S (Manglore Circle) 2018-19 1.4 brackets, 32 mm C. P. brass waste of standard pattern, painting of fittings SI No. 12.25 and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications size 550 x 400mm Nos. 8 3879 31032 BWSSB SOR 2016-17 Providing vitreous china clay toilet paper holder with a pack of papers as 1.5 414 3312 Nos. 8 Section 19 per specification SI No. 33 Market rate Supplying and fixing of UPVC WC connector (straight or bend type) with rubber lip ring. Including 110 mm dia UPVC pipe of required length and 1.6 8 864 6912 Nos proper connection complete as required. PWD Providing gun metal pillar cocks 15mm dia of I class conforming to ISI (Manglore Circle) 2018-19 1.7 specifications and fixing them in position as per directions including of cost Nos. 4 242 968 SI No. 13.80 of materials and fixtures and conveyance to spot Providing and fixing PTMT Waste Coupling for sink, of approved quality D.S.R. 2018 (C.P.W.D) (Vol 2) and colour. Waste coupling 31 mm dia of 79 mm length and 62mm breadth 1.8 Nos. 8 99.75 798 Item No. 17.69.1 weighing not less than 45 gms D.S.R 2018 Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & 1.9 (C.P.W.D) (Vol 2) Nos. 8 883.05 7064.4 make and as per the direction of Engineer-in-charge. Item No. 17.22A P.W.D Providing and fixing 600x450mm bevel Lead edge mirror of superior glass (Manglore Circle) 2018-19 1.1 with 6mm hard board backing and fixed to wooden cleats with C.P screws, 8 1157 9256 Nos. SI No. 12.39 washers, including cost of materials, labour complete as per specifications. BWSSB SOR 2016-17 1.1 Providing and fixing liquid soap glass dispenser and holder as per design. 8 145 1160 Section 19 SI No. 49.2 2 INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chorinated Poly-Venyl Chloride (CPVC) pipes P.W.D conforming to IS 15778, having thermal stability for hot and cold water (Manglore Circle) 2018-19 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 2.1 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.) SI No. 13.86.1 15mm nominal OD pipes Rmt 62 206 12772 20mm nominal OD pipes SI No. 13.86.2 Rmt 5 235 1175 SI No. 13.86.3 25mm nominal OD pipes Rmt 56 293 16408 SI No. 13.86.4 32mm nominal OD pipes Rmt 11220

UPOR, Mangaluru Smart City

Sr. No.	Reference	Description of Items	Unit	Qty	Supply and Installtion	Supply and Installtion Amount
2.2	P.W.D (Manglore Circle) 2018-19	Providing and fixing <b>gun metal wheel valve</b> conforming to IS specification of approved make as per directions including all lead and lift etc., complete.				
	SI No. 13.79.1	15mm dia	Nos.	2	395	790
	SI No. 13.79.2 SI No. 13.79.3	20mm dia 25mm dia	Nos.	2 12	414 447	828 5364
	SI No. 13.79.4	32mm dia	Nos.	12	486	5832
	SI No. 13.79.5	40mm dia	Nos.	8	562	4496
	SI No. 13.79.6	50mm dia	Nos.	4	734	2936
					0	0
2.3	C.P.W.D, D.S.R & A.O.R 2019, For Wet Riser & Sprinkler System Code No. 11	Supplying, fixing, testing and commissioning of <b>butterfly valve</b> of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required:				
		40 mm	Set	_	3509	0
		50 mm	Set	6	3671	22026
		65 mm	Set	1	4149	4149
2.4	C.P.W.D, D.S.R & A.O.R 2019, For Wet Riser & Sprinkler	Providing, installation, testing and commissioning of <b>non-return valve</b> of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required:  40 mm	Set		5646	0
	System Code No. 14	50 mm	Set	4	2800	11200
2.5		Providing, installation, testing and commissioning of Gun metal <b>Y-strainer</b> fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm				
	Market rate	50 mm	Each	2	3200	6400
2.6	P.W.D ELECTRICAL (Gov. of Maharashtra) 2018- 19 Item No. 13-7-14	Supplying and installing <b>pressure gauge</b> of 100 mm dia., 0-300 PSI or 0-14 kg per cm square fitted with 12/15 mm dia. pad cock valve, and G.I. pipe, elbow etc. complete as per specification no. FF-FFA/PG	Each	2	657	1314
2.7	P.W.D (Manglore Circle) 2018-19	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.				
	SI No. 13.42	25 mm dia nominal	Nos.	5	513	2565
2.8	P.W.D (Manglore Circle) 2018-19 SI No. 40.89	Supplying Installing, testing and commissioning of Gun metal <b>AIR RELEASE VALVE</b> SIZE OF <b>25mm</b> dia including cost of materials, labour, HOM complete as per specifications.	Nos.	4	1875	7500
		Providing & fixing PVC Vent Cowl				
		110 mm	Nos.	2	450	900
		65 mm	Nos.	2	320	640
3		EXTERNAL WATER SUPPLY SYSTEM				
3.1	P.W.D (Manglore Circle) 2018-19	Providing and fixing in trenches <b>galvanised IS 1239 C classpipe</b> nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications.				
	SI No. 13.15	50 mm dia	Rmt	22	388	8536
3.2	P.W.D (Manglore Circle) 2018-19 SI No. 13.22	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 and testing complete as per specifications.	Set	1	1320	1320
		INTERNAL PRAINAGE OVETTI				
4	Market Rate	INTERNAL DRAINAGE SYSTEM				
4.1	ivialiket iralle	Providing and fixing SWR <b>pipes</b> 6 kg/sq.cm B class working pressure with pipe fittings, support, including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications. IS 13592	D1	25	750	40750
		do- with 110mm outer dia do- with 160mm outer dia	Rmt Rmt	65 50	750 1150	48750 57500
		ao wili 100mm outer dia	ixiiit	30	1130	37300
###	Market Rate	Providing and fixing SS Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M15 as directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).				
		12.5 cms x 7.5 cms	Each	4	1120	4480

Sr. No.	Reference	Description of Items	Unit	Qty	Supply and Installtion	Supply and Installtion Amount
4.3	Market Rate	Supplying & Fixing in position 100 mm dia <b>UPVC Multi traps</b> 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.	9	1520	13680
4.4	Market Rate	Providing and fixing PVC Gully Trap as per specification				
		300 X 300	Nos.	3	1150	3450
5		EXTERNAL DRAINAGE SYSTEM				
5.1		Inspetion Chamber				
5.1	Market Rate	Constructing brick masonry inspection chamber internal dimensions 450x450mm, (clear inside dimension) for pipeline with three or more inlets, using table moulded non-modular bricks of class designation 50 in cement mortar 1•5, C. I cover with frame (Heavy duty) total weight of cover with frame to be not less than 125 kg ( weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. (Depth up to 600- 1500 mm)	Nos.	1	8900	8900
	Market Rate	Constructing brick masonry inspection chamber internal dimensions 450x900mm, (clear inside dimension) for pipeline with three or more inlets, using table moulded non-modular bricks of class designation 50 in cement mortar 1·5, C. I cover with frame (Heavy duty) total weight of cover with frame to be not less than 125 kg ( weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal , foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. (Depth up to 600- 1500 mm)	Nos.	6	12500	75000
5.2		Water Tank				
	P.W.D CIVIL (Gov. of Maharashtra) 2018- 19 Item No. 42.53	Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of high density polythyler and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet,outlet overflow pipe inclusive of all tanks capacity				
		Capacity- 5000 ltr	Unit	1	60000	60000
5.3	Market Rate	Pumps Supply, installation, testing & commissioning of Submersible pumps (1 working ± 1 standby) with 10 mm thick solid handling capacity. C.I body with built in strainer & SS 304 impeller, coupled to motor suitable for operation on 430 V 3 pH 50 Cycle A/C power supply and lifting arrangement including complete as required.				
		Automatic Electric control panel with change over switch, relays, electrical wiring, cabling from panel to pumps, level controller complete with all accessories as per manufacturer specifications				
		Accessories like NRV's valves on discharge and valve and strainer in suction line, header for suction and delivery side, required cut pieces of pipes, fittings, flanges, pressure gauge, base frame and concrete foundation complete as required.				
		Flow rate : 3 LPS (1 Working +1 Standby)	Nos.	2	105000	210000
		Head : 35 Mts Purpose : Water Transfer from UGT to OHT				
		Location : Underground Tank				
		Total Cost of PH	7,27,049			

