

**CONSTRUCTION OF COMMAND CONTROL CENTRE - MCC ANNEX BUILDING,
MANGALUR**

Grand Summary		
Sr. No.	Description	Cost In INR
1	Civil Work	3,04,55,694
2	Landscape Work	54,844
3	Electrical Work & Fire Alarm System	109,75,796
4	Fire Fighting Work	114,912
5	Plumbing Work	11,62,922
	Construction Cost Sub Total	4,27,64,168
	GST @ 12% on Construction Cost(Electrical Cost Excluded)	38,14,605
	Escalation and Tender Premium @ 5%	21,38,208
	Add Contingency	12,50,000
	Miscellaneous and Rounding off	33,019
	Grand Total	5,00,00,000

**EXECUTIVE ENGINEER
MSCL MANGALURU**

**GENERAL MANAGER TECHNICAL
MSCL MANGALURU**

**MANAGING DIRECTOR
MSCL MANGALURU**

BOQ of MCC ANNEX Building - Civil Work

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
1.00	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA attached)	Sqm	400.00	74.98	29,992	
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-In all types of soils (KPWD 18-19,SI No.2.23.1,Pg.No.8)	Cum	724.41	57.20	41,436	
3.00	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	167.07	73.70	12,313	
4.00	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 deteriorous 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/machinery (KUWSDB 2019)	Cum	83.54	744.70	62,209	
5.00	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	716.47	221.10	158,412	
6.00	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	595.20	284.90	169,572	
7.00	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)	Cum	56.13	2795.10	156,880	
8.00	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 aggretes @ 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	95.60	6490.00	620,451	
9.00	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 3.2.7 (KPWD 18-19,S.I. No.3.2)	Sqm	808.83	115.50	93,420	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
10.00	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 aggregates @ 0.47cum, with super plasticisers@ 3 liters confirming to IS 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 ems thick, vibrated for all works in foundation for footings , pedestals, 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	41.55	6817.80	2,83,286	
11.00	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, lintels, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (KPWD 18-19,SI.No.4.12,Pg No.14)					
	Plinth Beam,Column,Slab	Cum	51.03	7074.10	3,61,016	
	First Floor Beam,Column,Slab	Cum	154.29	7140.10	11,01,644	
	Second Floor Beam,Column,Slab	Cum	150.44	7206.10	10,84,053	
	Third Floor Beam,Column,Slab	Cum	153.48	7272.10	11,16,130	
	Terrace Floor Beam,Column,Slab	Cum	124.18	7338.10	9,11,231	
12.00	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)	Sqm	166.77	289.30	48,247	
13.00	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					
	Plinth Beam	Sqm	365.59	321.20	1,17,427	
	First Floor Beam	Sqm	599.38	321.20	1,92,519	
	Second Floor Beam	Sqm	603.38	321.20	1,93,804	
	Third Floor Beam	Sqm	603.38	321.20	1,93,804	
	Terrace Floor Beam	Sqm	440.21	321.20	1,41,397	
14.00	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					
	Foundation to Plinth and Plinth to First Floor	Sqm	315.70	501.60	1,58,357	
	First Floor to Second Floor	Sqm	203.68	501.60	1,02,166	
	Second Floor to Third Floor	Sqm	203.68	501.60	1,02,166	
	Third Floor to Terrace Floor	Sqm	203.68	501.60	1,02,166	
15.00	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of formwork for 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					
	First Floor Slab	Sqm	433.41	448.80	1,94,513	
	Second Floor Slab	Sqm	433.41	448.80	1,94,513	
	Third Floor Slab	Sqm	457.77	448.80	2,05,448	
	Terrace Floor Slab	Sqm	359.85	448.80	1,61,500	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
16.00	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 specificaiton. Specification No. KBS 4.6.2					
	Ground Floor	Sqm	47.06	617.10	29,041	
	First Floor	Sqm	21.19	617.10	13,075	
	Second Floor	Sqm	21.19	617.10	13,075	
	Third Floor	Sqm	21.19	617.10	13,075	
17.00	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					
	Ground Floor	Sqm	94.92	397.10	37,693	
	First Floor	Sqm	45.20	397.10	17,949	
	Second Floor	Sqm	45.20	397.10	17,949	
	Third Floor	Sqm	45.20	397.10	17,949	
18.00	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 l 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	MT	41.81	77860.20	32,55,418	
	First Floor	MT	15.29	78681.90	12,03,306	
	Second Floor	MT	16.00	79503.60	12,71,827	
	Third Floor	MT	15.63	80325.30	12,55,858	
19.00	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	88.74	11588.50	10,28,318	
20.00	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	Sqm	100.00	1161.60	1,16,160	
21.00	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)					
	Ground Floor	Cum	59.96	3,499.10	2,09,806	
22.00	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 super structure in CM 1:6 (Cement 45 kgs/M3) (KPWD 2018-19,42.5.3)					
	Ground Floor	Cum	105.45	3,730.10	3,93,347	
	First Floor	Cum	96.37	4,073.30	3,92,531	
	Second Floor	Cum	96.37	4,416.50	4,25,604	
	Third Floor	Cum	105.86	4,759.70	5,03,857	
	Terrace Floor	Cum	20.71	5,102.90	1,05,681	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
23.00	KSRB 5-15: Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m ³ having a minimum average compressive strength of 4.00 N/mm ² conforming to IS 2185 (Part 1)2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4					
	i) Ground Floor	Sqm	94.03	892.10	83,884	
	ii) First Floor	Sqm	85.97	930.60	80,004	
	iii)Second Floor	Sqm	85.97	969.10	83,314	
	iv)Third Floor	Sqm	85.97	1,007.60	86,623	
24.00	KSRB 5-14.1 : Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m ³ having a minimum average compressive strength of 5.00 N/mm ² conforming to IS 2185 (Part 1) 2005 and constructed with CM 1 A, as per IS 25722005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 do- -with solid concrete blocks of size 400x200x200mm					
	i) Ground Floor	Sqm	100.00	1,004.30	100,430	
25.00	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,Sl.No.15.13,Pg.No.115)					
	i) Ground Floor	Sqm	770.86	244.20	188,244	
	ii) First Floor	Sqm	629.67	250.80	157,922	
	iii)Second Floor	Sqm	629.67	257.40	162,077	
	iv)Third Floor	Sqm	668.91	264.00	176,593	
26.00	KSRB15-5 : Providing rough cement plastering 15mm thick in single coat with cement mortar to brick masonry for base of dadoing 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,Sl.No.15.31,Pg.No.117)					
	i)Ground Floor	Sqm	136.84	213.40	29,202	
	ii) First Floor	Sqm	165.04	220.00	36,309	
	iii)Second Floor	Sqm	165.04	226.60	37,398	
	iv)Third Floor	Sqm	165.04	233.20	38,487	
27.00	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. cement mortar 1:4 (KPWD 18-19,Sl.No.15.22,Pg No.116)					
	i)Ground Floor	Sqm	500.00	248.60	124,300	
	ii) First Floor	Sqm	530.00	255.20	135,256	
	iii)Second Floor	Sqm	490.00	261.80	128,282	
	iv)Third Floor	Sqm	550.00	268.40	147,620	
28.00	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)					
	Ground Floor	Sqm	847.95	85.80	72,754	
	First Floor	Sqm	692.64	92.40	64,000	
	Second Floor	Sqm	692.64	99.00	68,571	
	Third Floor	Sqm	735.80	105.60	77,701	
29.00	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,Sl.No.8.24	Sqm	200.00	1283.70	256,740	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
30.00	KSRB 15.10.3 Providing white washing to ceiling and l or sloping roof surface in two coats with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications.	Sqm	2070.00	14.30	29,601	
31.00	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)					
	Ground Floor	Sqm	672.68	288.20	193,865	
	First Floor	Sqm	393.18	301.40	118,503	
	Second Floor	Sqm	373.18	314.60	117,401	
	Third Floor	Sqm	472.18	327.80	154,779	
32.00	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,Sl.No.14.45,Pg.No.109)					
	Ground Floor	Sqm	479.00	1,240.80	5,94,343	
	First Floor	Sqm	523.00	1,243.00	6,50,089	
	Second Floor	Sqm	479.00	1,245.20	5,96,451	
	Third Floor	Sqm	545.00	1,247.40	6,79,833	
33.00	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. Specification No. KBS Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,Sl.No.14.36.2,Pg.No.108)					
	Ground Floor	Sqm	25.00	1,332.10	,33,303	
	First Floor	Sqm	23.00	1,334.30	,30,689	
	Second Floor	Sqm	23.00	1,336.50	,30,740	
	Third Floor	Sqm	23.00	1,338.70	,30,790	
34.00	Providing and laying pattern flooring for staircase treads and risers using the combination of 20mm thick ruby red granite@ 66%,20 mm thick grey granite@ 20%, 20mm thick, 20mm thick black granite 14%. The granite materials are laid with a bed of CM 1:3, 20mm thick pointed with colour pigment, including full rounding for nosing, flaming the ruby red granite for 50 mm wide including cost of all materials, mortar, labour, curing etc., complete as per specification. (KPWD 18-19,Sl.No.14.46,Pg.No.109)					
	Ground Floor	Sqm	53.31	7,914.50	4,21,922	
	First Floor	Sqm	19.71	7,916.70	1,56,038	
	Second Floor	Sqm	19.71	7,918.90	1,56,082	
	Third Floor	Sqm	19.71	7,921.10	1,56,125	
35.00	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)					
	Ground Floor	Sqm	97.43	1,334.30	1,30,001	
	First Floor	Sqm	81.41	1,336.50	108,804	
	Second Floor	Sqm	81.41	1,338.70	108,984	
	Third Floor	Sqm	81.41	1,340.90	109,163	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
36.00	KSRB 14.13-1: Providing precast chequered mosaic tiles dark shade using ordinary grey cement for steps and flooring, with precast 20mm thick, using marble chips of 7 to 10 nominal size laid in floors, steps and landings on a bed of 12mm thick cement mortar 1:3 mix, and jointed with neat cement slurry mixed with pigment to match the shade of tiles, curing, rubbing, polishing, oxalic acid wash, wax polish, including cost of materials, labour, complete as per specifications. (KPWD 18-19,Sl.No.14.28,Pg.No.107)					
	Ground Floor	Sqm	12.00	1,178.10	14,137	
37.00	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,Sl.No.14.52,Pg.No.110)					
	Ground Floor	Sqm	1.30	3,877.50	5,046	
	First Floor	Sqm	1.30	3,879.70	5,049	
	Second Floor	Sqm	1.30	3,881.90	5,052	
	Third Floor	Sqm	1.30	3,884.10	5,055	
38.00	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. Granite Stone of approved shade (CPWD 2019.8.10.2)	Sqm	5.76	3,216.50	18,527	
39.00	KSRB 15-15.3 • Providing and applying painting in one coat with plastic emulsion paint of approved brand and manufacture 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-	Sqm	4769.12	61.60	293,778	
40.00	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon glazed primer with antifungal paint for top coat of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. (KPWD 18-19,Sl.No.15.104,Pg.No.127)					
	Ground Floor	Sqm	672.68	198.00	133,190	
	First Floor	Sqm	393.18	206.80	81,309	
	Second Floor	Sqm	373.18	215.60	80,457	
	Third Floor	Sqm	472.18	224.40	105,956	
41.00	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,Sl.No.15.103,Pg.No.127)					
	Ground Floor	Sqm	500.00	374.00	187,000	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
42.00	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 kgl/sqm 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 slurry 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	Sqm	433.86	1112.10	4,82,499	
43.00	Waterproofing of RCC Terrace podium slab toilet utilities water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks construction joints with cement slurry (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 styrene butadiene & cement in the ratio of 1:0.1, @ 0.50kgl/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification (KPWD 18-19,Sl.No.10.5.1,Pg.No.69)	Sqm	109.38	578.60	63,288	
44.00	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 Nandi wood frames (KPWD 18-19,Sl.No.9.12,Pg.No.53)	Cum	0.53	1,12,357.30	,59,055	
45.00	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 9-6.1 : do- - Mathi/Nandi Wood (KPWD 18-19,Sl.No.9.16,Pg.No.53)					
	Ground Floor	Sqm	21.00	5,800.30	1,21,806	
46.00	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,Sl.No.9.98,Pg.No.64)					
	Ground Floor	Rmt	34.65	980.10	33,960	
	First Floor	Rmt	44.55	984.50	43,859	
	Second Floor	Rmt	44.55	988.90	44,055	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
	Third Floor	Rmt	44.55	993.30	44,252	
47.00	SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm for styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail oneither side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet 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 75 mm Aluminium hinges. (KPWD 18-19,Sl.No.9.83,Pg.No.60)					
	Ground Floor	Sqm	11.03	3,053.60	33,666	
	First Floor	Sqm	14.18	3,058.00	43,347	
	Second Floor	Sqm	14.18	3,062.40	43,410	
	Third Floor	Sqm	14.18	3,066.80	43,472	
48.00	Specification for uPVC Openable window Providing& fixing of Openable Door 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 openable frame. The frame having overall size of 60mm x 55mm with GI reinforcement of 1mm thickness and openable sash with overall size of 6Dmm x 75mm and GI reinforcement of 1.5mm thickness. Glazing bead for fixing of glass shall be of size 2Dmm x 34 mm. Windows shall be provided with 5mm plain float glass, Standard hardware with friction hing & Multi point locking system with Handle. Wall thickness of frame & sash shall be of 2mm-2.5mm. (KPWD 18-19,Sl.No.38.44.8,Pg no.310)	Sqm	25.20	5,992.80	151,019	
49.00	Providing & of Fixed Louvered Ventilator made out of multi chambered uPVC sections with TPv gaskets having isolated drainage and reinforced with Galvanized Iron profiles through out the window. The outer frame having a overall size of 60x55mm with reinforcement of 1 mm thickness and Mullion with overall size of 74x60mm with reinforcement of 1 mm thickness. Ventilator shall be provided with 4.5 mm Pin Head glass, standard hardware, Wall thickness of frame Mullion shall be 2-2.2 mm.	Sqm	10.08	4,994.00	50,340	
50.00	Providing and fixing Double shutter glass door of 12mm thick plain toughened glass of approved make. 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, as per the specification.	Sqm	9.45	8,849.50	83,628	
51.00	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 l 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.					
	Ground Floor	Sqm	51.60	5,910.30	304,971	
	First Floor	Sqm	57.86	5,914.70	342,230	
	Second Floor	Sqm	57.86	5,923.50	342,740	
	Third Floor	Sqm	89.60	5,930.10	531,343	