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#### **UPOR, Manglore Smart City Bill Of Quantity For HVAC Services** Supply and Supply and Sr. Installtion Reference **Description of Items** Unit Qty. Installtion No. Amount Rate 1 Variable Refrigerant Flow system 1.1 VRF UNIT Supply, Installation, Testing & Commisioning of modular type Variable Refrigerant Volume Air Cooled Outdoor Units suitable for cooling and heating, having all hermetically sealed inverter type scroll compressor, minimum two compressors for above 14HP modules, microprocessor based controller, top discharge type condensing DSR VRF/VRV units, with R 410A refrigerant, vibration isolators with suitable Air Conditionina foundation etc. complete as required. The unit shall deliver the rated capacity at AHRI Conditions & work even at 50 ° C ambient 2019 (CPWD) temperature without tripping. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. The unit shall be filled with first charge of refrigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and EER not less than 6.5. Item No. 1 10 HP outdoor unit Nos. 1 164150 164150 Supply, installation, testing and commissioning of following minimum capacity 4 way flow VRV/VRF Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multi speed motor, coil section with DX Copper coil, electronic expansion DSR VRF/VRV valve, outer cabinet, drain pump, grill, necessary supports, vibration 1.2 Air Conditioning isolation, cordless remote controletc., suitable for operation on single 2019 (CPWD) phase 230V±10%, 50HzAC supply, complete, as required. The units shall have automatic force shutdown provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27Degree C DB and 19 Degree C WB temperature. Item No. 2.6 Nos. 4 31453 125812 2.4 TR Supplying, installing, testing and commissioning split type variable Government of speed inverter technology room Air conditioning unit 2 TR capacity Maharashtra having ISEER minimum 4.50 suitable to operate on 250V, 50 cycles, P.W.D(Electrical A.C. supply having 1 no. of air handling unit hi-wall/ floor mounting 1.3 Nos. 2 62944 125888 Wing) C.S.R type complete with Refrigerants R410 A /R32 and copper condenser 2018-19. at position. specification no. Item No. 3-2-7 APAC/ SAC Supplying, installing, testing and commissioning split type variable Government of speed Inverter technology room Air conditioning unit 1.5 TR capacity Maharashtra having ISEER minimum 4.50 suitable to operate on 250V, 50 cycles, P.W.D(Electrical 1.4 Nos. 51676 51676 A.C. supply having 1 no of air handling unit hiwall / floor mounting Wing) C.S.R type complete with refrigerant R410 A/R32 and copper condensor at 2018-19 position. specification no.APAC/SAC Item No. 3-2-9 Supply, installation, testing and commissioning of copper conductor 1.5 Market Rate 2C\*1.0 sgmm Control cabling with PVC conduit from indoor to 312 12480 Rmt 40 outdoor unit. Refnets for VRV System (To be supplied by unit manufacturer) 2550 7650 1.6 Market Rate Vendor is expected to minimise no. of joints that is required for a Nos. 3 complete installation.

Sr. No.	Reference	Description of Items	Unit	Qty.	Supply and Installtion	Supply and Installtion Amount
1.7	Market Rate	Supply, installation, testing and commissioning of interconnecting Copper Refrigerant piping between indoor and outdoor unit of VRF system along with Insulation & all accessories like, T, Bend, Elbows. Piping shall be properly Clamped / Installed on Ceiling / Wall by providing GI angle, bracket, threaded support, nut, washer etc., complete piping shall be pressure tested. Insulation of Refrigerant Piping shall be with 19 mm thick nitrile rubber Thermal Insulation. All joints shall be ceiled with good quality adhesive. All piping inside the room will be properly supported with hanger and all external pipe with proper supports and fittings				
		Final sizes ,of Copper Piping sizes shall be as per selected OEM's Requirement . HVAC Contractor shall prepare the shop drawing for				
		Cu Piping Scheme ,which would require final approval from Consultant / Architect ,prior to procurment & execution .				
		SUCTION LINE	Rmt	60	1202	72120
		LIQUID LINE	Rmt	60	847	50820
1.8	Market Rate	Supply, installation, testing and commissioning of <b>drain piping</b> using UPVC pipe SCH40 with UPVC fittings and insulated with 6mm thick nitrile rubber o class insulation finished with polished. The pipe goes below ground should be rapped with polythene sheet as follows:				
		40 mm Dia	Rmt	13	447.2	5634.72
		32 mm Dia	Rmt	22	343.2	7481.76
		25 mm	Rmt	21	215	4515
2		CABLE TRAY/ SUPPORTS/ ENCLOSURE / SLEEVES FOR / REFRIGERANT PIPING / CABLING				
2.1	D.S.R (E & M) 2018 (C.P.W.D)	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.				
	Item No. 4.6.6	450 mm width X 50 mm depth X 2.0 mm thickness	Rmt	32	1213	38816
	Item No.4.6.4	300 mm width X 50 mm depth X 1.6 mm thickness	Rmt	8	875	7000
	Item No. 4.6.3	225 mm width X 50 mm depth X 1.6 mm thickness	Rmt	28	811	22708
2.2	Market Rate	MS FRAME STRUCTURE  Supply, fabrication and installation of MS base frame for outdoor units complete with 2 coat of epoxy painting, vibration isolation pads, supports, hangers, railing, brackets etc. For construction  Construction as approved by Architect/ Consultant. Apply 2 coats of epoxy primer 2 coats of epoxy paint and finish painting as approved by Architect. Stand to be made as per site conditions.	Kg	8	265	2120
3		Ducting				
3.1	D.S.R (E & M) 2018 (C.P.W.D)	Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.				
	Item No. 16.12.1.1	Thickness 0.63 mm sheet (24 gauge)	Sqmtr.	50	983	49150
3.2	Market Rate	Supplying and erecting aluminium powder coated grill of suitable size for width length without collar dampers having matching colour with the existing false ceiling	Sqmtr.	2	1800	3600
3.3	Market Rate	Supply, installation, testing and commissioning of flexible duct 50 mm dia	Sqmtr.	8	884	7072

Sr. No.	Reference	Description of Items	Unit	Qty.	Supply and Installtion	Supply and Installtion Amount
3.4	Market Rate	Supply and Installation, testing, commissioing of Underdeck Insualtion with 25 mm thk Fire retardent Glass wool rigid boardcovered with R P tissue paper & 30 mm gauge perforated aluminium clading, density 80 kg/cu.m sheet all joints for fixing and GI screws	Sqmtr.	255	700	178500
4		VENTILATION SYSTEM FOR TOILET				
4.1	Market Rate	Supply and Installation, testing, commissioning of Propeller type wall mounted fan with louver, cowl and bird screen on outside.				
		50 cfm	Nos.	6	1950	11700
4.2	Market Rate	Supply and Installation, testing, commissioning of axial type cabinet fresh air fan with cowl and bird screen on outside				
		300 cfm	Nos.	1	4200	4200
		Total Cost of HVAC Se	rvices	(Rs)		9,53,093

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# MANGALURU SMART CITY LTD Rate Analysis-Laterite Cladding

Rate Analysis-Laterii	-	9	1	
Descriptions	Unit	Quantity	Rate	Amount
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,scaffoldingetc. and complete.				
Details of cost for 1 sqm.				
MATERIAL				
25 mm thick Laterite tiles. Qty. = 1.00 Sqm +Add wastage @ 2.5% = 0.025 Sqm, Total = 1.025 sqm.	Sqm	1.025	1304	1336.6
25 mm thick laterite tiles				
Carriage of tiles	L.S	1.025	2	2.05
Adhesive	Kg	13.4375	18.5000	248.59
Polish-First Coat (Rs.600/Lit), 1lit covered 7.36 Sq m	Lit	1	81.52	81.52
Polish-Second Coat (Rs.600/Lit), 1lit covered 9.29 Sq m	Lit	1	64.59	64.59
LABOUR	Sqm	1	483.75	483.75
Sundries	L.S	16.9	2	33.8
TOTAL				2250.9
Add 1 % Water charges on "W"				22.51
TOTAL				2273.41
Add 10% CPOH on "Y"				227.34
TOTAL				2500.75
Cost for 1 sqm.				2500.75
Say				2500.75

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# Rate Analysis- Eco Loc Permeable Paver Block

Sr.No.	Description	Unit	Qty.	Rate	Amount	References
1	Providing and laying eco-loc permeable pavers,80mm or equivalent 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.					
Α	Details of cost for 10.00 sqm MATERIAL					
i	Interlocking C.C. paver block	Sqm	10	1554.63	15546.25	Basant Betons, Quotation
ii	Bedding layer - 50mm thick Coarse sand or crushed sand =10x0.050=0.50 cum	Cum	0.5	1700	850	KPWD III, Code No. 0731, Material rate-51
iii	Carriage of Coarse sand-25Km	Cum	0.5	80	40	
iv	Natural Sand (5.6 to 75 Micron)	Cum	0.15	1700	255	KPWD III, Code No. 0772, Material rate-54
V	Carriage of Coarse sand-25Km	Cum	0.15	80	12	
vi	Laying charges (Bassed on actual observation)					
В	LABOUR					
i	Mason (brick layer) 1st class	Day	0.5	466.2	233.1	KPWD ,Labour rate-89 Zone I
ii	Mason (brick layer) 2nd class	Day	0.5	456.2	228.1	KPWD ,Labour rate-90 Zone I
iii	Beldar (Mason Class - 1)	Day	1	456.2	456.2	KPWD ,Labour rate-13 Zone I
iv	Heavy Duty Mazdoor	Day	0.5	446.2	223.1	KPWD ,Labour rate-5 Zone I
	Total				17843.75	
	Add 1 % Water charges				178.4375	
·	Total				18022.19	
	Add 15 % Contractor's profit and overheads				2703.33	
	Cost for 10.00 sqm				20725.52	
	Cost for 1.00 sqm.				2072.552	
	Say				2073	

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# Rate Analysis-Taking out paver block

Sr.No.	Description	Unit	Quantity	Rate	Amount	Reference			
1	_	l of rubbis payment	h etc., dispo shall be ma	sal of uns de separa	serviceable mate ately and stackir	•			
	Details of cost for 10 sqm.								
а	Labour								
b	Beldar	Day	0.25	446.2	111.55	KPWD 18-19 SOR, Pg No.LVI SI No.5			
С	Collie	Day	1	446.2	446.2	KPWD18-19 SOR, Pg No.LVI,SI No.6			
d	Sundries	LS	2.7	1.73	4.67	CPWD Pg No 29,			
	Total				562.42				
е	Add 1% Water C	harges			5.62				
	Total				568.04				
f	Add 10 % Contra	ctor's prof	it		56.8				
g	Add 10 % Contra	ctor's ove	rheads		56.804				
	Cost of 10 sqm				681.644				
	Cost of 1 sqm				68.16				

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## Rate Analysis - Granular Sub Base under Paver Block

Sr No	Ref. to MoRTH Spec.		Description	Unit	Quantity	Rate Rs	Cost Rs	Remarks/ Input ref.
4.1	401		Granular Sub-Base with Close Graded Material (Table:- 400-1)					
		Α	Plant Mix Method					
			Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401					
			·					
			Unit = cum					
			Taking output = 225 cum (450 tonne) a) Labour					
			Mate	day	0.4	395	158	SI.No.12,Page No.LIV,
			Mazdoor skilled	day	2	446.2	892.4	SI.No.6,Page No.LIV,
			Mazdoor	day	8	446.2	3569.6	SI.No.6,Page No.LIV,
			b) Machinery			000	0000	1000
			Wet mix plant @ 60 tonne capacity per hour	hour	3		2880	1028 1321
			Electric generator 100KVA	hour	6	534	3204	1321
			Water tanker 6 KL capacity 5 km lead with one trip per hour	hour	4.5	51.5	231.75	
			Front end loader 1 cum bucket capacity	hour	6	593	3558	1012
			Tipper 10 tonne	tonne.k m	450 x L	4	28800	
			Add 10 per cent of cost of carriage to cover loading and unloading				2880	
			Motor Grader 110 HP	hour	6	2125	12750	
			Plate Compactor	Day	1	254	254	SI.No.65,Page No.XXXXVIII
			c) Material Close graded Granular sub-base Material as per table 400-1					
			For Grading-II Material				_,	M 042
			53 mm to 9.5 mm @ 50 per cent	cum	144	1460	210240	M-013
			9.5 mm to 2.36 mm @ 20 per cent	cum	57	1340	76380	M-017
			2.36 mm below @ 30 per cent	cum	86.4	1150	99360	
		<b></b>	Cost of water	KL	27	40	1080	Page No.V,SI.No.758
4.1A		(i)	Rate per cum for grading-II Material				44000 70	
			d) Overhead charges @ 10% on (a+b+c)				44623.78 49086.15	
			e) Contractor's profit @ 10% on (a+b+c+d)  Cost for 225 cum = a+b+c+d+e				49086.15 539947.7	
			Rate per cum = (a+b+c+d+e)/225				2399.767	
						say		

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## RATE ANALYSIS OF REFIXING THE EXISTING STRUCTURAL STEEL (ROOF TRUSS)

Sr.No.	Description	Unit	Quantity	Rate	Amount					
1	Refixing the existing Structural steel (Roof Truss) work riveted, bolted or welded in built up sections, trusses andframed work, including cutting, hoisting, fixing in position and applying a primingcoat of approved steel primer all complete									
	20 mm dia holding down bolts	Quintile	0.0529	5500	290.95					
	Carriage of Steel tonne 0.415 92.24 38.28 (0.160+0.053+0.091 +0.099+0.007+0.005)=0.415 tonne LABOUR	Tonne	0.415	92.24	38.28					
	Fitter (grade 1)	Day	2.7	487	1314.90					
	Blacksmith 2nd class	Day	3.6	448	1612.80					
	Skilled Beldar (for floor rubbing etc.)	Day	5.4	407	2197.80					
	Beldar	Day	3.6	368	1324.80					
	Bandhani	Day	0.44	407	179.08					
	Applying priming coat-T.lron 9.5x0.4 = 3.80sqm.+ Struts 2.70x0.16 = 0.43sqm.+ Ties 5.4x0.124 = 0.67sqm.+ Braces 2x1.84x0.12 = 0.44 sqm.+ Ties 2.8x0.12 = 0.34 sqm Total = 5.68 sqm.									
	Rate as per item no 13.50.3 of SH : Finishing	Sqm	5.68	29.1	165.29					
	Sundries L.S. 80.73 1.73 139.66	LS	80.73	1.73	139.66					
	TOTAL				7263.56					
	Add 1 % Water charges				71.24					
	TOTAL				7334.80					
	Add 10 % Contractor's profit and overheads				719.51					
	Quantity of net steel (151.95+50.65+180.95+6.5+5.04) = 395.09 kg= 3.95 quintal									
	Cost for 3.95 quintal				8054.31					
	Cost of per kg.				20.39					
	Say				20.4					

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# Rate Analysis -Fixing G S Sheet

Sr.No.	Description	Unit	Quantity	Rate	Amount
1	Fixing corrugated G.S. sheet roofing including vertical / curved s nuts 8 mm diameter with bitumen and G.I. limpet washers or wit coat of approved steel primer and two coats of approved paint o horizontal/ vertical or curved surfaces), excluding the cost of pur shape wherever required.	h G.I. limpet n overlappin	washers filled washers con	38  115  32  38  115  35  30  1.73  1.73  487  448  368  65  1.73  448  368  1.73  1.73  448  368  1.73  1.73	, including a ny pitch in
	Carriage of G.I. Sheet and accessories G.I. Seam bolts and nuts 60cm centre to centre zig-zag i.e 30cm centre to centre straight. Breadth is 5.1metre . No. Of bolts in one lap 5.1/0.3=17 Nos. 2x26(laps) x17nos = 884 nos	tonne	2.326	92.24	214.55
	Galvanised steel bolts & nuts 6mm dia and 25mm long round head with slots G.I., J or L hooks 8mm dia. (No. Of purlins to be used 5 on either side) 2x5x27	10 nos.	88.4	38	3359.20
	Galvanised steel J or L hooks 8mm dia	10 nos.	81	115	9315.00
	G.I. Limpset washer (total of seam and J bolts) 884+810=1694	100 nos.	16.94		592.90
	Bitumen washer	100 nos.	16.94	30	508.20
	Carriage of bolts and washers	LS	26.91	1.73	46.55
	Sundries	LS	53.82	1.73	93.11
	Labour				
	Mistry	Day	1.3	487	633.10
	Carpenter 2nd class	Day	15.5	448	6944.00
	Beldar	Day	15.5	368	5704.00
	Red oxide Zinc chromite primer	Liters	2.53	65	164.45
	Carriage of material	LS	0.52	1.73	0.90
	Painter	Day	1.13	448	506.24
	Coolie	Day	1.13	368	415.84
	Brushes, sand papers i/c sundries	LS	50.57	1.73	87.49
	Roofing paint for iron sheets in red colour	Liters	3.73	120	447.60
	Carriage of paint	LS	6.76	1.73	11.69
	Painter	Day	2.53	448	1133.44
	Coolie	Day	2.53	368	931.04
	Brushes and sandpapers	LS	31.98	1.73	55.33
	Sundries	LS	38.09	1.73	65.90
				Total	31230.52
	Add 1% Water Charges				312.31
	<u> </u>			Total	31542.83
	Add Contractor Profit @10%			. 3.0	3154.28
	Cost of 184.518 Sqm			Total	34697.11
	Cost of 1 Sqm.			10101	188.04
	Say				188.00