Sr. No.	Specification	Unit	Qty.	Rate	Amount	Remarks
52.00	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 tenoned 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	54.90	4,785.00	262,697	
	First Floor	Sqm	52.65	4,791.60	252,278	
	Second Floor	Sqm	52.65	4,798.20	252,625	
	Third Floor	Sqm	52.65	4,804.80	252,973	
53.00	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.	5.00	7,500	37,500	
54.00	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	20.00	91.3	1,826	
55.00	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	258.54	90.86	23,491	
			Total		3,04,55,694	

Assistant Engineer
MSCL Mangaluru

Assistant Executive Engineer
MSCL Mangaluru

Executive Engineer
MSCL Mangaluru

General Manager Technical
MSCL Mangaluru

Measurement Sheet of MCC Building Civil Work

Sr. No.	Description	Unit	No's	L	B	H	Qty.
1	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA attached)						
	Provisional Qty.	Sqm	1	400			400.00
2	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	9	2.6	2.8	3.00	196.56
	F2	Cum	8	2.9	3.1	3.00	215.76
	F3	Cum	11	3.1	3.3	3.00	337.59
	F4	Cum	1	3.4	3.4	3.00	34.68
	F7	Cum	1	2.3	2	3.00	13.80
	Lift	Cum	1	3.5	3.5	3.00	36.96
						Total	835.35
	Excavation for Plinth	Cum	1	465.55		0.3	139.66
	Consider 70% Qty in Soil						724.41
3	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	Cum	9	2.60	2.80	3.00	196.56
	F2	Cum	8	2.90	3.10	3.00	215.76
	F3	Cum	11	3.10	3.30	3.00	337.59
	F4	Cum	1	3.40	3.40	3.00	34.68
	F7	Cum	1	2.30	2.00	3.00	13.80
	Lift	Cum	1	3.51	3.51	3.00	36.96
		Cum				Total	835.35
	Consider 20% Qty in Soft Rock						167.07
4	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 deteriorious 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/machinery (KUWSDB 2019)						
	Footing Excavation						
	F1	Cum	9	2.60	2.80	3.00	196.56
	F2	Cum	8	2.90	3.10	3.00	215.76
	F3	Cum	11	3.10	3.30	3.00	337.59
	F4	Cum	1	3.40	3.40	3.00	34.68
	F7	Cum	1	2.30	2.00	3.00	13.80
	Lift	Cum	1	3.51	3.51	3.00	36.96
		Cum				Total	835.35
	Consider 10% Qty in Hard Rock						83.54

Sr. No.	Description	Unit	No's	L	B	H	Qty.
5	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 Excavation Qty. (Assume 90% Earth for refilling)	Cum	90%	835.35			751.82
	Soiling	Cum	-1	56.13			-56.13
	PCC	Cum	-1	21.20			-21.20
	Deduct Footing Concrete Vol.	Cum	-1	41.55			-41.55
	Quantity requirement for backfilling	Cum					716.47
		Cum					716.47
6	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						
	Plinth Refilling	Cum	1	744.0		0.8	595.20
7	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)						
	F1	Cum	9	2.4	2.6	0.23	12.92
	F2	Cum	8	2.7	2.9	0.23	14.41
	F3	Cum	11	2.9	3.1	0.23	22.74
	F4	Cum	1	3.2	3.2	0.23	2.36
	F7	Cum	1	2.1	1.8	0.23	0.87
	Lift	Cum	1	3.5	3.5	0.23	2.83
		Cum				Total	56.13
8	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 cms. 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	9	2.2	2.4	0.1	4.75
	F2	Cum	8	2.5	2.7	0.1	5.40
	F3	Cum	11	2.7	2.9	0.1	8.61
	F4	Cum	1	3	3	0.1	0.90
	F7	Cum	1	1.9	1.6	0.1	0.30
	Lift	Cum	1	3.5	3.5	0.1	1.23
	Plinth Area	Cum	1	744.0		0.1	74.40
		Cum				Total	95.60
9	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 3.2.7 (KPWD 18-19,S.I. No.3.2)						
		Sqm	1	32.47	24.91		808.83
		Sqm				Total	808.83

Sr. No.	Description	Unit	No's	L	B	H	Qty.
10	KSRB 4.2.1 Providing and laying in position reinforced cement concrete of Design Mix M25 with OPC@ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregates @ 0.47cum, with super plasticisers@ 3 liters conforming to IS 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 ems thick, vibrated for all works in foundation for footings, pedestals, 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						
	For Footing			Area-1	Area-2		
	F1	Cum	9	5.280	0.338	0.45	1.04
		Cum	9	2.200	2.400	0.15	7.13
	F2	Cum	8	6.750	0.285	0.45	1.26
		Cum	8	2.500	2.700	0.15	8.10
	F3	Cum	11	7.830	0.338	0.45	1.47
		Cum	11	2.700	2.900	0.15	12.92
	F4	Cum	1	9.000	0.423	0.45	1.71
		Cum	1	3.000	3.000	0.15	1.35
	F7	Cum	1	3.040	0.285	0.45	0.64
		Cum	1	1.600	1.900	0.15	0.46
	Lift	Cum	1	3.310	3.310	0.50	5.48
		Cum				Total	41.55
11	KSRB 4.2.7 Providing and laying in position reinforced cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with super plasticisers @31ts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 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)						
	Plinth Level Beam & Slab RCC						
	Beam RCC						
1	PB1	Cum	1	1.664	0.23	0.45	0.17
2	PB1	Cum	1	1.078	0.23	0.45	0.11
3	PB2	Cum	1	2.05	0.23	0.45	0.21
4	PB4	Cum	1	2.883	0.23	0.45	0.30
5	PB6	Cum	1	2.118	0.23	0.45	0.22
6	PB3	Cum	1	4.533	0.23	0.45	0.47
7	PB3	Cum	1	4.93	0.23	0.45	0.51
8	PB3	Cum	1	3.238	0.23	0.45	0.34
9	PB2	Cum	1	2.549	0.23	0.45	0.26
10	PB6	Cum	1	3.338	0.23	0.45	0.35
11	PB4	Cum	1	0.908	0.23	0.45	0.09
12	PB4	Cum	1	5.063	0.23	0.45	0.52
13	PB4	Cum	1	3.321	0.23	0.45	0.34
14	PB4	Cum	1	2.959	0.23	0.45	0.31
15	PB26	Cum	1	1.381	0.23	0.45	0.14
16	PB26	Cum	1	3.726	0.23	0.45	0.39
17	PB6	Cum	1	1.828	0.23	0.45	0.19
18	PB8	Cum	1	2.959	0.23	0.45	0.31
19	PB29	Cum	1	4.261	0.23	0.45	0.44
20	PB29	Cum	1	4.326	0.23	0.45	0.45
21	PB27	Cum	3	8.793	0.30	0.60	4.75
22	PB12	Cum	1	2.809	0.23	0.45	0.29
23	PB12	Cum	1	3.231	0.23	0.45	0.33
24	PB12	Cum	1	4.925	0.23	0.45	0.51
25	PB11	Cum	1	4.279	0.23	0.45	0.44
26	PB28	Cum	3	1.142	0.23	0.45	0.35
27	PB26	Cum	1	3.736	0.23	0.45	0.39

Sr. No.	Description	Unit	No's	L	B	H	Qty.
28	PB7	Cum	2	1.82	0.23	0.45	0.38
29	PB7	Cum	2	3.007	0.23	0.45	0.62
30	PB8	Cum	1	5.063	0.23	0.45	0.52
31	PB8	Cum	1	4.532	0.23	0.45	0.47
32	PB26	Cum	1	5.339	0.23	0.45	0.55
33	PB25	Cum	1	3.962	0.23	0.45	0.41
34	PB25	Cum	1	4.53	0.23	0.45	0.47
35	PB11	Cum	1	4.395	0.23	0.45	0.45
36	PB18	Cum	1	4.926	0.23	0.45	0.51
37	PB19	Cum	1	3.684	0.23	0.45	0.38
38	PB9	Cum	1	3.189	0.23	0.45	0.33
39	PB10	Cum	1	3	0.23	0.45	0.31
40	PB14	Cum	1	8.284	0.23	0.45	0.86
41	PB23	Cum	2	4.1	0.23	0.45	0.85
42	PB18	Cum	1	2.726	0.23	0.45	0.28
43	PB18	Cum	1	4.83	0.23	0.45	0.50
44	PB18	Cum	1	4.729	0.23	0.45	0.49
45	PB18	Cum	1	5.059	0.23	0.45	0.52
46	PB24	Cum	1	4.239	0.23	0.45	0.44
47	PB25	Cum	1	5.725	0.23	0.45	0.59
48	PB15	Cum	1	4.474	0.23	0.45	0.46
49	PB24	Cum	1	3.446	0.23	0.45	0.36
50	PB24	Cum	1	3.883	0.23	0.45	0.40
51	PB24	Cum	1	1.721	0.23	0.45	0.18
52	PB25	Cum	1	3.446	0.23	0.45	0.36
53	PB25	Cum	1	3.883	0.23	0.45	0.40
54	PB25	Cum	1	1.721	0.23	0.45	0.18
55	PB16	Cum	1	6.203	0.23	0.45	0.64
56	PB16	Cum	1	6.344	0.23	0.45	0.66
57	PB16	Cum	1	3.233	0.23	0.45	0.33
58	PB17	Cum	2	3.922	0.23	0.45	0.81
59	PB17	Cum	2	3.922	0.23	0.45	0.81
60	PB17	Cum	2	4	0.23	0.45	0.83
61	PB4	Cum	1	4.018	0.23	0.45	0.42
62	PB18	Cum	1	1.841	0.23	0.45	0.19
63	PB20	Cum	3	1.821	0.23	0.45	0.57
64	CB14	Cum	1	2.167	0.23	0.45	0.22
	Lintel						
	Ground Floor	Cum	1	100	0.23	0.20	4.60
	Column - Foundation Level to Plinth Level						
	C1	Cum	1	0.6	0.23	2.20	0.30
	C2	Cum	1	0.6	0.30	2.20	0.40
	C3	Cum	1	0.6	0.30	2.20	0.40
	C4	Cum	1	0.6	0.30	2.20	0.40
	C5	Cum	1	0.6	0.30	2.20	0.40
	C6	Cum	1	0.6	0.30	2.20	0.40
	C7	Cum	1	0.6	0.23	2.20	0.30
	C8	Cum	1	0.6	0.30	2.20	0.40
	C9	Cum	1	0.6	0.30	2.20	0.40
	C10	Cum	1	0.6	0.23	2.20	0.30
	C11	Cum	1	0.6	0.23	2.20	0.30
	C12	Cum	1	0.6	0.23	2.20	0.30
	C13	Cum	1	0.6	0.30	2.20	0.40
	C14	Cum	1	0.6	0.30	2.20	0.40
	C15	Cum	1	0.6	0.30	2.20	0.40
	C16	Cum	1	0.6	0.30	2.20	0.40
	C17	Cum	1	0.45	0.23	2.20	0.23
	C18	Cum	1	0.45	0.23	2.20	0.23
	C19	Cum	1	0.45	0.23	2.20	0.23
	C20	Cum	1	0.6	0.23	2.20	0.30
	C21	Cum	1	0.6	0.23	2.20	0.30
	C22	Cum	1	0.6	0.30	2.20	0.40
	C23	Cum	1	0.6	0.23	2.20	0.30
	C24	Cum	1	0.6	0.23	2.20	0.30
	C25	Cum	1	0.5	0.50	2.20	0.55
	C26	Cum	1	0.6	0.23	2.20	0.30
	C27	Cum	1	0.6	0.23	2.20	0.30
	C28	Cum	1	0.6	0.23	2.20	0.30
	C29	Cum	1	0.6	0.23	2.20	0.30
	C30	Cum	1	0.6	0.23	2.20	0.30
	Lift Wall						
	Long Wall	Cum	2	2.71	0.23	2.20	2.74

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	Short Wall	Cum	2	2.48	0.23	2.20	2.51
						Total	51.03
	First Floor LVL Beam						
	B1	Cum	1	23.14	0.23	0.45	2.39
	B2	Cum	1	0.94	0.23	0.45	0.10
	B3	Cum	1	2.12	0.23	0.45	0.22
	B4	Cum	1	4.41	0.23	0.60	0.61
	B4	Cum	1	4.93	0.23	0.60	0.68
	B4	Cum	1	3.23	0.23	0.60	0.45
	B3	Cum	1	2.55	0.23	0.45	0.26
	B2	Cum	1	1.78	0.23	0.45	0.18
	B5	Cum	1	2.12	0.23	0.60	0.29
	B6	Cum	1	4.53	0.23	0.60	0.63
	B6	Cum	1	5.04	0.23	0.60	0.69
	B6	Cum	1	3.32	0.23	0.60	0.46
	B6	Cum	1	2.98	0.23	0.60	0.41
	B7	Cum	1	4.53	0.23	0.60	0.63
	B7	Cum	1	5.04	0.23	0.60	0.69
	B7	Cum	1	3.32	0.23	0.60	0.46
	B7	Cum	1	2.98	0.23	0.60	0.41
	B9	Cum	1	4.53	0.23	0.60	0.63
	B9	Cum	1	5.04	0.23	0.60	0.69
	B9	Cum	1	3.32	0.23	0.60	0.46
	B9	Cum	1	2.98	0.23	0.60	0.41
	B11	Cum	1	4.53	0.23	0.60	0.63
	B11	Cum	1	5.04	0.23	0.60	0.69
	B11	Cum	1	3.32	0.23	0.60	0.46
	B11	Cum	1	2.98	0.23	0.60	0.41
	B31	Cum	3	8.793	0.3	0.75	5.94
	B29	Cum	1	3.962	0.23	0.45	0.41
	B29	Cum	1	4.599	0.23	0.45	0.48
	B30	Cum	1	9.532	0.23	0.45	0.99
	B32	Cum	1	3.962	0.23	0.45	0.41
	B32	Cum	1	4.599	0.23	0.45	0.48
	B2	Cum	2	1.975	0.23	0.45	0.41
	B27	Cum	2	3.651	0.23	0.45	0.76
	B8	Cum	1	3.189	0.23	0.60	0.44
	B9	Cum	1	2.97	0.23	0.60	0.41
	B8	Cum	1	2.09	0.23	0.60	0.29
	B25	Cum	1	4.54	0.23	0.60	0.63
	B26	Cum	2	4.102	0.23	0.60	1.13
	B24	Cum	1	4.357	0.23	0.60	0.60
	B25	Cum	2	4.357	0.23	0.60	1.20
	B27	Cum	1	4.357	0.23	0.45	0.45
	B28	Cum	1	4.357	0.23	0.45	0.45
	B24	Cum	1	3.587	0.23	0.60	0.50
	B25	Cum	2	3.587	0.23	0.60	0.99
	B27	Cum	1	3.587	0.23	0.45	0.37
	B28	Cum	1	3.587	0.23	0.45	0.37
	B12	Cum	1	5.702	0.23	0.60	0.79
	B13	Cum	1	2.78	0.23	0.60	0.38
	CB13	Cum	1	2.172	0.23	0.60	0.30
	CB15	Cum	1	2.172	0.23	0.60	0.30
	CB17	Cum	1	2.172	0.23	0.60	0.30
	CB19	Cum	2	2.172	0.23	0.60	0.60
	B10	Cum	1	1.861	0.23	0.45	0.19
	B28	Cum	1	1.138	0.23	0.45	0.12
	B15	Cum	1	6.421	0.23	0.60	0.89
	B15	Cum	1	6.421	0.23	0.60	0.89
	B14	Cum	1	4.51	0.23	0.60	0.62
	B16	Cum	1	6.421	0.23	0.60	0.89
	B22	Cum	3	4	0.23	0.60	1.66
	B27	Cum	1	4	0.23	0.45	0.41
	B28	Cum	1	4	0.23	0.45	0.41
	B20	Cum	1	16.366	0.23	0.60	2.26
	B21	Cum	1	3.684	0.23	0.60	0.51
	B20	Cum	1	4.926	0.23	0.60	0.68
	B18	Cum	4	3.067	0.23	0.45	1.27
	B23	Cum	4	1.021	0.23	0.45	0.42
	B19	Cum	1	11.796	0.23	0.60	1.63
	B28	Cum	2	1.841	0.23	0.45	0.38
	B1	Cum	1	25.69	0.23	0.45	2.66
	B1	Cum	1	10.586	0.23	0.45	1.10