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#### Rate Analysis for Jacketing of Column

Sr.No.	Description	Cum	No.	L	В	D	Qty.	Rate	Amount
1	KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications.  KSRRB M200-13.1. do- II. By Mechanical Means. A. Cement Concrete Grade M-15 & M-25.	Cum	1	1.83	0.04	3.6	0.26	390	101
2	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 aggregtes @ 0.47cum, with super plasticisers@ 3 liters confirming to IS 9103-1999 reafirmed-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,SI No.4.10,Pg.No.14)								
	New Column Concrete	Cum	1	0.43	0.58	3.6	0.89784		
	Existing Column Concrete Size after Chipping of Cocrete Cover of 40mm,0.15x0.3m	Cum	-1	0.15	0.3	3.6	-0.162	6431	4750
4	KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for <b>columns</b> , pillars, post and struts, square I rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.32,Pg.No.16)	Sqm	1	2	2.02	3.6	7.27	456	4759 3315
5	KSRRBM 2800-11. Epoxy bonding of new concrete to old concrete including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 2805	Sqm	1		0.9	3.6	3.24	573	1857
								Total	10032
	Sundries @ 5% of total Cost								501.6
	Cost for 0.74 Cum								10533.6
	Cost for 1 Cum of Concrete								14234.59

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## Name of the Work :- Mangalore Smart City

## 1.0 BOQ of UPOR UGT-Civil Work

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
1.00	Earth work excavation for foundation of structures upto 3 mtrs. by mechanical means as per drawing and technical specification, including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilising I transporting the remaining earth upto 1.00km lead. including cost of labour, materials and HOM etc., complete. do-In all types of soils (KPWD 18-19,SI No.2.23.1,Pg.No.8)	Cum	28.25	57.20	1,616	
2.00	Earth work excavation for foundation of structures upto 3 mtrs. by mechanical means as per drawing and technical specification, including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilising I transporting the remaining earth upto 1.00km lead. including cost of labour, materials and HOM etc., complete.do- Soft rock/ordinary rock (without blasting) (KPWD 18-19,SI No.2.23.2,Pg.No.8)	Cum	9.42	73.70	694	
3.00	Earthwork in excavation for foundation of structures by Mechanical means as per drawing and technical specification including setting out construction of shoring, strutting, barricading, danger light, bracing, removal of slumps and other deterious 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. (Depth upto 3m).  Hard Rock-Any rock Excavation by using mechanical plants/machinary (KUWSDB 2019)	Cum	9.42	744.70	7013	
4.00	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 2.9 (KPWD 18-19,Sl.No.2.10,Pg No.7)	Cum	9.54	221.10	2,110	
5.00	KSRB 2.8 : Providing and <b>Filling in foundation with granite</b> / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS (KPWD 18-19,Sl.No.2.15,Pg.No.7)	Cum	3.83	2795.10	10,697	
6.00	KSRB 4-1.6; Providing and laying in position <b>plain cement concrete</b> of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (KPWD 18-19,SI No.4.6,Pg.No.13)	Cum	2.21	6490.00	14,320	
7.00	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 aggregtes @0.47cum, with super plasticisers@ 3 liters confirming to IS 9103-1999 reafirmed-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,SI No.4.10,Pg.No.14)	Cum	5.39	6817.80	36,772	
8.00	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 confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 ems 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, lintles, 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, 4.6 (KPWD 18-19,SI.No.4.12,Pg No.14)	Cum	9.32	7074.10	65,906	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
9.00	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of <b>form work for foundations</b> , footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications.  Specification No. KBS 4.6.2 (KPWD 18-19,SI.No.4.28,Pg No.16)		5.88	289.30	1,701	
10.00	KSRB 4-6.4: 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. Specification No. KBS 4.6.2		54.00	397.10	21,443	
11.00	KSRB 4-6.2: Providing and removing centering, shuttering, strutting, propping etc., and removal offormworkfor suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications.  Specifications No. KBS 4.6.2		11.20	448.80	5,027	
12.00	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 I 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 complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500 (KPWD 18-19,Sl.No.4.46.2,Pg No.18)		1.77	77860.20	1,37,439	
13.00	Providing fusion bonded epoxy coating not less than 175 microns thickness and upto 300 microns to reinforcement of all diameters as per IS: 13620-1993 including testing of coating at plant The rate is inclusive of cost on account of careful handling, PVC coated binding wire instead of GI Binding wire, touch up material supplied by coating agency, repair work, loading, unloading and straightening of bent rods etc., complete as per specification and as directed by the Engineer in charge.  do For 10mm to 16mm dia bars	MT	1.77	11588.50	20,456	
14.00	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications.  (KPWD 18-19,SI.No 15.103.Pg No.127)	Sqm	18.25	374.00	6,826	
15.00	KSRB15-3: Providing 15mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required srnooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.  KSRB15-3.5: -do - cement mortar 1:4	Sqm	39.86	244.20	9,733	
16.00	Providing and fixing food grade epoxy painting to over head tank,under ground tank and sump tank after cleaning and drying including pumping and bailing out of water, including cost of all materials labour lead and lifts etc., complete (KPWD 18-19,SI.No.10.6,Pg.No.69)	Sqm	48.66	96.80	4,710	
17.00	Waterproofing of RCC Terrace I podium slab I toilet I utilities I water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids, cracks I construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 040 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 silanollinear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic I styrene I butadiene & cement in the ratio of 1:0.1, @ 0.50kglsqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification (KPWD 18-19,SI.No.10.5.1,Pg.No.69)	Sqm	11.25	578.60	6,509	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
18.00	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20 mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge.  Using rough Kota stone (CPWD 2019,22.2)	Sqm	43.07	1738.00	,74,856	
19.00	Providing and fixing in position pre-cast <b>R.C.C. manhole cove</b> r and frame of required shape and approved quality.HD-20 Circular shape 600 mm internal dia. (CPWD 19,19.19.4.1)	Nos.	1.00	1,471.50	1,472	
20.00	Providing M.S. foot rests including fixing in RCC tank with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :  With 20 mm diameter round bar (CPWD 19.15.2)	Nos.	9.00	383.70	3,453	
21.00	Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km Item No 17.4 KSRRB M100-4.1-Earth	Cun	37.54	90.86	3,411	
			Total		4,36,164	

Assistant Executive Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

# Name of the Work :- Mangalore Smart City 1.1 Measurement Sheet of UPOR-UGT Civil Work

	1.1 Measurement Sheet of UF	OK-UGT	T VIII VVOIK				
Sr. No.	Description	Unit	No's	L	В	н	Qty.
	Earth work excavation for foundation of structures upto 3 mtrs. by mechanical means as per drawing and technical specification, including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilising I transporting the remaining earth upto 1.00km lead. including cost of labour, materials and HOM etc., complete. do-In all types of soils (KPWD 18-19,SI No.2.23.1,Pg.No.8)						
	IIC tonk						
	UG tank Foundation	Cum	1	5.5	3.5	2.18	41.97
	Sump	Cum	1	2.5	1.6	1.28	5.12
	Cump	Cum		2.0	1.0	Total	47.09
1	Consider 60% Qty in Soil	Cum					28.25
2	Consider 20% Qty in Soft Rock	Cum					9.42
3	Consider 20% Qty in Hard Rock	Cum					9.42
4	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 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)						
	Total Excvation	Cum	1	47.09			47.09
	Foundation & Sump Drop wall Vol	Cum	-1	5.39			-5.39
	Vol of Tank	Cum	-1	4.0	2.0	1.8	-14.40
	Sump Vol	Cum	-1	2.0	1.0	0.6	-1.20
	Concrete Vol-Wall and Slab	Cum	-1	9.32			-9.32
	Soling Vol	Cum	-1	3.83			-3.83
	PCC	Cum	-1	2.21			-2.21
	Tank Sump vol	Cum	-1	2.0	1.0	0.6	-1.20
		Cum				Total	9.54
5	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS (KPWD 18-19,SI.No.2.15,Pg.No.7)  Soling	Cum	1	5.2	3.2	0.23	3.83
	Johns	Cum	-	5.2	3.2	Total	3.83
		Ouiii				Total	3.03
6	KSRB 4-1.6; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (KPWD 18-19,SI No.4.6,Pg.No.13)						
	UG tank						
	Foundation	Cum	1	5.2	3.2	0.1	1.66
	Drop portion	Cum	1	2	0.6	0.1	0.12
<del>                                     </del>	Triangular Portion	Cum Cum	1	2	0.2	21125 <b>Total</b>	0.42 <b>2.21</b>
		Juili				iotai	£.£ I
7	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 aggregtes @0.47cum, with super plasticisers@3 liters confirming to IS 9103-1999 reafirmed-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,SI No.4.10,Pg.No.14)						