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	CB7	Cum	1	0.58	0.23	0.60	0.08
	CB3	Cum	1	0.693	0.23	0.45	0.07
	CB32	Cum	1	1.03	0.00	0.60	0.00
	CB31	Cum	3	0.75	0.30	0.75	0.51
	CB27	Cum	1	0.432	0.23	0.60	0.06
	CB29	Cum	1	0.432	0.23	0.60	0.06
	CB1	Cum	1	0.666	0.23	0.60	0.09
	CB2	Cum	1	0.945	0.23	0.45	0.10
	CB8	Cum	1	0.922	0.23	0.60	0.13
	CB12	Cum	1	0.9	0.23	0.60	0.12
	CB14	Cum	1	0.9	0.23	0.60	0.12
	CB16	Cum	1	0.9	0.23	0.60	0.12
	CB19	Cum	1	1	0.23	0.60	0.14
	LB1	Cum	1	2.252	0.23	0.45	0.23
	Lintel						
	First Floor	Cum	1	135	0.23	0.20	6.21
	First Floor Slab						
	S5 (Balcony Slab)	Cum	1	4.6	0.996	0.125	0.57
	S5 (Balcony Slab)	Cum	1	4.704	0.72	0.125	0.42
	S5 (Balcony Slab)	Cum	1	0.76	0.76	0.125	0.07
	S5 (Balcony Slab)	Cum	1	2.879	0.80	0.125	0.29
	S5 (Balcony Slab)	Cum	1	3.239	0.74	0.125	0.30
	S5 (Balcony Slab)	Cum	1	4.93	0.68	0.125	0.42
	S5 (Balcony Slab)	Cum	1	4.408	0.558	0.125	0.31
	S5 (Balcony Slab)	Cum	1	4.68	0.558	0.125	0.33
	S5 (Balcony Slab)	Cum	1	2.019	0.558	0.125	0.14
	S5 (Balcony Slab)	Cum	1	6.815	0.90	0.125	0.77
	S5 (Balcony Slab)	Cum	1	5.046	0.90	0.125	0.57
	S5 (Balcony Slab)	Cum	1	4.915	0.90	0.125	0.55
	S5 (Balcony Slab)	Cum	1	4.747	0.90	0.125	0.53
	S5 (Balcony Slab)	Cum	1	4	0.90	0.125	0.45
	S2 (Right Side of the Lift)	Cum	1	2.066	2.12	0.150	0.66
	S2 (Right Side of the Lift)	Cum	2	2.648	2.98	0.150	2.37
	S2 (Right Side of the Lift)	Cum	2	3.315	2.09	0.150	2.08
	S2 (Right Side of the Lift)	Cum	2	2.959	2.59	0.150	2.30
	S2 (Right Side of the Lift)	Cum	1	2.75	1.97	0.150	0.81
	S2 (Right Side of the Lift)	Cum	1	1.975	1.975	0.150	0.59
	S3 (Right Side of the Lift)	Cum	1	1.974	1.60	0.150	0.47
	S3 (Right Side of the Lift)	Cum	1	2.625	1.60	0.150	0.63
	S3 (Right Side of the Lift)	Cum	1	2.465	1.60	0.150	0.59
	S3 (Right Side of the Lift)	Cum	1	2.5	1.60	0.150	0.60
	S3 (Right Side of the Lift)	Cum	1	4.925	2.26	0.150	1.67
	S3 (Right Side of the Lift)	Cum	1	4.925	2.26	0.150	1.67
	S3 (Right Side of the Lift)	Cum	1	4.925	2.47	0.150	1.82
	S3 (Right Side of the Lift)	Cum	1	4.925	2.50	0.150	1.85
	S3 (Right Side of the Lift)	Cum	1	3.231	2.26	0.150	1.09
	S3 (Right Side of the Lift)	Cum	1	3.231	2.26	0.150	1.09
	S3 (Right Side of the Lift)	Cum	1	3.231	2.47	0.150	1.19
	S3 (Right Side of the Lift)	Cum	1	3.231	2.50	0.150	1.21
	S3 (Front Side of the Lift)	Cum	1	2.09	3.93	0.150	1.23
	S1 (Front Side of the Lift)	Cum	1	2.262	3.65	0.150	1.24
	S1 (Front Side of the Lift)	Cum	1	4.403	3.92	0.150	2.59
	S1 (Left Side of the Lift)	Cum	1	4.52952		0.150	0.68
	S1 (Left Side of the Lift)	Cum	1	3.179	4.542	0.150	2.17
	S2 (Right Side of the Lift)	Cum	1	2.12	3.173	0.150	1.01
	S2 (Right Side of the Lift)	Cum	1	1.952	1.138	0.150	0.33
	S1 (Front Side of the Lift)	Cum	1	4.357	2.094	0.150	1.37
	S1 (Front Side of the Lift)	Cum	1	4.357	3.178	0.150	2.08
	S1 (Front Side of the Lift)	Cum	1	4.357	3.073	0.150	2.01
	S1 (Front Side of the Lift)	Cum	1	4.628079		0.150	0.69
	S1 (Front Side of the Lift)	Cum	1	4.621	3.581	0.150	2.48
	S1 (Front Side of the Lift)	Cum	1	2.094	3.581	0.150	1.12
	S1 (Front Side of the Lift)	Cum	1	3.178	3.581	0.150	1.71
	S1 (Front Side of the Lift)	Cum	1	3.073	3.581	0.150	1.65
	S1 (Left Side of the External Staircase)	Cum	1	4.00	2.81	0.150	1.69
	S1 (Left Side of the External Staircase)	Cum	1	4.00	3.71	0.150	2.22
	S4 (Toilet Slab)	Cum	2	3.07	1.77	0.125	1.36
	S4 (Toilet Slab)	Cum	6	3.07	1.77	0.125	4.07
	S3 (Passage Slab)	Cum	1	4.35	1.95	0.150	1.28
	S3 (Passage Slab)	Cum	1	3.62	1.95	0.150	1.06
	S3 (Passage Slab)	Cum	1	3.99	1.95	0.150	1.17
	S3 (Passage Slab)	Cum	1	1.85	1.95	0.150	0.54
	Column - Plinth Level to First Floor Level						

Sr. No.	Description	Unit	No's	L	B	H	Qty.
C1		Cum	1	0.60	0.23	4.00	0.55
C2		Cum	1	0.60	0.30	4.00	0.72
C3		Cum	1	0.60	0.30	4.00	0.72
C4		Cum	1	0.60	0.30	4.00	0.72
C5		Cum	1	0.60	0.30	4.00	0.72
C6		Cum	1	0.60	0.30	4.00	0.72
C7		Cum	1	0.60	0.23	4.00	0.55
C8		Cum	1	0.60	0.30	4.00	0.72
C9		Cum	1	0.60	0.30	4.00	0.72
C10		Cum	1	0.60	0.23	4.00	0.55
C11		Cum	1	0.60	0.23	4.00	0.55
C12		Cum	1	0.60	0.23	4.00	0.55
C13		Cum	1	0.60	0.30	4.00	0.72
C14		Cum	1	0.60	0.30	4.00	0.72
C15		Cum	1	0.60	0.30	4.00	0.72
C16		Cum	1	0.60	0.30	4.00	0.72
C17		Cum	1	0.45	0.23	4.00	0.41
C18		Cum	1	0.45	0.23	4.00	0.41
C19		Cum	1	0.45	0.23	4.00	0.41
C20		Cum	1	0.60	0.23	4.00	0.55
C21		Cum	1	0.60	0.23	4.00	0.55
C22		Cum	1	0.60	0.30	4.00	0.72
C23		Cum	1	0.60	0.23	4.00	0.55
C24		Cum	1	0.60	0.23	4.00	0.55
C25		Cum	1	0.50	0.50	4.00	1.00
C26		Cum	1	0.60	0.23	4.00	0.55
C27		Cum	1	0.60	0.23	4.00	0.55
C28		Cum	1	0.60	0.23	4.00	0.55
C29		Cum	1	0.60	0.23	4.00	0.55
C30		Cum	1	0.60	0.23	4.00	0.55
Lift Wall							
Long Wall		Cum	1	2.71	0.23	4.00	2.49
Short Wall		Cum	1	2.48	0.23	4.00	2.28
Staircase RCC							
Step		Cum	22	1.5	0.02		0.74
Horizontal Length of Waist Slab = Tread X No. of Steps =0.3 X							
Height of the top of the landing from the floor = No. of Riser X Ht. of Riser = 12 X 0.150 = 1.8 m							
Inclined Length of Waist Slab = Sqrt ((Horizontal Length)^2+(Height)^2) =Sqrt ((3.3)^2+(1.8)^2) =3.76 m							
Flight waist slab - 1		Cum	1	3.76	1.50	0.15	0.85
Flight waist slab - 2		Cum	1	3.76	1.50	0.15	0.85
Landing		Cum	1	3	1.50	0.15	0.68
Outside Staircase							
Step		Cum	27	1.5	0.02		0.91
Horizontal Length of Waist Slab = Tread X No. of Steps =0.3 X							
Height of the top of the landing from the floor = No. of Riser X Ht. of Riser = 28 X 0.150 = 4.2 m							
Inclined Length of Waist Slab = Sqrt ((Horizontal Length)^2+(Height)^2) =Sqrt ((8.1)^2+(4.2)^2) =9.12 m							
Flight waist slab		Cum	1	9.12	1.50	0.15	2.05
Landing		Cum	4	1.5	1.50	0.15	1.35
Total							154.29
Second Floor LVL Beam							
B1		Cum	1	23.14	0.23	0.45	2.39
B2		Cum	1	0.94	0.23	0.45	0.10
B3		Cum	1	2.12	0.23	0.45	0.22
B4		Cum	1	4.41	0.23	0.60	0.61
B4		Cum	1	4.93	0.23	0.60	0.68
B4		Cum	1	3.23	0.23	0.60	0.45
B3		Cum	1	2.55	0.23	0.45	0.26
B2		Cum	1	1.78	0.23	0.45	0.18
B5		Cum	1	2.12	0.23	0.60	0.29
B6		Cum	1	4.53	0.23	0.60	0.63
B6		Cum	1	5.04	0.23	0.60	0.69
B6		Cum	1	3.32	0.23	0.60	0.46
B6		Cum	1	2.98	0.23	0.60	0.41
B7		Cum	1	4.53	0.23	0.60	0.63
B7		Cum	1	5.04	0.23	0.60	0.69

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	B7	Cum	1	3.32	0.23	0.60	0.46
	B7	Cum	1	2.98	0.23	0.60	0.41
	B9	Cum	1	4.53	0.23	0.60	0.63
	B9	Cum	1	5.04	0.23	0.60	0.69
	B9	Cum	1	3.32	0.23	0.60	0.46
	B9	Cum	1	2.98	0.23	0.60	0.41
	B11	Cum	1	4.53	0.23	0.60	0.63
	B11	Cum	1	5.04	0.23	0.60	0.69
	B11	Cum	1	3.32	0.23	0.60	0.46
	B11	Cum	1	2.98	0.23	0.60	0.41
	B31	Cum	3	8.793	0.3	0.75	5.94
	B29	Cum	1	3.962	0.23	0.45	0.41
	B29	Cum	1	4.599	0.23	0.45	0.48
	B30	Cum	1	9.532	0.23	0.45	0.99
	B32	Cum	1	3.962	0.23	0.45	0.41
	B32	Cum	1	4.599	0.23	0.45	0.48
	B2	Cum	2	1.975	0.23	0.45	0.41
	B27	Cum	2	3.651	0.23	0.45	0.76
	B8	Cum	1	3.189	0.23	0.60	0.44
	B9	Cum	1	2.97	0.23	0.60	0.41
	B8	Cum	1	2.09	0.23	0.60	0.29
	B25	Cum	1	4.54	0.23	0.60	0.63
	B26	Cum	2	4.102	0.23	0.60	1.13
	B24	Cum	1	4.357	0.23	0.60	0.60
	B25	Cum	2	4.357	0.23	0.60	1.20
	B27	Cum	1	4.357	0.23	0.45	0.45
	B28	Cum	1	4.357	0.23	0.45	0.45
	B24	Cum	1	3.587	0.23	0.60	0.50
	B25	Cum	2	3.587	0.23	0.60	0.99
	B27	Cum	1	3.587	0.23	0.45	0.37
	B28	Cum	1	3.587	0.23	0.45	0.37
	B12	Cum	1	5.702	0.23	0.60	0.79
	B13	Cum	1	2.78	0.23	0.60	0.38
	CB13	Cum	1	2.172	0.23	0.60	0.30
	CB15	Cum	1	2.172	0.23	0.60	0.30
	CB17	Cum	1	2.172	0.23	0.60	0.30
	CB19	Cum	2	2.172	0.23	0.60	0.60
	B10	Cum	1	1.861	0.23	0.45	0.19
	B28	Cum	1	1.138	0.23	0.45	0.12
	B15	Cum	1	6.421	0.23	0.60	0.89
	B15	Cum	1	6.421	0.23	0.60	0.89
	B14	Cum	1	4.51	0.23	0.60	0.62
	B16	Cum	1	6.421	0.23	0.60	0.89
	B22	Cum	3	4	0.23	0.60	1.66
	B27	Cum	1	4	0.23	0.45	0.41
	B28	Cum	1	4	0.23	0.45	0.41
	B20	Cum	1	16.366	0.23	0.60	2.26
	B21	Cum	1	3.684	0.23	0.60	0.51
	B20	Cum	1	4.926	0.23	0.60	0.68
	B18	Cum	4	3.067	0.23	0.45	1.27
	B23	Cum	4	1.021	0.23	0.45	0.42
	B19	Cum	1	11.796	0.23	0.60	1.63
	B28	Cum	2	1.841	0.23	0.45	0.38
	B1	Cum	1	25.69	0.23	0.45	2.66
	B1	Cum	1	10.586	0.23	0.45	1.10
	CB7	Cum	1	0.58	0.23	0.60	0.08
	CB3	Cum	1	0.693	0.23	0.45	0.07
	CB32	Cum	1	1.03	0.00	0.60	0.00
	CB31	Cum	3	0.75	0.30	0.75	0.51
	CB27	Cum	1	0.432	0.23	0.60	0.06
	CB29	Cum	1	0.432	0.23	0.60	0.06
	CB1	Cum	1	0.666	0.23	0.60	0.09
	CB2	Cum	1	0.945	0.23	0.45	0.10
	CB8	Cum	1	0.922	0.23	0.60	0.13
	CB12	Cum	1	0.9	0.23	0.60	0.12
	CB14	Cum	1	0.9	0.23	0.60	0.12
	CB16	Cum	1	0.9	0.23	0.60	0.12
	CB19	Cum	1	1	0.23	0.60	0.14
	LB1	Cum	1	2.252	0.23	0.45	0.23
	Lintel						
	Second Floor	Cum	1	145.00	0.23	0.20	6.67
	Second Floor Slab						
	S5 (Balcony Slab)	Cum	1	4.6	0.996	0.125	0.57

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	S5 (Balcony Slab)	Cum	1	4.704	0.72	0.125	0.42
	S5 (Balcony Slab)	Cum	1	0.76	0.76	0.125	0.07
	S5 (Balcony Slab)	Cum	1	2.879	0.80	0.125	0.29
	S5 (Balcony Slab)	Cum	1	3.239	0.74	0.125	0.30
	S5 (Balcony Slab)	Cum	1	4.93	0.68	0.125	0.42
	S5 (Balcony Slab)	Cum	1	4.408	0.558	0.125	0.31
	S5 (Balcony Slab)	Cum	1	4.68	0.558	0.125	0.33
	S5 (Balcony Slab)	Cum	1	2.019	0.558	0.125	0.14
	S5 (Balcony Slab)	Cum	1	6.815	0.90	0.125	0.77
	S5 (Balcony Slab)	Cum	1	5.046	0.90	0.125	0.57
	S5 (Balcony Slab)	Cum	1	4.915	0.90	0.125	0.55
	S5 (Balcony Slab)	Cum	1	4.747	0.90	0.125	0.53
	S5 (Balcony Slab)	Cum	1	4	0.90	0.125	0.45
	S2 (Right Side of the Lift)	Cum	1	2.066	2.12	0.150	0.66
	S2 (Right Side of the Lift)	Cum	2	2.648	2.98	0.150	2.37
	S2 (Right Side of the Lift)	Cum	2	3.315	2.09	0.150	2.08
	S2 (Right Side of the Lift)	Cum	2	2.959	2.59	0.150	2.30
	S2 (Right Side of the Lift)	Cum	1	2.75	1.97	0.150	0.81
	S2 (Right Side of the Lift)	Cum	1	1.975	1.975	0.150	0.59
	S3 (Right Side of the Lift)	Cum	1	1.974	1.60	0.150	0.47
	S3 (Right Side of the Lift)	Cum	1	2.625	1.60	0.150	0.63
	S3 (Right Side of the Lift)	Cum	1	2.465	1.60	0.150	0.59
	S3 (Right Side of the Lift)	Cum	1	2.5	1.60	0.150	0.60
	S3 (Right Side of the Lift)	Cum	1	4.925	2.26	0.150	1.67
	S3 (Right Side of the Lift)	Cum	1	4.925	2.26	0.150	1.67
	S3 (Right Side of the Lift)	Cum	1	4.925	2.47	0.150	1.82
	S3 (Right Side of the Lift)	Cum	1	4.925	2.50	0.150	1.85
	S3 (Right Side of the Lift)	Cum	1	3.231	2.26	0.150	1.09
	S3 (Right Side of the Lift)	Cum	1	3.231	2.26	0.150	1.09
	S3 (Right Side of the Lift)	Cum	1	3.231	2.47	0.150	1.19
	S3 (Right Side of the Lift)	Cum	1	3.231	2.50	0.150	1.21
	S3 (Front Side of the Lift)	Cum	1	2.09	3.93	0.150	1.23
	S1 (Front Side of the Lift)	Cum	1	2.262	3.65	0.150	1.24
	S1 (Front Side of the Lift)	Cum	1	4.403	3.92	0.150	2.59
	S1 (Left Side of the Lift)	Cum	1	4.52952		0.150	0.68
	S1 (Left Side of the Lift)	Cum	1	3.179	4.542	0.150	2.17
	S2 (Right Side of the Lift)	Cum	1	2.12	3.173	0.150	1.01
	S2 (Right Side of the Lift)	Cum	1	1.952	1.138	0.150	0.33
	S1 (Front Side of the Lift)	Cum	1	4.357	2.094	0.150	1.37
	S1 (Front Side of the Lift)	Cum	1	4.357	3.178	0.150	2.08
	S1 (Front Side of the Lift)	Cum	1	4.357	3.073	0.150	2.01
	S1 (Front Side of the Lift)	Cum	1	4.628079		0.150	0.69
	S1 (Front Side of the Lift)	Cum	1	4.621	3.581	0.150	2.48
	S1 (Front Side of the Lift)	Cum	1	2.094	3.581	0.150	1.12
	S1 (Front Side of the Lift)	Cum	1	3.178	3.581	0.150	1.71
	S1 (Front Side of the Lift)	Cum	1	3.073	3.581	0.150	1.65
	S1 (Left Side of the External Staircase)	Cum	1	4.00	2.81	0.150	1.69
	S1 (Left Side of the External Staircase)	Cum	1	4.00	3.71	0.150	2.22
	S4 (Toilet Slab)	Cum	2	3.07	1.77	0.125	1.36
	S4 (Toilet Slab)	Cum	6	3.07	1.77	0.125	4.07
	S3 (Passage Slab)	Cum	1	4.35	1.95	0.150	1.28
	S3 (Passage Slab)	Cum	1	3.62	1.95	0.150	1.06
	S3 (Passage Slab)	Cum	1	3.99	1.95	0.150	1.17
	S3 (Passage Slab)	Cum	1	1.85	1.95	0.150	0.54
	Column - First Floor to Second Floor						
	C1	Cum	1	0.60	0.23	4.00	0.55
	C2	Cum	1	0.60	0.30	4.00	0.72
	C3	Cum	1	0.60	0.30	4.00	0.72
	C4	Cum	1	0.60	0.30	4.00	0.72
	C5	Cum	1	0.60	0.30	4.00	0.72
	C6	Cum	1	0.60	0.30	4.00	0.72
	C7	Cum	1	0.60	0.23	4.00	0.55
	C8	Cum	1	0.60	0.30	4.00	0.72
	C9	Cum	1	0.60	0.30	4.00	0.72
	C10	Cum	1	0.60	0.23	4.00	0.55
	C11	Cum	1	0.60	0.23	4.00	0.55
	C12	Cum	1	0.60	0.23	4.00	0.55
	C13	Cum	1	0.60	0.30	4.00	0.72
	C14	Cum	1	0.60	0.30	4.00	0.72
	C15	Cum	1	0.60	0.30	4.00	0.72
	C16	Cum	1	0.60	0.30	4.00	0.72
	C17	Cum	1	0.45	0.23	4.00	0.41
	C18	Cum	1	0.45	0.23	4.00	0.41

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	C19	Cum	1	0.45	0.23	4.00	0.41
	C20	Cum	1	0.60	0.23	4.00	0.55
	C21	Cum	1	0.60	0.23	4.00	0.55
	C22	Cum	1	0.60	0.30	4.00	0.72
	C23	Cum	1	0.60	0.23	4.00	0.55
	C24	Cum	1	0.60	0.23	4.00	0.55
	C25	Cum	1	0.50	0.50	4.00	1.00
	C26	Cum	1	0.60	0.23	4.00	0.55
	C27	Cum	1	0.60	0.23	4.00	0.55
	C28	Cum	1	0.60	0.23	4.00	0.55
	C29	Cum	1	0.60	0.23	4.00	0.55
	C30	Cum	1	0.60	0.23	4.00	0.55
	Lift Wall						
	Long Wall	Cum	1	2.71	0.23	4.00	2.49
	Short Wall	Cum	1	2.48	0.23	4.00	2.28
	Staircase RCC						
	Step	Cum	22	1.5	0.02		0.74
	Horizontal Length of Waist Slab = Tread X No. of Steps =0.3 X						
	Height of the top of the landing from the floor = No. of Riser X Ht. of Riser = 12 X 0.150 = 1.8 m						
	Inclined Length of Waist Slab = Sqrt ((Horizontal Length)^2+(Height)^2) =Sqrt ((3.3)^2+(1.8)^2) =3.76 m						
	Flight waist slab - 1	Cum	1	3.76	1.50	0.15	0.85
	Flight waist slab - 2	Cum	1	3.76	1.50	0.15	0.85
	Landing	Cum	1	3	1.50	0.15	0.68
						Total	150.44
	Third Floor LVL Beam						
	B1	Cum	1	23.14	0.23	0.45	2.39
	B2	Cum	1	0.94	0.23	0.45	0.10
	B3	Cum	1	2.12	0.23	0.45	0.22
	B4	Cum	1	4.41	0.23	0.60	0.61
	B4	Cum	1	4.93	0.23	0.60	0.68
	B4	Cum	1	3.23	0.23	0.60	0.45
	B3	Cum	1	2.55	0.23	0.45	0.26
	B2	Cum	1	1.78	0.23	0.45	0.18
	B5	Cum	1	2.12	0.23	0.60	0.29
	B6	Cum	1	4.53	0.23	0.60	0.63
	B6	Cum	1	5.04	0.23	0.60	0.69
	B6	Cum	1	3.32	0.23	0.60	0.46
	B6	Cum	1	2.98	0.23	0.60	0.41
	B7	Cum	1	4.53	0.23	0.60	0.63
	B7	Cum	1	5.04	0.23	0.60	0.69
	B7	Cum	1	3.32	0.23	0.60	0.46
	B7	Cum	1	2.98	0.23	0.60	0.41
	B9	Cum	1	4.53	0.23	0.60	0.63
	B9	Cum	1	5.04	0.23	0.60	0.69
	B9	Cum	1	3.32	0.23	0.60	0.46
	B9	Cum	1	2.98	0.23	0.60	0.41
	B11	Cum	1	4.53	0.23	0.60	0.63
	B11	Cum	1	5.04	0.23	0.60	0.69
	B11	Cum	1	3.32	0.23	0.60	0.46
	B11	Cum	1	2.98	0.23	0.60	0.41
	B31	Cum	3	8.793	0.3	0.75	5.94
	B29	Cum	1	3.962	0.23	0.45	0.41
	B29	Cum	1	4.599	0.23	0.45	0.48
	B30	Cum	1	9.532	0.23	0.45	0.99
	B32	Cum	1	3.962	0.23	0.45	0.41
	B32	Cum	1	4.599	0.23	0.45	0.48
	B2	Cum	2	1.975	0.23	0.45	0.41
	B27	Cum	2	3.651	0.23	0.45	0.76
	B8	Cum	1	3.189	0.23	0.60	0.44
	B9	Cum	1	2.97	0.23	0.60	0.41
	B8	Cum	1	2.09	0.23	0.60	0.29
	B25	Cum	1	4.54	0.23	0.60	0.63
	B26	Cum	2	4.102	0.23	0.60	1.13
	B24	Cum	1	4.357	0.23	0.60	0.60
	B25	Cum	2	4.357	0.23	0.60	1.20
	B27	Cum	1	4.357	0.23	0.45	0.45
	B28	Cum	1	4.357	0.23	0.45	0.45
	B24	Cum	1	3.587	0.23	0.60	0.50
	B25	Cum	2	3.587	0.23	0.60	0.99