Sr. No.	Description	Unit	No's	L	В	н	Qty.
	UG tank	Cum	4	4.0	2.0	0.05	4.07
	Foundation Sump Drop wall portion	Cum Cum	1	4.9 2.0	2.9 0.35	0.35 0.6	4.97 0.42
	Sump Drop wan portion	Cum		2.0	0.33	Total	5.39
	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 aggregtes @ 0.47cum, with super plasticisers @ 31ts						
	confirming to IS9103-1999 Reaffirmed-2008, machine mixed,						
	concrete laid in layers not exceeding 15 ems thick, vibrated for all						
•	works in ground floor level for roof slabs, staircase, lintels and beams						
8	retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintles, 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, 4.6						
	(KPWD 18-19,Sl.No.4.12,Pg No.14)						
	( is is,ee						
	Longwall	Cum	2	4.5	0.25	1.8	4.05
	Shortwall	Cum	2	2.0	0.25	1.8	1.80
	Sump Shortwall	Cum	2	1.0	0.25	0.6	0.30
	Sump Longwall	Cum	1	2.0	0.25	0.6	0.30
	Haunches-Horizontal Longwall	Cum	2	4.5	0.15	0.15	0.20
	Haunches-Horizontal Shortwall	Cum	2	2.0	0.15	0.15	0.09
	Haunches-Vertical	Cum	4	1.8	0.15	0.15	0.16
	Sump Horizontal Haunches Longwall	Cum	2	2.0	0.15	0.15	0.09
	Sump Horizontal Haunches Shortwall	Cum	2	1.0	0.15	0.15	0.05
	Sump Vertical Haunches	Cum	2	0.6	0.15	0.15	0.03
	Top slab	Cum	1	4.5	2.50	0.2	2.25
		Cum				Total	9.32
	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,						
9	labour complete as per specifications.						
	Specification No. KBS 4.6.2						
	(KPWD 18-19,SI.No.4.28,Pg No.16)						
	UO (						
	UG tank	Sam	2	4.0		0.25	2.42
	Foundation-Long Side Foundation-Short Side	Sqm Sqm	2	4.9 2.9		0.35 0.35	3.43 2.03
	Drop Portion	Sqm	2	0.6		0.35	0.42
	Diop Foliion	Sqm		0.6		Total	5.88
		Sqiii				IOIAI	5.00
	KSRB 4-6.4 : 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,						
10	plinth cills and string courses cost of all materials, labour complete as						
	per specifications.						
	Specification No. KBS 4.6.2						
	Longwall	Sqm	4	4.5		1.8	32.40
	Shortwall	Sqm	4	2.0		1.8	14.40
	Sump Longwall-Outer Side	Sqm	2	2.0		0.6	2.40
	Sump Shortwall-Outer Side	Sqm	2	1.0		0.6	1.20
	Sump Longwall-Inner Side	Sqm	2	2.0		0.6	2.40
	Sump Shortwall-Inner Side	Sqm	2	1.0		0.6	1.20
-						Total	54.00
	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting,						
	propping etc., and removal offormworkfor suspended floors, landings,						
11	balconies and likes, thickness upto 200 mm including cost of all						
• •	materials, labour complete as per specifications.						
	Specifications No. KBS 4.6.2						
	Ton Slah	C~~	4	4.0	2.00		0.00
	Top Slab	Sqm	1	4.0	2.00		8.00
	Sides	Sqm	4	4.0	0.20	Tatal	3.20
						Total	11.20
	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work inc	ludina etro	i				
12	TOTAL T.O.Z. I TOVIGING T.W. I Steel Telliforcement for N.C.C. WORK INC.	idaniy sild	Concret	Kg/Cum	Kg		мт
14			e in Cum	Ng/Cuiii	Λy		IVII
	Foundation		5.39	120	647.22		0.65
	Wall and Slab		9.32	120	1118		1.12
			14.71	0.00	5	Total	1.77
	1	i		3.00			

Sr. No.	Description	Unit	No's	L	В	Н	Qty.
13	Providing fusion bonded epoxy coating not less than 175 microns thickness and upto 300 microns to reinforcement of all diameters as per IS: 13620-1993 including testing of coating at plant The rate is inclusive of cost on account of careful handling, PVC coated binding wire instead of GI Binding wire, touch up material supplied by coating agency, repair work, loading, unloading and straightening of bent rods etc., complete as per specification and as directed by the Engineer in charge.  do For 10mm to 16mm dia bars	MT	1.77				1.77
14	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications.  (KPWD 18-19,SI.No 15.103.Pg No.127)						
	Tank Wall Above GL Longwall	Sqm	2	4.5		0.5	4.50
	Tank Wall Above GL Shortwall	Sqm	2	2.5		0.5	2.50
	Tank Top Slab	Sqm	1	4.5		2.5	11.25
		Sqm				Total	18.25
15	KSRB15-3: Providing 15mm thick cement plaster in single coat with cement mortar 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.  KSRB15-3.5: -do - cement mortar 1:4						
	Тор	Sqm	1	4.5	2.50		11.25
	LongWall	Sqm	2	4.0	1.80		14.40
	ShortWall	Sqm	2	2.0	1.80		7.20
	Sump Long-sidewall	Sqm	2	1.0 2.0	0.60		1.20
	Sump Short-sidewall Add 10% Extra	Sqm		2.0	0.60		2.40 3.41
	Add 10% Extra					Total	39.86
						Total	33.00
16	Providing and fixing food grade epoxy painting to over head tank,under ground tank and sump tank after cleaning and drying including pumping and bailing out of water, including cost of all materials labour lead and lifts etc., complete (KPWD 18-19,SI.No.10.6,Pg.No.69)						
	UG Tank						
	Bottom	Sqm	1	4.0	2.00		8.00
	Top	Sqm	1	4.5	2.50		11.25
	LongWall ShortWall	Sqm Sqm	2 2	4.0 2.0	1.80 1.80		7.20
	Sump sidewall	Sqm	2	1.0	0.60		1.20
	Sump sidewall	Sqm	2	2.0	0.60		2.40
	Add 10% Extra						4.21
		Sqm				Total	48.66
17	Waterproofing of RCC Terrace I podium slab I toilet I utilities I water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks I construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates@ 040 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 silanollinear copolymer@ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic I styrene I butadiene & cement in the ratio of 1:0.1, @ 0.50kglsqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification (KPWD 18-19,SI.No.10.5.1,Pg.No.69)						
	UG tank top Slab	Sqm	1	4.5	2.5		11.25
		Sqm				Total	11.25

Sr. No.	Description	Unit	No's	L	В	н	Qty.
18	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20 mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge.  Using rough Kota stone (CPWD 2019,22.2)						
	Raft Base	Sqm	1	4.9	2.9		14.21
	Raft Side	Sqm	2	4.9	0.35		3.43
	Raft Side	Sqm	2	2.9	0.35		2.03
	LongWall	Sqm	2	4.9	1.5		14.70
	ShortWall	Sqm	2	2.9	1.5		8.70
						Total	43.07
19.00	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality.HD-20 Circular shape 600 mm internal dia.  (CPWD 19,19.19.4.1)	Nac	1				4.00
	tank top Cover	Nos.	1			Total	1.00 <b>1.00</b>
		NOS.				TOTAL	1.00
20.00	Providing M.S. foot rests including fixing in RCC tank with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design : With 20 mm diameter round bar (CPWD 19.15.2)						
	Tank Depth	Rm	1	1.8			1.80
	Foot Rest @200mm distance	Nos.	9				9.00
21.00	Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5 km Item No 17.4 KSRRB M100-4.1-Earth						
	Total Excavation	Cum	1		.09		47.09
	Refilling Qty.	Cum	-1	9.	54		-9.54
		Cum	1	1	D:	osal Qty.	37.54