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	B27	Cum	1	3.587	0.23	0.45	0.37
	B28	Cum	1	3.587	0.23	0.45	0.37
	B12	Cum	1	5.702	0.23	0.60	0.79
	B13	Cum	1	2.78	0.23	0.60	0.38
	CB13	Cum	1	2.172	0.23	0.60	0.30
	CB15	Cum	1	2.172	0.23	0.60	0.30
	CB17	Cum	1	2.172	0.23	0.60	0.30
	CB19	Cum	2	2.172	0.23	0.60	0.60
	B10	Cum	1	1.861	0.23	0.45	0.19
	B28	Cum	1	1.138	0.23	0.45	0.12
	B15	Cum	1	6.421	0.23	0.60	0.89
	B15	Cum	1	6.421	0.23	0.60	0.89
	B14	Cum	1	4.51	0.23	0.60	0.62
	B16	Cum	1	6.421	0.23	0.60	0.89
	B22	Cum	3	4	0.23	0.60	1.66
	B27	Cum	1	4	0.23	0.45	0.41
	B28	Cum	1	4	0.23	0.45	0.41
	B20	Cum	1	16.366	0.23	0.60	2.26
	B21	Cum	1	3.684	0.23	0.60	0.51
	B20	Cum	1	4.926	0.23	0.60	0.68
	B18	Cum	4	3.067	0.23	0.45	1.27
	B23	Cum	4	1.021	0.23	0.45	0.42
	B19	Cum	1	11.796	0.23	0.60	1.63
	B28	Cum	2	1.841	0.23	0.45	0.38
	B1	Cum	1	25.69	0.23	0.45	2.66
	B1	Cum	1	10.586	0.23	0.45	1.10
	CB7	Cum	1	0.58	0.23	0.60	0.08
	CB3	Cum	1	0.693	0.23	0.45	0.07
	CB32	Cum	1	1.03	0.00	0.60	0.00
	CB31	Cum	3	0.75	0.30	0.75	0.51
	CB27	Cum	1	0.432	0.23	0.60	0.06
	CB29	Cum	1	0.432	0.23	0.60	0.06
	CB1	Cum	1	0.666	0.23	0.60	0.09
	CB2	Cum	1	0.945	0.23	0.45	0.10
	CB8	Cum	1	0.922	0.23	0.60	0.13
	CB12	Cum	1	0.9	0.23	0.60	0.12
	CB14	Cum	1	0.9	0.23	0.60	0.12
	CB16	Cum	1	0.9	0.23	0.60	0.12
	CB19	Cum	1	1	0.23	0.60	0.14
	LB1	Cum	1	2.252	0.23	0.45	0.23
	Lintel						
	Third Floor	Cum	1	145.00	0.23	0.20	6.67
	Third Floor Slab						
	S5 (Balcony Slab)	Cum	1	4.6	0.996	0.125	0.57
	S5 (Balcony Slab)	Cum	1	4.704	0.72	0.125	0.42
	S5 (Balcony Slab)	Cum	1	0.76	0.76	0.125	0.07
	S5 (Balcony Slab)	Cum	1	2.879	0.80	0.125	0.29
	S5 (Balcony Slab)	Cum	1	3.239	0.74	0.125	0.30
	S5 (Balcony Slab)	Cum	1	4.93	0.68	0.125	0.42
	S5 (Balcony Slab)	Cum	1	4.408	0.558	0.125	0.31
	S5 (Balcony Slab)	Cum	1	4.68	0.558	0.125	0.33
	S5 (Balcony Slab)	Cum	1	2.019	0.558	0.125	0.14
	S5 (Balcony Slab)	Cum	1	6.815	0.90	0.125	0.77
	S5 (Balcony Slab)	Cum	1	5.046	0.90	0.125	0.57
	S5 (Balcony Slab)	Cum	1	4.915	0.90	0.125	0.55
	S5 (Balcony Slab)	Cum	1	4.747	0.90	0.125	0.53
	S5 (Balcony Slab)	Cum	1	4	0.90	0.125	0.45
	S5 (Balcony Slab)	Cum	1	0.802	0.80	0.125	0.08
	S5 (Balcony Slab)	Cum	1	2.879	0.77	0.125	0.28
	S5 (Balcony Slab)	Cum	1	3.231	0.76	0.125	0.31
	S5 (Balcony Slab)	Cum	1	4.926	0.76	0.125	0.47
	S5 (Balcony Slab)	Cum	1	4.409	0.76	0.125	0.42
	S5 (Balcony Slab)	Cum	1	1.121	0.76	0.125	0.11
	S5 (Balcony Slab)	Cum	1	1.14	0.78	0.125	0.11
	S5 (Balcony Slab)	Cum	1	4.42	0.77	0.125	0.42
	S5 (Balcony Slab)	Cum	2	3.624	0.95	0.125	0.86
	S2 (Right Side of the Lift)	Cum	1	2.066	2.12	0.150	0.66
	S2 (Right Side of the Lift)	Cum	2	2.648	2.98	0.150	2.37
	S2 (Right Side of the Lift)	Cum	2	3.315	2.09	0.150	2.08
	S2 (Right Side of the Lift)	Cum	2	2.959	2.59	0.150	2.30
	S2 (Right Side of the Lift)	Cum	1	2.75	1.97	0.150	0.81
	S2 (Right Side of the Lift)	Cum	1	1.975	1.975	0.150	0.59
	S3 (Right Side of the Lift)	Cum	1	1.974	1.60	0.150	0.47

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	S3 (Right Side of the Lift)	Cum	1	2.625	1.60	0.150	0.63
	S3 (Right Side of the Lift)	Cum	1	2.465	1.60	0.150	0.59
	S3 (Right Side of the Lift)	Cum	1	2.5	1.60	0.150	0.60
	S3 (Right Side of the Lift)	Cum	1	4.925	2.26	0.150	1.67
	S3 (Right Side of the Lift)	Cum	1	4.925	2.26	0.150	1.67
	S3 (Right Side of the Lift)	Cum	1	4.925	2.47	0.150	1.82
	S3 (Right Side of the Lift)	Cum	1	4.925	2.50	0.150	1.85
	S3 (Right Side of the Lift)	Cum	1	3.231	2.26	0.150	1.09
	S3 (Right Side of the Lift)	Cum	1	3.231	2.26	0.150	1.09
	S3 (Right Side of the Lift)	Cum	1	3.231	2.47	0.150	1.19
	S3 (Right Side of the Lift)	Cum	1	3.231	2.50	0.150	1.21
	S3 (Front Side of the Lift)	Cum	1	2.09	3.93	0.150	1.23
	S1 (Front Side of the Lift)	Cum	1	2.262	3.65	0.150	1.24
	S1 (Front Side of the Lift)	Cum	1	4.403	3.92	0.150	2.59
	S1 (Left Side of the Lift)	Cum	1	4.52952		0.150	0.68
	S1 (Left Side of the Lift)	Cum	1	3.179	4.542	0.150	2.17
	S2 (Right Side of the Lift)	Cum	1	2.12	3.173	0.150	1.01
	S2 (Right Side of the Lift)	Cum	1	1.952	1.138	0.150	0.33
	S1 (Front Side of the Lift)	Cum	1	4.357	2.094	0.150	1.37
	S1 (Front Side of the Lift)	Cum	1	4.357	3.178	0.150	2.08
	S1 (Front Side of the Lift)	Cum	1	4.357	3.073	0.150	2.01
	S1 (Front Side of the Lift)	Cum	1	4.628079		0.150	0.69
	S1 (Front Side of the Lift)	Cum	1	4.621	3.581	0.150	2.48
	S1 (Front Side of the Lift)	Cum	1	2.094	3.581	0.150	1.12
	S1 (Front Side of the Lift)	Cum	1	3.178	3.581	0.150	1.71
	S1 (Front Side of the Lift)	Cum	1	3.073	3.581	0.150	1.65
	S1 (Left Side of the External Staircase)	Cum	1	4.00	2.81	0.150	1.69
	S1 (Left Side of the External Staircase)	Cum	1	4.00	3.71	0.150	2.22
	S4 (Toilet Slab)	Cum	2	3.07	1.77	0.125	1.36
	S4 (Toilet Slab)	Cum	6	3.07	1.77	0.125	4.07
	S3 (Passage Slab)	Cum	1	4.35	1.95	0.150	1.28
	S3 (Passage Slab)	Cum	1	3.62	1.95	0.150	1.06
	S3 (Passage Slab)	Cum	1	3.99	1.95	0.150	1.17
	S3 (Passage Slab)	Cum	1	1.85	1.95	0.150	0.54
	Column - Second Floor to Third Floor						
	C1	Cum	1	0.60	0.23	4.00	0.55
	C2	Cum	1	0.60	0.30	4.00	0.72
	C3	Cum	1	0.60	0.30	4.00	0.72
	C4	Cum	1	0.60	0.30	4.00	0.72
	C5	Cum	1	0.60	0.30	4.00	0.72
	C6	Cum	1	0.60	0.30	4.00	0.72
	C7	Cum	1	0.60	0.23	4.00	0.55
	C8	Cum	1	0.60	0.30	4.00	0.72
	C9	Cum	1	0.60	0.30	4.00	0.72
	C10	Cum	1	0.60	0.23	4.00	0.55
	C11	Cum	1	0.60	0.23	4.00	0.55
	C12	Cum	1	0.60	0.23	4.00	0.55
	C13	Cum	1	0.60	0.30	4.00	0.72
	C14	Cum	1	0.60	0.30	4.00	0.72
	C15	Cum	1	0.60	0.30	4.00	0.72
	C16	Cum	1	0.60	0.30	4.00	0.72
	C17	Cum	1	0.45	0.23	4.00	0.41
	C18	Cum	1	0.45	0.23	4.00	0.41
	C19	Cum	1	0.45	0.23	4.00	0.41
	C20	Cum	1	0.60	0.23	4.00	0.55
	C21	Cum	1	0.60	0.23	4.00	0.55
	C22	Cum	1	0.60	0.30	4.00	0.72
	C23	Cum	1	0.60	0.23	4.00	0.55
	C24	Cum	1	0.60	0.23	4.00	0.55
	C25	Cum	1	0.50	0.50	4.00	1.00
	C26	Cum	1	0.60	0.23	4.00	0.55
	C27	Cum	1	0.60	0.23	4.00	0.55
	C28	Cum	1	0.60	0.23	4.00	0.55
	C29	Cum	1	0.60	0.23	4.00	0.55
	C30	Cum	1	0.60	0.23	4.00	0.55
	Lift Wall						
	Long Wall	Cum	1	2.71	0.23	4.00	2.49
	Short Wall	Cum	1	2.48	0.23	4.00	2.28
	Staircase RCC						
	Step	Cum	22	1.5	0.02		0.74
	Horizontal Length of Waist Slab = Tread X No. of Steps =0.3 X						

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	Height of the top of the landing from the floor = No. of Riser X Ht. of Riser = 12 X 0.150 = 1.8 m						
	Inclined Length of Waist Slab = Sqrt ((Horizontal Length)^2+(Height)^2) =Sqrt ((3.3)^2+(1.8)^2) =3.76 m						
	Flight waist slab - 1	Cum	1	3.76	1.50	0.15	0.85
	Flight waist slab - 2	Cum	1	3.76	1.50	0.15	0.85
	Landing	Cum	1	3	1.50	0.15	0.68
						Total	153.48
	Terrace Floor Beams						
	B32	Cum	1	4.36	0.23	0.600	0.60
	B32	Cum	1	4.33	0.23	0.600	0.60
	B3	Cum	1	2.55	0.23	0.600	0.35
	B6	Cum	1	2.96	0.23	0.600	0.41
	B7	Cum	1	2.89	0.23	0.600	0.40
	B9	Cum	1	2.96	0.23	0.600	0.41
	B11	Cum	1	2.81	0.23	0.600	0.39
	B31	Cum	1	8.79	0.30	0.750	1.98
	B4	Cum	1	3.24	0.23	0.600	0.45
	B6	Cum	1	3.39	0.23	0.600	0.47
	B7	Cum	1	3.36	0.23	0.600	0.46
	B9	Cum	1	3.36	0.23	0.600	0.46
	B11	Cum	1	3.23	0.23	0.600	0.45
	B31	Cum	1	8.79	0.30	0.750	1.98
	B4	Cum	1	4.93	0.23	0.600	0.68
	B6	Cum	1	5.14	0.23	0.600	0.71
	B7	Cum	1	5.14	0.23	0.600	0.71
	B9	Cum	1	5.14	0.23	0.600	0.71
	B11	Cum	1	4.93	0.23	0.600	0.68
	B31	Cum	1	8.79	0.30	0.750	1.98
	B4	Cum	1	4.41	0.23	0.600	0.61
	B6	Cum	1	4.57	0.23	0.600	0.63
	B7	Cum	1	4.51	0.23	0.600	0.62
	B9	Cum	1	4.57	0.23	0.600	0.63
	B11	Cum	1	4.28	0.23	0.600	0.59
	B31	Cum	1	9.09	0.30	0.750	2.05
	B30	Cum	1	1.97	0.23	0.450	0.20
	B30	Cum	1	2.50	0.23	0.450	0.26
	B30	Cum	1	1.89	0.23	0.450	0.20
	B30	Cum	1	2.48	0.23	0.450	0.26
	B29	Cum	1	3.96	0.23	0.450	0.41
	B29	Cum	1	4.53	0.23	0.450	0.47
	B3	Cum	1	2.21	0.23	0.600	0.30
	B2	Cum	1	2.23	0.23	0.450	0.23
	B5	Cum	1	2.21	0.23	0.600	0.30
	B27	Cum	1	2.09	0.23	0.450	0.22
	B26	Cum	1	4.32	0.23	0.600	0.60
	B8	Cum	1	2.09	0.23	0.600	0.29
	B10	Cum	1	1.86	0.23	0.450	0.19
	B2	Cum	1	1.09	0.23	0.450	0.11
	B2	Cum	1	1.78	0.23	0.450	0.18
	B20	Cum	1	4.93	0.23	0.600	0.68
	LB1	Cum	1	2.25	0.23	0.450	0.23
	B27	Cum	1	3.65	0.23	0.450	0.38
	B8	Cum	1	3.34	0.23	0.600	0.46
	B9	Cum	1	3.00	0.23	0.600	0.41
	B21	Cum	1	3.68	0.23	0.600	0.51
	B20	Cum	1	2.79	0.23	0.600	0.39
	B12	Cum	1	5.70	0.23	0.600	0.79
	B13	Cum	1	2.78	0.23	0.600	0.38
	B25	Cum	1	4.54	0.23	0.600	0.63
	B26	Cum	1	4.10	0.23	0.600	0.57
	B20	Cum	1	4.79	0.23	0.600	0.66
	B24	Cum	1	4.35	0.23	0.600	0.60
	B25	Cum	1	4.25	0.23	0.600	0.59
	B25	Cum	1	4.36	0.23	0.600	0.60
	B13	Cum	1	2.97	0.23	0.600	0.41
	B27	Cum	1	4.24	0.23	0.450	0.44
	B14	Cum	1	4.51	0.23	0.600	0.62
	B15	Cum	1	6.42	0.23	0.600	0.89
	B20	Cum	1	4.73	0.23	0.600	0.65
	B24	Cum	1	3.60	0.23	0.600	0.50
	B25	Cum	1	3.41	0.23	0.600	0.47

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	B25	Cum	1	3.58	0.23	0.600	0.49
	B27	Cum	1	3.30	0.23	0.450	0.34
	B16	Cum	1	6.23	0.23	0.600	0.86
	B17	Cum	1	6.45	0.23	0.600	0.89
	B20	Cum	1	5.06	0.23	0.600	0.70
	B19	Cum	1	3.92	0.23	0.600	0.54
	B22	Cum	2	4.00	0.23	0.600	1.10
	B19	Cum	1	3.92	0.23	0.600	0.54
	B19	Cum	1	3.95	0.23	0.600	0.55
	B27	Cum	1	3.98	0.23	0.450	0.41
	B18	Cum	1	1.97	0.23	0.450	0.20
	B18	Cum	1	1.96	0.23	0.450	0.20
	B22	Cum	1	3.02	0.23	0.600	0.42
	B18	Cum	1	4.05	0.23	0.450	0.42
	B2	Cum	1	1.99	0.23	0.450	0.21
	B2	Cum	1	0.60	0.23	0.450	0.06
	Terrace Floor Slab						
	S2	Cum	1	2.06	2.03	0.150	0.63
	S2	Cum	1	0.61	1.01	0.150	0.09
	S2	Cum	1	3.00	2.50	0.150	1.12
	S2	Cum	1	2.09	2.96	0.150	0.93
	S2	Cum	1	2.59	2.96	0.150	1.15
	S3	Cum	1	3.39	1.97	0.150	1.00
	S3	Cum	1	3.39	2.50	0.150	1.27
	S3	Cum	1	3.39	2.48	0.150	1.26
	S3	Cum	1	3.39	2.47	0.150	1.25
	S3	Cum	1	4.93	1.98	0.150	1.46
	S3	Cum	1	4.93	2.63	0.150	1.94
	S3	Cum	1	4.93	2.47	0.150	1.82
	S3	Cum	1	4.93	2.47	0.150	1.83
	S3	Cum	1	1.97	1.75	0.150	0.52
	S3	Cum	1	2.50	1.75	0.150	0.66
	S3	Cum	1	1.89	1.75	0.150	0.50
	S3	Cum	1	2.48	1.75	0.150	0.65
	S3	Cum	1	1.97	2.75	0.150	0.81
	S3	Cum	1	2.50	2.75	0.150	1.03
	S3	Cum	1	1.89	2.75	0.150	0.78
	S3	Cum	1	2.48	2.75	0.150	1.02
	S2	Cum	1	1.98	1.27	0.150	0.38
	S3	Cum	1	3.93	2.12	0.150	1.25
	S2	Cum	1	3.17	2.12	0.150	1.01
	S1	Cum	1	3.65	2.30	0.150	1.26
	S1	Cum	1	4.40	3.92	0.150	2.59
	S1	Cum	1	4.54	3.21	0.150	2.19
	S1	Cum	1	4.76	3.21	0.150	2.29
	S1	Cum	1	4.60	2.98	0.150	2.06
	S1	Cum	1	4.36	2.10	0.150	1.37
	S2	Cum	1	4.36	3.18	0.150	2.08
	S1	Cum	1	3.00	2.99	0.150	1.35
	S1	Cum	1	3.00	1.15	0.150	0.52
	S1	Cum	1	4.66	3.58	0.150	2.50
	S1	Cum	1	2.09	3.58	0.150	1.12
	S1	Cum	1	3.21	3.58	0.150	1.72
	S1	Cum	1	2.97	3.58	0.150	1.59
	S1	Cum	1	4.00	3.92	0.150	2.35
	S1	Cum	1	4.78	4.00	0.150	2.87
	S4	Cum	1	2.02	1.78	0.125	0.45
	S4	Cum	1	1.92	1.78	0.125	0.43
	S4	Cum	1	1.97	1.20	0.125	0.30
	S4	Cum	1	1.96	1.20	0.125	0.29
	Column - Third Floor to Terrace Floor						
	C1	Cum	1	0.60	0.23	4.00	0.55
	C2	Cum	1	0.60	0.30	4.00	0.72
	C3	Cum	1	0.60	0.30	4.00	0.72
	C4	Cum	1	0.60	0.30	4.00	0.72
	C5	Cum	1	0.60	0.30	4.00	0.72
	C6	Cum	1	0.60	0.30	4.00	0.72
	C7	Cum	1	0.60	0.23	4.00	0.55
	C8	Cum	1	0.60	0.30	4.00	0.72
	C9	Cum	1	0.60	0.30	4.00	0.72
	C10	Cum	1	0.60	0.23	4.00	0.55
	C11	Cum	1	0.60	0.23	4.00	0.55

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	C12	Cum	1	0.60	0.23	4.00	0.55
	C13	Cum	1	0.60	0.30	4.00	0.72
	C14	Cum	1	0.60	0.30	4.00	0.72
	C15	Cum	1	0.60	0.30	4.00	0.72
	C16	Cum	1	0.60	0.30	4.00	0.72
	C17	Cum	1	0.45	0.23	4.00	0.41
	C18	Cum	1	0.45	0.23	4.00	0.41
	C19	Cum	1	0.45	0.23	4.00	0.41
	C20	Cum	1	0.60	0.23	4.00	0.55
	C21	Cum	1	0.60	0.23	4.00	0.55
	C22	Cum	1	0.60	0.30	4.00	0.72
	C23	Cum	1	0.60	0.23	4.00	0.55
	C24	Cum	1	0.60	0.23	4.00	0.55
	C25	Cum	1	0.50	0.50	4.00	1.00
	C26	Cum	1	0.60	0.23	4.00	0.55
	C27	Cum	1	0.60	0.23	4.00	0.55
	C28	Cum	1	0.60	0.23	4.00	0.55
	C29	Cum	1	0.60	0.23	4.00	0.55
	C30	Cum	1	0.60	0.23	4.00	0.55
	Lift Wall						
	Long Wall	Cum	1	2.71	0.23	4.00	2.49
	Short Wall	Cum	1	2.48	0.23	4.00	2.28
	Staircase RCC						
	Step	Cum	22	1.5	0.02		0.74
	Horizontal Length of Waist Slab = Tread X No. of Steps =0.3 X						
	Height of the top of the landing from the floor = No. of Riser X Ht. of Riser = 12 X 0.150 = 1.8 m						
	Inclined Length of Waist Slab = Sqrt ((Horizontal Length)^2+(Height)^2) =Sqrt ((3.3)^2+(1.8)^2) =3.76 m						
	Flight waist slab - 1	Cum	1	3.76	1.50	0.15	0.85
	Flight waist slab - 2	Cum	1	3.76	1.50	0.15	0.85
	Landing	Cum	1	3	1.50	0.15	0.68
						Total	124.18
12	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)						
	F1	Sqm	9.0	2.2	2.4	0.45	37.26
	F2	Sqm	8.0	2.5	2.7	0.45	37.44
	F3	Sqm	11.0	2.7	2.9	0.45	55.44
	F4	Sqm	1.0	3.0	3.0	0.45	5.40
	F7	Sqm	1.0	1.9	1.6	0.45	3.15
	Lift	Sqm	1.0	3.5	3.5	2.00	28.08
		Sqm				Total	166.77
13	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						
	PB1	Sqm	1	1.664	1.130		1.88
	PB1	Sqm	1	1.078	1.130		1.22
	PB2	Sqm	1	2.05	1.130		2.32
	PB4	Sqm	1	2.883	1.130		3.26
	PB6	Sqm	1	2.118	1.130		2.39
	PB3	Sqm	1	4.533	1.130		5.12
	PB3	Sqm	1	4.93	1.130		5.57
	PB3	Sqm	1	3.238	1.130		3.66
	PB2	Sqm	1	2.549	1.130		2.88
	PB6	Sqm	1	3.338	1.130		3.77
	PB4	Sqm	1	0.908	1.130		1.03
	PB4	Sqm	1	5.063	1.130		5.72

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	PB4	Sqm	1	3.321	1.130		3.75
	PB4	Sqm	1	2.959	1.130		3.34
	PB26	Sqm	1	1.381	1.130		1.56
	PB26	Sqm	1	3.726	1.130		4.21
	PB6	Sqm	1	1.828	1.130		2.07
	PB8	Sqm	1	2.959	1.130		3.34
	PB29	Sqm	1	4.261	1.130		4.81
	PB29	Sqm	1	4.326	1.130		4.89
	PB27	Sqm	3	8.793	1.500		39.57
	PB12	Sqm	1	2.809	1.130		3.17
	PB12	Sqm	1	3.231	1.130		3.65
	PB12	Sqm	1	4.925	1.130		5.57
	PB11	Sqm	1	4.279	1.130		4.84
	PB28	Sqm	3	1.142	1.130		3.87
	PB26	Sqm	1	3.736	1.130		4.22
	PB7	Sqm	2	1.82	1.130		4.11
	PB7	Sqm	2	3.007	1.130		6.80
	PB8	Sqm	1	5.063	1.130		5.72
	PB8	Sqm	1	4.532	1.130		5.12
	PB26	Sqm	1	5.339	1.130		6.03
	PB25	Sqm	1	3.962	1.130		4.48
	PB25	Sqm	1	4.53	1.130		5.12
	PB11	Sqm	1	4.395	1.130		4.97
	PB18	Sqm	1	4.926	1.130		5.57
	PB19	Sqm	1	3.684	1.130		4.16
	PB9	Sqm	1	3.189	1.130		3.60
	PB10	Sqm	1	3	1.130		3.39
	PB14	Sqm	1	8.284	1.130		9.36
	PB23	Sqm	2	4.1	1.13		9.27
	PB18	Sqm	1	2.726	1.13		3.08
	PB18	Sqm	1	4.83	1.13		5.46
	PB18	Sqm	1	4.729	1.13		5.34
	PB18	Sqm	1	5.059	1.13		5.72
	PB24	Sqm	1	4.239	1.13		4.79
	PB25	Sqm	1	5.725	1.13		6.47
	PB15	Sqm	1	4.474	1.13		5.06
	PB24	Sqm	1	3.446	1.13		3.89
	PB24	Sqm	1	3.883	1.13		4.39
	PB24	Sqm	1	1.721	1.13		1.94
	PB25	Sqm	1	3.446	1.13		3.89
	PB25	Sqm	1	3.883	1.13		4.39
	PB25	Sqm	1	1.721	1.13		1.94
	PB16	Sqm	1	6.203	1.13		7.01
	PB16	Sqm	1	6.344	1.13		7.17
	PB16	Sqm	1	3.233	1.13		3.65
	PB17	Sqm	2	3.922	1.13		8.86
	PB17	Sqm	2	3.922	1.13		8.86
	PB17	Sqm	2	4	1.13		9.04
	PB4	Sqm	1	4.018	1.13		4.54
	PB18	Sqm	1	1.841	1.13		2.08
	PB20	Sqm	3	1.821	1.13		6.17
	CB14	Sqm	1	2.167	1.13		2.45
	Lintel						
	Ground Floor	Sqm	2	100.00		0.20	40.00
						Total	365.59
	First Floor-Beam						
	B1	Sqm	1.00	23.14	1.13		26.14
	B2	Sqm	1.00	0.94	1.13		1.06
	B3	Sqm	1.00	2.12	1.13		2.40
	B4	Sqm	1.00	4.41	1.43		6.30
	B4	Sqm	1.00	4.93	1.43		7.04
	B4	Sqm	1.00	3.23	1.43		4.62
	B3	Sqm	1.00	2.55	1.13		2.88
	B2	Sqm	1.00	1.78	1.13		2.01
	B5	Sqm	1.00	2.12	1.43		3.03
	B6	Sqm	1.00	4.53	1.43		6.48
	B6	Sqm	1.00	5.04	1.43		7.20
	B6	Sqm	1.00	3.32	1.43		4.75
	B6	Sqm	1.00	2.98	1.43		4.26
	B7	Sqm	1.00	4.53	1.43		6.48
	B7	Sqm	1.00	5.04	1.43		7.20
	B7	Sqm	1.00	3.32	1.43		4.75
	B7	Sqm	1.00	2.98	1.43		4.26
	B9	Sqm	1.00	4.53	1.43		6.48

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	B9	Sqm	1.00	5.04	1.43		7.20
	B9	Sqm	1.00	3.32	1.43		4.75
	B9	Sqm	1.00	2.98	1.43		4.26
	B11	Sqm	1.00	4.53	1.43		6.48
	B11	Sqm	1.00	5.04	1.43		7.20
	B11	Sqm	1.00	3.32	1.43		4.75
	B11	Sqm	1.00	2.98	1.43		4.26
	B31	Sqm	3.00	8.79	1.8		47.48
	B29	Sqm	1.00	3.96	1.13		4.48
	B29	Sqm	1.00	4.60	1.13		5.20
	B30	Sqm	1.00	9.53	1.13		10.77
	B32	Sqm	1.00	3.96	1.13		4.48
	B32	Sqm	1.00	4.60	1.13		5.20
	B2	Sqm	2.00	1.98	1.13		4.46
	B27	Sqm	2.00	3.65	1.13		8.25
	B8	Sqm	1.00	3.19	1.43		4.56
	B9	Sqm	1.00	2.97	1.43		4.25
	B8	Sqm	1.00	2.09	1.43		2.99
	B25	Sqm	1.00	4.54	1.43		6.49
	B26	Sqm	2.00	4.10	1.43		11.73
	B24	Sqm	1.00	4.36	1.43		6.23
	B25	Sqm	2.00	4.36	1.43		12.46
	B27	Sqm	1.00	4.36	1.13		4.92
	B28	Sqm	1.00	4.36	1.13		4.92
	B24	Sqm	1.00	3.59	1.43		5.13
	B25	Sqm	2.00	3.59	1.43		10.26
	B27	Sqm	1.00	3.59	1.13		4.05
	B28	Sqm	1.00	3.59	1.13		4.05
	B12	Sqm	1.00	5.70	1.43		8.15
	B13	Sqm	1.00	2.78	1.43		3.98
	CB13	Sqm	1.00	2.17	1.43		3.11
	CB15	Sqm	1.00	2.17	1.43		3.11
	CB17	Sqm	1.00	2.17	1.43		3.11
	CB19	Sqm	2.00	2.17	1.43		6.21
	B10	Sqm	1.00	1.86	1.13		2.10
	B28	Sqm	1.00	1.14	1.13		1.29
	B15	Sqm	1.00	6.42	1.43		9.18
	B15	Sqm	1.00	6.42	1.43		9.18
	B14	Sqm	1.00	4.51	1.43		6.45
	B16	Sqm	1.00	6.42	1.43		9.18
	B22	Sqm	3.00	4.00	1.43		17.16
	B27	Sqm	1.00	4.00	1.13		4.52
	B28	Sqm	1.00	4.00	1.13		4.52
	B20	Sqm	1.00	16.37	1.43		23.40
	B21	Sqm	1.00	3.68	1.43		5.27
	B20	Sqm	1.00	4.93	1.43		7.04
	B18	Sqm	4.00	3.07	1.13		13.86
	B23	Sqm	4.00	1.02	1.13		4.61
	B19	Sqm	1.00	11.80	1.43		16.87
	B28	Sqm	2.00	1.84	1.13		4.16
	B1	Sqm	1.00	25.69	1.13		29.03
	B1	Sqm	1.00	10.59	1.13		11.96
	CB7	Sqm	1.00	0.58	1.43		0.83
	CB3	Sqm	1.00	0.69	1.13		0.78
	CB32	Sqm	1.00	1.03	1.2		1.24
	CB31	Sqm	3.00	0.75	1.8		4.05
	CB27	Sqm	1.00	0.43	1.43		0.62
	CB29	Sqm	1.00	0.43	1.43		0.62
	CB1	Sqm	1.00	0.67	1.43		0.95
	CB2	Sqm	1.00	0.95	1.13		1.07
	CB8	Sqm	1.00	0.92	1.43		1.32
	CB12	Sqm	1.00	0.90	1.43		1.29
	CB14	Sqm	1.00	0.90	1.43		1.29
	CB16	Sqm	1.00	0.90	1.43		1.29
	CB19	Sqm	1.00	1.00	1.43		1.43
	LB1	Sqm	1.00	2.25	1.13		2.54
	Lintel						
	First Floor	Sqm	2.00	135.00		0.20	54.00
						Total	599.38
	Second Floor Beam						
	B1	Sqm	1	23.137	1.13		26.14
	B2	Sqm	1	0.936	1.13		1.06
	B3	Sqm	1	2.12	1.13		2.40