Assistant Executive Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru

# 1.2 Rate Analysis for UPOR UGT,OHT and ETP

	Earth work excavation for foundation of structures upto 3 mtrs. It	y mechar	nical means as	per drawing and				
	technical specification, including setting out, providing shoring, sti	utting and	l bracing, remova	al of stumps and				
	other deleterious matter, dressing of sides and bottom, filling back							
1								
	and utilising I transporting the remaining earth upto 1.00km lea	a. incluair	ig cost of labou	r, materiais and				
	HOM etc., complete. do-In all types of soils							
	(KPWD 18-19,SI No.2.23.1,Pg.No.8)							
	Basic rate		52					
	Add 10% For area weightage (Mangalore City)		5.2					
	Add 10761 of area weightage (Mangalore City)	Rate		C				
		Rate	57.20	Cum				
	Earth work excavation for foundation of structures upto 3 mtrs. I	oy mechar	nical means as	per drawing and				
	technical specification, including setting out, providing shoring, sti	utting and	I bracing, remova	al of stumps and				
_	other deleterious matter, dressing of sides and bottom, filling back	the excav	vated earth to the	e extent required				
2	and utilising I transporting the remaining earth upto 1.00km lea							
	HOM etc., complete.do- Soft rock/ordinary rock (without blasting)	ig cost of labou	i, materials and					
	(KPWD 18-19,SI No.2.23.2,Pg.No.8)							
	Basic rate		67					
	Add 10% For area weightage (Mangalore City)		6.7					
		Rate	73.70	Cum				
		110.00						
		1						
	Earthwork in excavation for foundation of structures by Mechanica	l means a	s per drawing ar	nd technical				
	specification including setting out construction of shoring, strutting,							
3	of slumps and other deterious matter, dressing of sides and levelling	•						
3	required, utilising the available excavated earth locally for the work	etc.comp	lete.(Depth upto	3m).				
	Hard Rock-Any rock Excavation by using mechanical plants/mach	inary						
	(KUWSDB 2019)	,						
	(1.01.022.2010)							
	Basic rate		677					
	Add 10% For area weightage (Mangalore City)		67.7					
	3 3 \ 3 //	Rate	744.70	Cum				
		110100						
	KORD OO Filling available assessed a code ( available assessed )		formulations and					
		i sides of	ioundations upit					
	KSRB 2.3 : Filling available excavated earth (excluding rock) in	not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto						
	not exceeding 20 cms. in depth, compacting each deposited laye	r by ramm						
4	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as	r by ramm						
4	not exceeding 20 cms. in depth, compacting each deposited laye	r by ramm						
4	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9	r by ramm						
4	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)	r by ramm	fications. specifi					
4	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate	r by ramm	fications. specifications.					
4	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)	r by ramm per speci	fications. specifications. specifications. specifications. specifications.	cation. No. KBS				
4	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate	r by ramm	fications. specifications.	cation. No. KBS				
4	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate	r by ramm per speci	fications. specifications. specifications. specifications. specifications.	cation. No. KBS				
4	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)	r by ramm per speci	201 20.1 221.10	cation. No. KBS				
	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8 : Providing and Filling in foundation with granite / trap I	r by ramm per speci  Rate  proken me	201 20.1 221.10 etal 100mm. and	Cum  down size, with				
5	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8 : Providing and Filling in foundation with granite / trap I approved sand including hand packing, ramming, watering, including	r by ramm per speci	201 20.1 221.10 etal 100mm. and	Cum  down size, with				
	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate Add 10% For area weightage (Mangalore City)  KSRB 2.8: Providing and Filling in foundation with granite / trap I approved sand including hand packing, ramming, watering, including and lift. complete as per specifications. Specification. No. KB	r by ramm per speci	201 20.1 221.10 etal 100mm. and	Cum down size, with				
	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8 : Providing and Filling in foundation with granite / trap I approved sand including hand packing, ramming, watering, including	r by ramm per speci	201 20.1 221.10 etal 100mm. and f all materials an	Cum  down size, with				
	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate Add 10% For area weightage (Mangalore City)  KSRB 2.8: Providing and Filling in foundation with granite / trap I approved sand including hand packing, ramming, watering, including and lift. complete as per specifications. Specification. No. KB	r by ramm per speci	201 20.1 221.10 etal 100mm. and	Cum down size, with				
	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8 : Providing and Filling in foundation with granite / trap is approved sand including hand packing, ramming, watering, included and lift. complete as per specifications. specification. No. KB (KPWD 18-19,SI.No.2.15,Pg.No.7)	r by ramm per speci	201 20.1 221.10 etal 100mm. and f all materials an	Cum  down size, with				
	not exceeding 20 cms. in depth, compacting each deposited layer 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8: Providing and Filling in foundation with granite / trap I approved sand including hand packing, ramming, watering, including lead and lift. complete as per specifications. specification. No. KB (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate	Rate  oroken meing cost of S	201 20.1 20.1 221.10 etal 100mm. and f all materials an 2541 254.1	Cation. No. KBS  Cum  down size, with d labour with all				
	not exceeding 20 cms. in depth, compacting each deposited layer 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8: Providing and Filling in foundation with granite / trap I approved sand including hand packing, ramming, watering, including lead and lift. complete as per specifications. specification. No. KB (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate	r by ramm per speci	201 20.1 20.1 221.10 etal 100mm. and f all materials an	Cation. No. KBS  Cum  down size, with d labour with all				
	not exceeding 20 cms. in depth, compacting each deposited layer 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8: Providing and Filling in foundation with granite / trap I approved sand including hand packing, ramming, watering, included and lift. complete as per specifications. specification. No. KB (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)	Rate  proken meing cost of S  Rate	201 20.1 20.1 221.10 etal 100mm. and f all materials an 2541 254.1 2795.10	Cum  down size, with d labour with all				
	not exceeding 20 cms. in depth, compacting each deposited layer 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8 : Providing and Filling in foundation with granite / trap I approved sand including hand packing, ramming, watering, included and lift. complete as per specifications. specification. No. KB (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-1.6 ; Providing and laying in position plain cement concrete.	Rate  Proken meing cost of S  Rate	201 20.1 221.10 etal 100mm. and f all materials an 2541 254.1 2795.10	Cum  down size, with d labour with all  Cum  240kgs, with				
	not exceeding 20 cms. in depth, compacting each deposited layer 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8 : Providing and Filling in foundation with granite / trap is approved sand including hand packing, ramming, watering, included and lift. complete as per specifications. specification. No. KB (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-1.6 ; Providing and laying in position plain cement concrept 20mm and down size graded granite metal coarse aggregate	Rate  Proken meing cost of S  Rate  Rate  Rate  Rate  Rate  Rate  Rate	201 20.1 20.1 221.10 etal 100mm. and f all materials an 2541 254.1 2795.10 11:2:4 with OPC	Cum  down size, with d labour with all  Cum  @ 240kgs, with e aggregtes @				
5	not exceeding 20 cms. in depth, compacting each deposited layer 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8 : Providing and Filling in foundation with granite / trap I approved sand including hand packing, ramming, watering, included and lift. complete as per specifications. specification. No. KB (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-1.6 ; Providing and laying in position plain cement concrete.	Rate  Proken meing cost of S  Rate  Rate  Rate  Rate  Rate  Rate  Rate	201 20.1 20.1 221.10 etal 100mm. and f all materials an 2541 254.1 2795.10 11:2:4 with OPC	Cum  down size, with d labour with all  Cum  @ 240kgs, with e aggregtes @				
	not exceeding 20 cms. in depth, compacting each deposited layer 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8: Providing and Filling in foundation with granite / trap Rapproved sand including hand packing, ramming, watering, included and lift. complete as per specifications. specification. No. KB (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-1.6; Providing and laying in position plain cement concrept 20mm and down size graded granite metal coarse aggregate 0.53cum, machine mixed, concrete laid in layers not exceed	Rate  Proken meing cost of S  Rate  Rate  Tete of Mixes @ 0.87  ding 15 6	201 20.1 20.1 221.10 etal 100mm. and f all materials an 254.1 2795.10 21:2:4 with OPC 78 cum and finems. thick, well	Cum  down size, with all cum  Cum  @ 240kgs, with a aggregtes @ compacted, in				
5	not exceeding 20 cms. in depth, compacting each deposited layer 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8 : Providing and Filling in foundation with granite / trap Rapproved sand including hand packing, ramming, watering, included and lift. complete as per specifications. specification. No. KB (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-1.6 ; Providing and laying in position plain cement concrect 20mm and down size graded granite metal coarse aggregate 0.53cum, machine mixed, concrete laid in layers not exceed foundation, plinth and cills, including cost of all materials,	Rate  Proken meing cost of S  Rate  Rate  Tete of Mixes @ 0.87  ding 15 6	201 20.1 20.1 221.10 etal 100mm. and f all materials an 2541 254.1 2795.10 c 1:2:4 with OPC 78 cum and finems. thick, well	Cum  down size, with all cum  Cum  @ 240kgs, with e aggregtes @ compacted, in				
5	not exceeding 20 cms. in depth, compacting each deposited layer 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8 : Providing and Filling in foundation with granite / trap Rapproved sand including hand packing, ramming, watering, included and lift. complete as per specifications. specification. No. KB (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-1.6 ; Providing and laying in position plain cement concrete and down size graded granite metal coarse aggregate 0.53cum, machine mixed, concrete laid in layers not exceed foundation, plinth and cills, including cost of all materials, specifications. Specification No. KBS 4.1, 4.2	Rate  Proken meing cost of S  Rate  Rate  Tete of Mixes @ 0.87  ding 15 6	201 20.1 20.1 221.10 etal 100mm. and f all materials an 2541 254.1 2795.10 c 1:2:4 with OPC 78 cum and finems. thick, well	Cum  down size, with all cum  Cum  @ 240kgs, with a aggregtes @ compacted, in				
5	not exceeding 20 cms. in depth, compacting each deposited layer 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8: Providing and Filling in foundation with granite / trap Rapproved sand including hand packing, ramming, watering, included and lift. complete as per specifications. specification. No. KB (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-1.6; Providing and laying in position plain cement concrect 20mm and down size graded granite metal coarse aggregate 0.53cum, machine mixed, concrete laid in layers not exceed foundation, plinth and cills, including cost of all materials, specifications. Specification No. KBS 4.1, 4.2 (KPWD 18-19,SI No.4.6,Pg.No.13)	Rate  Proken meing cost of S  Rate  Rate  Tete of Mixes @ 0.87  ding 15 6	201 20.1 20.1 221.10 etal 100mm. and f all materials an 254.1 2795.10 c 1:2:4 with OPC 78 cum and finders. thick, well HOM curing continuous co	Cum  down size, with d labour with all  Cum  240kgs, with e aggregtes @ compacted, in omplete as per				
5	not exceeding 20 cms. in depth, compacting each deposited laye 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8: Providing and Filling in foundation with granite / trap laproved sand including hand packing, ramming, watering, including lead and lift. complete as per specifications. specification. No. KB (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-1.6; Providing and laying in position plain cement concreve 20mm and down size graded granite metal coarse aggregate 0.53cum, machine mixed, concrete laid in layers not exceed foundation, plinth and cills, including cost of all materials, specifications. Specification No. KBS 4.1, 4.2 (KPWD 18-19,SI No.4.6,Pg.No.13)  Basic rate	Rate  Proken meing cost of S  Rate  Rate  Tete of Mixes @ 0.87  ding 15 6	201 20.1 20.1 221.10 etal 100mm. and f all materials an 254.1 2795.10 c 1:2:4 with OPC 78 cum and finems. thick, well HOM curing considerations of the consideration of the curing consideration of th	Cum  down size, with d labour with all  Cum  240kgs, with e aggregtes @ compacted, in omplete as per				
5	not exceeding 20 cms. in depth, compacting each deposited layer 50 m. and lift upto 1.5 m. including cost of all labour complete as 2.9 (KPWD 18-19,SI.No.2.10,Pg No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 2.8: Providing and Filling in foundation with granite / trap Rapproved sand including hand packing, ramming, watering, included and lift. complete as per specifications. specification. No. KB (KPWD 18-19,SI.No.2.15,Pg.No.7)  Basic rate  Add 10% For area weightage (Mangalore City)  KSRB 4-1.6; Providing and laying in position plain cement concrect 20mm and down size graded granite metal coarse aggregate 0.53cum, machine mixed, concrete laid in layers not exceed foundation, plinth and cills, including cost of all materials, specifications. Specification No. KBS 4.1, 4.2 (KPWD 18-19,SI No.4.6,Pg.No.13)	Rate  Proken meing cost of S  Rate  Rate  Tete of Mixes @ 0.87  ding 15 6	201 20.1 20.1 221.10 etal 100mm. and f all materials an 254.1 2795.10 c 1:2:4 with OPC 78 cum and finders. thick, well HOM curing continuous co	Cum  down size, with d labour with all  Cum  @ 240kgs, with e aggregtes @ compacted, in omplete as per				