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	B4	Sqm	1	4.408	1.43		6.30
	B4	Sqm	1	4.925	1.43		7.04
	B4	Sqm	1	3.231	1.43		4.62
	B3	Sqm	1	2.549	1.13		2.88
	B2	Sqm	1	1.776	1.13		2.01
	B5	Sqm	1	2.12	1.43		3.03
	B6	Sqm	1	4.532	1.43		6.48
	B6	Sqm	1	5.036	1.43		7.20
	B6	Sqm	1	3.321	1.43		4.75
	B6	Sqm	1	2.978	1.43		4.26
	B7	Sqm	1	4.532	1.43		6.48
	B7	Sqm	1	5.036	1.43		7.20
	B7	Sqm	1	3.321	1.43		4.75
	B7	Sqm	1	2.978	1.43		4.26
	B9	Sqm	1	4.532	1.43		6.48
	B9	Sqm	1	5.036	1.43		7.20
	B9	Sqm	1	3.321	1.43		4.75
	B9	Sqm	1	2.978	1.43		4.26
	B11	Sqm	1	4.532	1.43		6.48
	B11	Sqm	1	5.036	1.43		7.20
	B11	Sqm	1	3.321	1.43		4.75
	B11	Sqm	1	2.978	1.43		4.26
	B31	Sqm	3	8.793	1.8		47.48
	B29	Sqm	1	3.962	1.13		4.48
	B29	Sqm	1	4.599	1.13		5.20
	B30	Sqm	1	9.532	1.13		10.77
	B32	Sqm	1	3.962	1.13		4.48
	B32	Sqm	1	4.599	1.13		5.20
	B2	Sqm	2	1.975	1.13		4.46
	B27	Sqm	2	3.651	1.13		8.25
	B8	Sqm	1	3.189	1.43		4.56
	B9	Sqm	1	2.97	1.43		4.25
	B8	Sqm	1	2.09	1.43		2.99
	B25	Sqm	1	4.54	1.43		6.49
	B26	Sqm	2	4.102	1.43		11.73
	B24	Sqm	1	4.357	1.43		6.23
	B25	Sqm	2	4.357	1.43		12.46
	B27	Sqm	1	4.357	1.13		4.92
	B28	Sqm	1	4.357	1.13		4.92
	B24	Sqm	1	3.587	1.43		5.13
	B25	Sqm	2	3.587	1.43		10.26
	B27	Sqm	1	3.587	1.13		4.05
	B28	Sqm	1	3.587	1.13		4.05
	B12	Sqm	1	5.702	1.43		8.15
	B13	Sqm	1	2.78	1.43		3.98
	CB13	Sqm	1	2.172	1.43		3.11
	CB15	Sqm	1	2.172	1.43		3.11
	CB17	Sqm	1	2.172	1.43		3.11
	CB19	Sqm	2	2.172	1.43		6.21
	B10	Sqm	1	1.861	1.13		2.10
	B28	Sqm	1	1.138	1.13		1.29
	B15	Sqm	1	6.421	1.43		9.18
	B15	Sqm	1	6.421	1.43		9.18
	B14	Sqm	1	4.51	1.43		6.45
	B16	Sqm	1	6.421	1.43		9.18
	B22	Sqm	3	4	1.43		17.16
	B27	Sqm	1	4	1.13		4.52
	B28	Sqm	1	4	1.13		4.52
	B20	Sqm	1	16.366	1.43		23.40
	B21	Sqm	1	3.684	1.43		5.27
	B20	Sqm	1	4.926	1.43		7.04
	B18	Sqm	4	3.067	1.13		13.86
	B23	Sqm	4	1.021	1.13		4.61
	B19	Sqm	1	11.796	1.43		16.87
	B28	Sqm	2	1.841	1.13		4.16
	B1	Sqm	1	25.69	1.13		29.03
	B1	Sqm	1	10.586	1.13		11.96
	CB7	Sqm	1	0.578	1.43		0.83
	CB3	Sqm	1	0.693	1.13		0.78
	CB32	Sqm	1	1.03	1.2		1.24
	CB31	Sqm	3	0.75	1.8		4.05
	CB27	Sqm	1	0.432	1.43		0.62
	CB29	Sqm	1	0.432	1.43		0.62
	CB1	Sqm	1	0.666	1.43		0.95

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	CB2	Sqm	1	0.945	1.13		1.07
	CB8	Sqm	1	0.922	1.43		1.32
	CB12	Sqm	1	0.9	1.43		1.29
	CB14	Sqm	1	0.9	1.43		1.29
	CB16	Sqm	1	0.9	1.43		1.29
	CB19	Sqm	1	1	1.43		1.43
	LB1	Sqm	1	2.252	1.13		2.54
	Lintel						
	Second Floor	Sqm	2	145.00		0.20	58.00
		Sqm				Total	603.38
	Third Floor Beam						
	B1	Sqm	1	23.137	1.13		26.14
	B2	Sqm	1	0.936	1.13		1.06
	B3	Sqm	1	2.12	1.13		2.40
	B4	Sqm	1	4.408	1.43		6.30
	B4	Sqm	1	4.925	1.43		7.04
	B4	Sqm	1	3.231	1.43		4.62
	B3	Sqm	1	2.549	1.13		2.88
	B2	Sqm	1	1.776	1.13		2.01
	B5	Sqm	1	2.12	1.43		3.03
	B6	Sqm	1	4.532	1.43		6.48
	B6	Sqm	1	5.036	1.43		7.20
	B6	Sqm	1	3.321	1.43		4.75
	B6	Sqm	1	2.978	1.43		4.26
	B7	Sqm	1	4.532	1.43		6.48
	B7	Sqm	1	5.036	1.43		7.20
	B7	Sqm	1	3.321	1.43		4.75
	B7	Sqm	1	2.978	1.43		4.26
	B9	Sqm	1	4.532	1.43		6.48
	B9	Sqm	1	5.036	1.43		7.20
	B9	Sqm	1	3.321	1.43		4.75
	B9	Sqm	1	2.978	1.43		4.26
	B11	Sqm	1	4.532	1.43		6.48
	B11	Sqm	1	5.036	1.43		7.20
	B11	Sqm	1	3.321	1.43		4.75
	B11	Sqm	1	2.978	1.43		4.26
	B31	Sqm	3	8.793	1.8		47.48
	B29	Sqm	1	3.962	1.13		4.48
	B29	Sqm	1	4.599	1.13		5.20
	B30	Sqm	1	9.532	1.13		10.77
	B32	Sqm	1	3.962	1.13		4.48
	B32	Sqm	1	4.599	1.13		5.20
	B2	Sqm	2	1.975	1.13		4.46
	B27	Sqm	2	3.651	1.13		8.25
	B8	Sqm	1	3.189	1.43		4.56
	B9	Sqm	1	2.97	1.43		4.25
	B8	Sqm	1	2.09	1.43		2.99
	B25	Sqm	1	4.54	1.43		6.49
	B26	Sqm	2	4.102	1.43		11.73
	B24	Sqm	1	4.357	1.43		6.23
	B25	Sqm	2	4.357	1.43		12.46
	B27	Sqm	1	4.357	1.13		4.92
	B28	Sqm	1	4.357	1.13		4.92
	B24	Sqm	1	3.587	1.43		5.13
	B25	Sqm	2	3.587	1.43		10.26
	B27	Sqm	1	3.587	1.13		4.05
	B28	Sqm	1	3.587	1.13		4.05
	B12	Sqm	1	5.702	1.43		8.15
	B13	Sqm	1	2.78	1.43		3.98
	CB13	Sqm	1	2.172	1.43		3.11
	CB15	Sqm	1	2.172	1.43		3.11
	CB17	Sqm	1	2.172	1.43		3.11
	CB19	Sqm	2	2.172	1.43		6.21
	B10	Sqm	1	1.861	1.13		2.10
	B28	Sqm	1	1.138	1.13		1.29
	B15	Sqm	1	6.421	1.43		9.18
	B15	Sqm	1	6.421	1.43		9.18
	B14	Sqm	1	4.51	1.43		6.45
	B16	Sqm	1	6.421	1.43		9.18
	B22	Sqm	3	4	1.43		17.16
	B27	Sqm	1	4	1.13		4.52
	B28	Sqm	1	4	1.13		4.52
	B20	Sqm	1	16.366	1.43		23.40

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	B21	Sqm	1	3.684	1.43		5.27
	B20	Sqm	1	4.926	1.43		7.04
	B18	Sqm	4	3.067	1.13		13.86
	B23	Sqm	4	1.021	1.13		4.61
	B19	Sqm	1	11.796	1.43		16.87
	B28	Sqm	2	1.841	1.13		4.16
	B1	Sqm	1	25.69	1.13		29.03
	B1	Sqm	1	10.586	1.13		11.96
	CB7	Sqm	1	0.578	1.43		0.83
	CB3	Sqm	1	0.693	1.13		0.78
	CB32	Sqm	1	1.03	1.2		1.24
	CB31	Sqm	3	0.75	1.8		4.05
	CB27	Sqm	1	0.432	1.43		0.62
	CB29	Sqm	1	0.432	1.43		0.62
	CB1	Sqm	1	0.666	1.43		0.95
	CB2	Sqm	1	0.945	1.13		1.07
	CB8	Sqm	1	0.922	1.43		1.32
	CB12	Sqm	1	0.9	1.43		1.29
	CB14	Sqm	1	0.9	1.43		1.29
	CB16	Sqm	1	0.9	1.43		1.29
	CB19	Sqm	1	1	1.43		1.43
	LB1	Sqm	1	2.252	1.13		2.54
	Lintel						
	Third Floor	Sqm	2	145.00		0.20	58.00
						Total	603.38
	Terrace Floor Beam						
	B32	Sqm	1	4.358	1.43		6.23
	B32	Sqm	1	4.326	1.43		6.19
	B3	Sqm	1	2.549	1.43		3.65
	B6	Sqm	1	2.959	1.43		4.23
	B7	Sqm	1	2.887	1.43		4.13
	B9	Sqm	1	2.959	1.43		4.23
	B11	Sqm	1	2.814	1.43		4.02
	B31	Sqm	1	8.793	1.8		15.83
	B4	Sqm	1	3.239	1.43		4.63
	B6	Sqm	1	3.393	1.43		4.85
	B7	Sqm	1	3.357	1.43		4.80
	B9	Sqm	1	3.357	1.43		4.80
	B11	Sqm	1	3.231	1.43		4.62
	B31	Sqm	1	8.793	1.8		15.83
	B4	Sqm	1	4.93	1.43		7.05
	B6	Sqm	1	5.135	1.43		7.34
	B7	Sqm	1	5.135	1.43		7.34
	B9	Sqm	1	5.135	1.43		7.34
	B11	Sqm	1	4.925	1.43		7.04
	B31	Sqm	1	8.793	1.8		15.83
	B4	Sqm	1	4.408	1.43		6.30
	B6	Sqm	1	4.568	1.43		6.53
	B7	Sqm	1	4.513	1.43		6.45
	B9	Sqm	1	4.568	1.43		6.53
	B11	Sqm	1	4.279	1.43		6.12
	B31	Sqm	1	9.093	1.8		16.37
	B30	Sqm	1	1.974	1.13		2.23
	B30	Sqm	1	2.497	1.13		2.82
	B30	Sqm	1	1.892	1.13		2.14
	B30	Sqm	1	2.478	1.13		2.80
	B29	Sqm	1	3.962	1.13		4.48
	B29	Sqm	1	4.53	1.13		5.12
	B3	Sqm	1	2.208	1.43		3.16
	B2	Sqm	1	2.233	1.13		2.52
	B5	Sqm	1	2.208	1.43		3.16
	B27	Sqm	1	2.09	1.13		2.36
	B26	Sqm	1	4.322	1.43		6.18
	B8	Sqm	1	2.09	1.43		2.99
	B10	Sqm	1	1.862	1.13		2.10
	B2	Sqm	1	1.087	1.13		1.23
	B2	Sqm	1	1.776	1.13		2.01
	B20	Sqm	1	4.926	1.43		7.04
	LB1	Sqm	1	2.25	1.13		2.54
	B27	Sqm	1	3.649	1.13		4.12
	B8	Sqm	1	3.335	1.43		4.77
	B9	Sqm	1	3	1.43		4.29
	B21	Sqm	1	3.684	1.43		5.27
	B20	Sqm	1	2.792	1.43		3.99