6490.00 Cum

Rate

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 aggregtes @ 0.47cum, with super plasticisers@ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 ems thick, vibrated for all works in foundation 7 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,SI No.4.10,Pg.No.14) Basic rate 6198 Add 10% For area weightage (Mangalore City) 619.8 6817.80 Cum Rate

Providing and laying in position reinforced cement concrete of design Mix M25 with OPC KSRB 4.2.7 @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with super plasticisers @31ts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 ems thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) 8 including attached pilasters, columns, lintles, 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, 4.6 (KPWD 18-19, SI. No. 4.12, Pg No. 14) 6431 Basic rate Add 10% For area weightage (Mangalore City) 643.1 7074.10 Cum Rate

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 4.6.2
(KPWD 18-19,SI.No.4.28,Pg No.16)

Basic rate

Add 10% For area weightage (Mangalore City)

Rate

263

Rate

289.30 Sqm

KSRB 4-6.4 : 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.

Specification No. KBS 4.6.2

Basic rate

Add 10% For area weightage (Mangalore City)

Rate

397.10 Sqm

KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal offormworkfor suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specifications No. KBS 4.6.2

Basic rate

Add 10% For area weightage (Mangalore City)

Rate

408

Rate

448.80 Sqm

1	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C wor						
	hooking, placing in position, lapping and I or welding wherever						
	anchoring to the adjoining members wherever necessary complete						
12	shall not be measured and paid) cost of materials, labour, HOM complete as per specifications.						
	Specification No. KBS 4.6.3						
	TMT bars Fe 500						
	(KPWD 18-19,SI.No.4.46.2,Pg No.18)						
	Basic rate		70782				
	Add 10% For area weightage (Mangalore City)		7078.2				
		Rate	77860.20	MT			
	Providing fusion bonded epoxy coating not less than 175 microns t	hickness	and upto 300 mi	crons to			
	reinforcement of all diameters as per IS: 13620-1993 including tes	sting of co	ating at plant Th	e rate is			
13	inclusive of cost on account of careful handling, PVC coated bindir	ng wire in	stead of GI Bindi	ng wire, touch			
13	up material supplied by coating agency, repair work, loading, unloa	ading and	d straightening o	f bent rods etc.,			
	complete as per specification and as directed by the Engineer in ch	narge.					
	do For 10mm to 16mm dia bars						
	Ground Floor						
	Basic rate		10535				
	Add 10% For area weightage (Mangalore City)		1053.5				
		Rate	11588.50	MT			
	Providing external walls with texture finish using approved bran	d naint	annlied uniform	v in three coats			
	over one coat of primer including cost of all materials, machine						
14	unloading, all lead and lift and all other incidental charges inc		•	•			
'4	complete as per specifications.	sidding 3	candiding and i	emoving stains,			
	(KPWD 18-19,SI.No 15.103.Pg No.127)						
		Т	T	T			
	Basic rate		340				
	Add 10% For area weightage (Mangalore City)		34				
		Rate	374.00	Sqm			
-							
	Troppes of the state of the sta		<del> </del>				
	KSRB15-3 : Providing 15mm thick cement plaster in single co						
15	including rounding off corners wherever required smnooth renderi	ng, Pro					
15	including rounding off corners wherever required smooth renderincluding cost of materials, labour, curing complete as per specification.	ng, Pro					
15	including rounding off corners wherever required smooth rendering including cost of materials, labour, curing complete as per specifical KSRB15-3.5 : -do - cement mortar 1:4	ng, Pro	viding and remo	ving scaffolding,			
15	including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specifica KSRB15-3.5 : -do - cement mortar 1:4  Basic rate	ng, Pro	viding and remo	ving scaffolding,			
15	including rounding off corners wherever required smooth rendering including cost of materials, labour, curing complete as per specifical KSRB15-3.5 : -do - cement mortar 1:4	ng, Pro ations.	viding and remo	ving scaffolding,			
15	including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specifica KSRB15-3.5 : -do - cement mortar 1:4  Basic rate	ng, Pro	viding and remo	ving scaffolding,			
15	including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specifica KSRB15-3.5 : -do - cement mortar 1:4  Basic rate	ng, Pro ations.	viding and remo	ving scaffolding,			
15	including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specifical KSRB15-3.5 : -do - cement mortar 1:4  Basic rate Add 10% For area weightage (Mangalore City)  Providing and fixing food grade epoxy painting to over head tank	ng, Pro ations.  Rate  k,under g	222 22.2 244.20 ground tank and	ving scaffolding,  Sqm  sump tank after			
	including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specifical KSRB15-3.5 : -do - cement mortar 1:4  Basic rate Add 10% For area weightage (Mangalore City)  Providing and fixing food grade epoxy painting to over head tank cleaning and drying including pumping and bailing out of water,	ng, Pro ations.  Rate  k,under g	222 22.2 244.20 ground tank and	ving scaffolding,  Sqm  sump tank after			
15	including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specifical KSRB15-3.5 : -do - cement mortar 1:4  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing food grade epoxy painting to over head tank cleaning and drying including pumping and bailing out of water, and lifts etc., complete	ng, Pro ations.  Rate  k,under g	222 22.2 244.20 ground tank and	ving scaffolding,  Sqm  sump tank after			
	including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specifical KSRB15-3.5 : -do - cement mortar 1:4  Basic rate Add 10% For area weightage (Mangalore City)  Providing and fixing food grade epoxy painting to over head tank cleaning and drying including pumping and bailing out of water,	ng, Pro ations.  Rate  k,under g	222 22.2 244.20 ground tank and	ving scaffolding,  Sqm  sump tank after			
	including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specifical KSRB15-3.5 : -do - cement mortar 1:4  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing food grade epoxy painting to over head tank cleaning and drying including pumping and bailing out of water, and lifts etc., complete	ng, Pro ations.  Rate  k,under g	222 22.2 244.20 ground tank and	sump tank after rials labour lead			
	including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specifical KSRB15-3.5 : -do - cement mortar 1:4  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing food grade epoxy painting to over head tank cleaning and drying including pumping and bailing out of water, and lifts etc., complete (KPWD 18-19,SI.No.10.6,Pg.No.69)	ng, Pro ations.  Rate  k,under g	222 22.2 244.20 ground tank and cost of all mate	Sqm sump tank after rials labour lead			
	including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specifical KSRB15-3.5 : -do - cement mortar 1:4  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing food grade epoxy painting to over head tank cleaning and drying including pumping and bailing out of water, and lifts etc., complete (KPWD 18-19,SI.No.10.6,Pg.No.69)  Basic rate	ng, Pro ations.  Rate  k,under g	222 22.2 244.20 ground tank and cost of all mate	sump tank after rials labour lead			
	including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specifical KSRB15-3.5 : -do - cement mortar 1:4  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing food grade epoxy painting to over head tank cleaning and drying including pumping and bailing out of water, and lifts etc., complete (KPWD 18-19,SI.No.10.6,Pg.No.69)  Basic rate	Rate k,under gincluding	222 22.2 244.20 ground tank and cost of all mate  88 8.8	sump tank after rials labour lead			
	including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specifical KSRB15-3.5 : -do - cement mortar 1:4  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing food grade epoxy painting to over head tanceleaning and drying including pumping and bailing out of water, and lifts etc., complete (KPWD 18-19,SI.No.10.6,Pg.No.69)  Basic rate  Add 10% For area weightage (Mangalore City)	Rate k,under gincluding	222 22.2 244.20 ground tank and cost of all mate  88 8.8 96.80	Sqm sump tank after rials labour lead			
	including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specifical KSRB15-3.5 : -do - cement mortar 1:4  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing food grade epoxy painting to over head tank cleaning and drying including pumping and bailing out of water, and lifts etc., complete (KPWD 18-19,SI.No.10.6,Pg.No.69)  Basic rate  Add 10% For area weightage (Mangalore City)  Waterproofing of RCC Terrace I podium slab I toilet I utilities I v	Rate  k,under gincluding  Rate	222 22.2 244.20 ground tank and cost of all mate  88 8.8 96.80 sining structure b	Sqm sump tank after rials labour lead Sqm y preparing the			
	including rounding off corners wherever required smooth renderi including cost of materials, labour, curing complete as per specifical KSRB15-3.5 : -do - cement mortar 1:4  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing food grade epoxy painting to over head tanceleaning and drying including pumping and bailing out of water, and lifts etc., complete (KPWD 18-19,SI.No.10.6,Pg.No.69)  Basic rate  Add 10% For area weightage (Mangalore City)  Waterproofing of RCC Terrace I podium slab I toilet I utilities I v surface by chipping and cleaning and Grouting of Honey com	Rate  Rate  Rate  Rate  k,under g including  Rate  vater reta b, voids,	222 22.2 244.20 ground tank and cost of all mate  88 8.8 96.80 sining structure becracks I constru	sqm  sump tank after rials labour lead  Sqm  y preparing the ction joints with			
	including rounding off corners wherever required srnooth renderincluding cost of materials, labour, curing complete as per specifical KSRB15-3.5 : -do - cement mortar 1:4  Basic rate  Add 10% For area weightage (Mangalore City)  Providing and fixing food grade epoxy painting to over head tank cleaning and drying including pumping and bailing out of water, and lifts etc., complete (KPWD 18-19,SI.No.10.6,Pg.No.69)  Basic rate  Add 10% For area weightage (Mangalore City)  Waterproofing of RCC Terrace I podium slab I toilet I utilities I was surface by chipping and cleaning and Grouting of Honey comement slurry (1kg cement added in 10 ltr of water) added with 1C	Rate  Rate  Rate  Rate  vater reta b, voids,	222 22.2 244.20 ground tank and cost of all mate  88 8.8 96.80 sining structure becracks I construence acceler	Sqm  sump tank after rials labour lead  Sqm  y preparing the ction joints with ator, followed by			
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		Rate	578.60	Sqm
18	Providing and laying integral cement based treatment for water specified stone slab 22 mm to 25 mm thick with cement slur conforming to IS:2645 in recommended proportions with a gap of and the receiving surfaces and filling the gaps with neat cement s and finishing the exterior of stone slab with cement mortar 1:3 (1 neat cement punning mixed with water proofing compound in reco and as directed by Engineer-in-charge.  Using rough Kota stone (CPWD 2019,22.2)	ry mixed of 20 mm lurry mixed cement:	with water pro (minimum) betweed with water pro 3 coarse sand) 2	ofing compound veen stone slabs ofing compound 20 mm thick with
	Basic rate		1738	
		Rate	1738.00	Sqm

19	Providing and fixing in position pre-cast R.C.C. manhole cover ar quality.HD-20 Circular shape 600 mm internal dia. (CPWD 19,19.4.1)	nd frame	of required shap	e and approved
	Basic rate		1471.5	
		Rate	1471.50	Nos.

20	Providing M.S. foot rests including fixing in RCC tank with 20x20 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nomina With 20 mm diameter round bar (CPWD 19.15.2)			`
	Basic rate		383.7	
		Rate	383.70	Nos.

21	Extra Lead for Disposing off unserviceable materials upto 10 Km be Item No 17.4 KSRRB M100-4.1-Earth	eyond initi	al Lead of 5 km	
	Earth	2.0x	1.28x10km	
	Baisc rate		25.60	
	Add Loading and unloading charges(Item No 17.1 KSRRB M100-1)		57.00	
	Sub Total		82.60	
	Add 10% For area weightage (Mangalore City)		8.26	
		Rate	90.86	Cum

Assistant Executive Engineer MSCL Mangaluru

Executive Engineer MSCL Mangaluru