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	B12	Sqm	1	5.702	1.43		8.15
	B13	Sqm	1	2.783	1.43		3.98
	B25	Sqm	1	4.54	1.43		6.49
	B26	Sqm	1	4.1	1.43		5.86
	B20	Sqm	1	4.79	1.43		6.85
	B24	Sqm	1	4.352	1.43		6.22
	B25	Sqm	1	4.247	1.43		6.07
	B25	Sqm	1	4.356	1.43		6.23
	B13	Sqm	1	2.969	1.43		4.25
	B27	Sqm	1	4.239	1.13		4.79
	B14	Sqm	1	4.51	1.43		6.45
	B15	Sqm	1	6.422	1.43		9.18
	B20	Sqm	1	4.729	1.43		6.76
	B24	Sqm	1	3.601	1.43		5.15
	B25	Sqm	1	3.407	1.43		4.87
	B25	Sqm	1	3.581	1.43		5.12
	B27	Sqm	1	3.297	1.13		3.73
	B16	Sqm	1	6.228	1.43		8.91
	B17	Sqm	1	6.453	1.43		9.23
	B20	Sqm	1	5.059	1.43		7.23
	B19	Sqm	1	3.922	1.43		5.61
	B22	Sqm	2	4.003	1.43		11.45
	B19	Sqm	1	3.922	1.43		5.61
	B19	Sqm	1	3.952	1.43		5.65
	B27	Sqm	1	3.975	1.13		4.49
	B18	Sqm	1	1.967	1.13		2.22
	B18	Sqm	1	1.958	1.13		2.21
	B22	Sqm	1	3.022	1.43		4.32
	B18	Sqm	1	4.049	1.13		4.58
	B2	Sqm	1	1.986	1.13		2.24
	B2	Sqm	1	0.6	1.13		0.68
						Total	440.21
14	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						
	Column Foundation to FF Slab						
	Column RCC (Footing to Plinth Level)						
	C1	Sqm	1	1.66		2.2	3.65
	C2	Sqm	1	1.8		2.2	3.96
	C3	Sqm	1	1.8		2.2	3.96
	C4	Sqm	1	1.8		2.2	3.96
	C5	Sqm	1	1.8		2.2	3.96
	C6	Sqm	1	1.8		2.2	3.96
	C7	Sqm	1	1.66		2.2	3.65
	C8	Sqm	1	1.8		2.2	3.96
	C9	Sqm	1	1.8		2.2	3.96
	C10	Sqm	1	1.66		2.2	3.65
	C11	Sqm	1	1.66		2.2	3.65
	C12	Sqm	1	1.66		2.2	3.65
	C13	Sqm	1	1.8		2.2	3.96
	C14	Sqm	1	1.8		2.2	3.96
	C15	Sqm	1	1.8		2.2	3.96
	C16	Sqm	1	1.8		2.2	3.96
	C17	Sqm	1	1.36		2.2	2.99
	C18	Sqm	1	1.36		2.2	2.99
	C19	Sqm	1	1.36		2.2	2.99
	C20	Sqm	1	1.66		2.2	3.65
	C21	Sqm	1	1.66		2.2	3.65
	C22	Sqm	1	1.8		2.2	3.96
	C23	Sqm	1	1.66		2.2	3.65
	C24	Sqm	1	1.66		2.2	3.65
	C25	Sqm	1	2		2.2	4.40
	C26	Sqm	1	1.66		2.2	3.65
	C27	Sqm	1	1.66		2.2	3.65
	C28	Sqm	1	1.66		2.2	3.65
	C29	Sqm	1	1.66		2.2	3.65
	C30	Sqm	1	1.66		2.2	3.65
	Column RCC (Plinth to First Floor Level)						
	C1	Sqm	1	1.66		4	6.64
	C2	Sqm	1	1.8		4	7.20

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	C3	Sqm	1	1.8		4	7.20
	C4	Sqm	1	1.8		4	7.20
	C5	Sqm	1	1.8		4	7.20
	C6	Sqm	1	1.8		4	7.20
	C7	Sqm	1	1.66		4	6.64
	C8	Sqm	1	1.8		4	7.20
	C9	Sqm	1	1.8		4	7.20
	C10	Sqm	1	1.66		4	6.64
	C11	Sqm	1	1.66		4	6.64
	C12	Sqm	1	1.66		4	6.64
	C13	Sqm	1	1.8		4	7.20
	C14	Sqm	1	1.8		4	7.20
	C15	Sqm	1	1.8		4	7.20
	C16	Sqm	1	1.8		4	7.20
	C17	Sqm	1	1.36		4	5.44
	C18	Sqm	1	1.36		4	5.44
	C19	Sqm	1	1.36		4	5.44
	C20	Sqm	1	1.66		4	6.64
	C21	Sqm	1	1.66		4	6.64
	C22	Sqm	1	1.8		4	7.20
	C23	Sqm	1	1.66		4	6.64
	C24	Sqm	1	1.66		4	6.64
	C25	Sqm	1	2		4	8.00
	C26	Sqm	1	1.66		4	6.64
	C27	Sqm	1	1.66		4	6.64
	C28	Sqm	1	1.66		4	6.64
	C29	Sqm	1	1.66		4	6.64
	C30	Sqm	1	1.66		4	6.64
							315.70
	Column from First Floor to Second Floor						
	C1	Sqm	1	1.66		4	6.64
	C2	Sqm	1	1.8		4	7.20
	C3	Sqm	1	1.8		4	7.20
	C4	Sqm	1	1.8		4	7.20
	C5	Sqm	1	1.8		4	7.20
	C6	Sqm	1	1.8		4	7.20
	C7	Sqm	1	1.66		4	6.64
	C8	Sqm	1	1.8		4	7.20
	C9	Sqm	1	1.8		4	7.20
	C10	Sqm	1	1.66		4	6.64
	C11	Sqm	1	1.66		4	6.64
	C12	Sqm	1	1.66		4	6.64
	C13	Sqm	1	1.8		4	7.20
	C14	Sqm	1	1.8		4	7.20
	C15	Sqm	1	1.8		4	7.20
	C16	Sqm	1	1.8		4	7.20
	C17	Sqm	1	1.36		4	5.44
	C18	Sqm	1	1.36		4	5.44
	C19	Sqm	1	1.36		4	5.44
	C20	Sqm	1	1.66		4	6.64
	C21	Sqm	1	1.66		4	6.64
	C22	Sqm	1	1.8		4	7.20
	C23	Sqm	1	1.66		4	6.64
	C24	Sqm	1	1.66		4	6.64
	C25	Sqm	1	2		4	8.00
	C26	Sqm	1	1.66		4	6.64
	C27	Sqm	1	1.66		4	6.64
	C28	Sqm	1	1.66		4	6.64
	C29	Sqm	1	1.66		4	6.64
	C30	Sqm	1	1.66		4	6.64
						Total	203.68
	Column Second Floor to Third Floor						
	C1	Sqm	1	1.66		4	6.64
	C2	Sqm	1	1.8		4	7.20
	C3	Sqm	1	1.8		4	7.20
	C4	Sqm	1	1.8		4	7.20
	C5	Sqm	1	1.8		4	7.20
	C6	Sqm	1	1.8		4	7.20
	C7	Sqm	1	1.66		4	6.64
	C8	Sqm	1	1.8		4	7.20
	C9	Sqm	1	1.8		4	7.20
	C10	Sqm	1	1.66		4	6.64
	C11	Sqm	1	1.66		4	6.64
	C12	Sqm	1	1.66		4	6.64

Sr. No.	Description	Unit	No's	L	B	H	Qty.	
	C13	Sqm	1	1.8			4	7.20
	C14	Sqm	1	1.8			4	7.20
	C15	Sqm	1	1.8			4	7.20
	C16	Sqm	1	1.8			4	7.20
	C17	Sqm	1	1.36			4	5.44
	C18	Sqm	1	1.36			4	5.44
	C19	Sqm	1	1.36			4	5.44
	C20	Sqm	1	1.66			4	6.64
	C21	Sqm	1	1.66			4	6.64
	C22	Sqm	1	1.8			4	7.20
	C23	Sqm	1	1.66			4	6.64
	C24	Sqm	1	1.66			4	6.64
	C25	Sqm	1	2			4	8.00
	C26	Sqm	1	1.66			4	6.64
	C27	Sqm	1	1.66			4	6.64
	C28	Sqm	1	1.66			4	6.64
	C29	Sqm	1	1.66			4	6.64
	C30	Sqm	1	1.66			4	6.64
							Total	203.68
	Column Third Floor to Terrace Floor							
	C1	Sqm	1	1.66			4	6.64
	C2	Sqm	1	1.8			4	7.20
	C3	Sqm	1	1.8			4	7.20
	C4	Sqm	1	1.8			4	7.20
	C5	Sqm	1	1.8			4	7.20
	C6	Sqm	1	1.8			4	7.20
	C7	Sqm	1	1.66			4	6.64
	C8	Sqm	1	1.8			4	7.20
	C9	Sqm	1	1.8			4	7.20
	C10	Sqm	1	1.66			4	6.64
	C11	Sqm	1	1.66			4	6.64
	C12	Sqm	1	1.66			4	6.64
	C13	Sqm	1	1.8			4	7.20
	C14	Sqm	1	1.8			4	7.20
	C15	Sqm	1	1.8			4	7.20
	C16	Sqm	1	1.8			4	7.20
	C17	Sqm	1	1.36			4	5.44
	C18	Sqm	1	1.36			4	5.44
	C19	Sqm	1	1.36			4	5.44
	C20	Sqm	1	1.66			4	6.64
	C21	Sqm	1	1.66			4	6.64
	C22	Sqm	1	1.8			4	7.20
	C23	Sqm	1	1.66			4	6.64
	C24	Sqm	1	1.66			4	6.64
	C25	Sqm	1	2			4	8.00
	C26	Sqm	1	1.66			4	6.64
	C27	Sqm	1	1.66			4	6.64
	C28	Sqm	1	1.66			4	6.64
	C29	Sqm	1	1.66			4	6.64
	C30	Sqm	1	1.66			4	6.64
							Total	203.68
15	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of formwork for 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							
	First Floor Slab							
	S5 (Balcony Slab)	Sqm	1	4.6	0.996			4.58
	S5 (Balcony Slab)	Sqm	1	4.704	0.721			3.39
	S5 (Balcony Slab)	Sqm	1	0.76	0.76			0.58
	S5 (Balcony Slab)	Sqm	1	2.879	0.803			2.31
	S5 (Balcony Slab)	Sqm	1	3.239	0.739			2.39
	S5 (Balcony Slab)	Sqm	1	4.93	0.678			3.34
	S5 (Balcony Slab)	Sqm	1	4.408	0.558			2.46
	S5 (Balcony Slab)	Sqm	1	4.68	0.558			2.61
	S5 (Balcony Slab)	Sqm	1	2.019	0.558			1.13
	S5 (Balcony Slab)	Sqm	1	6.815	0.9			6.13
	S5 (Balcony Slab)	Sqm	1	5.046	0.9			4.54
	S5 (Balcony Slab)	Sqm	1	4.915	0.9			4.42
	S5 (Balcony Slab)	Sqm	1	4.747	0.9			4.27
	S5 (Balcony Slab)	Sqm	1	4	0.9			3.60

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	S2 (Right Side of the Lift)	Sqm	1	2.066	2.116		4.37
	S2 (Right Side of the Lift)	Sqm	2	2.648	2.978		15.77
	S2 (Right Side of the Lift)	Sqm	2	3.315	2.087		13.84
	S2 (Right Side of the Lift)	Sqm	2	2.959	2.592		15.34
	S2 (Right Side of the Lift)	Sqm	1	2.75	1.974		5.43
	S2 (Right Side of the Lift)	Sqm	1	1.975	1.975		3.90
	S3 (Right Side of the Lift)	Sqm	1	1.974	1.596		3.15
	S3 (Right Side of the Lift)	Sqm	1	2.625	1.596		4.19
	S3 (Right Side of the Lift)	Sqm	1	2.465	1.596		3.93
	S3 (Right Side of the Lift)	Sqm	1	2.5	1.596		3.99
	S3 (Right Side of the Lift)	Sqm	1	4.925	2.258		11.12
	S3 (Right Side of the Lift)	Sqm	1	4.925	2.258		11.12
	S3 (Right Side of the Lift)	Sqm	1	4.925	2.465		12.14
	S3 (Right Side of the Lift)	Sqm	1	4.925	2.5		12.31
	S3 (Right Side of the Lift)	Sqm	1	3.231	2.258		7.30
	S3 (Right Side of the Lift)	Sqm	1	3.231	2.258		7.30
	S3 (Right Side of the Lift)	Sqm	1	3.231	2.465		7.96
	S3 (Right Side of the Lift)	Sqm	1	3.231	2.5		8.08
	S3 (Front Side of the Lift)	Sqm	1	2.09	3.932		8.22
	S1 (Front Side of the Lift)	Sqm	1	2.262	3.653		8.26
	S1 (Front Side of the Lift)	Sqm	1	4.403	3.916		17.24
	S1 (Left Side of the Lift)	Sqm	1	4.52952	0		0.00
	S1 (Left Side of the Lift)	Sqm	1	3.179	4.542		14.44
	S2 (Right Side of the Lift)	Sqm	1	2.12	3.173		6.73
	S2 (Right Side of the Lift)	Sqm	1	1.952	1.138		2.22
	S1 (Front Side of the Lift)	Sqm	1	4.357	2.094		9.12
	S1 (Front Side of the Lift)	Sqm	1	4.357	3.178		13.85
	S1 (Front Side of the Lift)	Sqm	1	4.357	3.073		13.39
	S1 (Front Side of the Lift)	Sqm	1	4.628079	0		0.00
	S1 (Front Side of the Lift)	Sqm	1	4.621	3.581		16.55
	S1 (Front Side of the Lift)	Sqm	1	2.094	3.581		7.50
	S1 (Front Side of the Lift)	Sqm	1	3.178	3.581		11.38
	S1 (Front Side of the Lift)	Sqm	1	3.073	3.581		11.00
	S1 (Left Side of the External Staircase)	Sqm	1	4	2.814		11.26
	S1 (Left Side of the External Staircase)	Sqm	1	4	3.707		14.83
	S4 (Toilet Slab)	Sqm	2	3.067	1.77		10.86
	S4 (Toilet Slab)	Sqm	6	3.067	1.77		32.57
	S3 (Passage Slab)	Sqm	1	4.353	1.953		8.50
	S3 (Passage Slab)	Sqm	1	3.624	1.953		7.08
	S3 (Passage Slab)	Sqm	1	3.988	1.953		7.79
	S3 (Passage Slab)	Sqm	1	1.853	1.953		3.62
						Total	433.41
	Second Floor Slab						
	S5 (Balcony Slab)	Sqm	1	4.6	0.996		4.58
	S5 (Balcony Slab)	Sqm	1	4.704	0.721		3.39
	S5 (Balcony Slab)	Sqm	1	0.76	0.76		0.58
	S5 (Balcony Slab)	Sqm	1	2.879	0.803		2.31
	S5 (Balcony Slab)	Sqm	1	3.239	0.739		2.39
	S5 (Balcony Slab)	Sqm	1	4.93	0.678		3.34
	S5 (Balcony Slab)	Sqm	1	4.408	0.558		2.46
	S5 (Balcony Slab)	Sqm	1	4.68	0.558		2.61
	S5 (Balcony Slab)	Sqm	1	2.019	0.558		1.13
	S5 (Balcony Slab)	Sqm	1	6.815	0.9		6.13
	S5 (Balcony Slab)	Sqm	1	5.046	0.9		4.54
	S5 (Balcony Slab)	Sqm	1	4.915	0.9		4.42
	S5 (Balcony Slab)	Sqm	1	4.747	0.9		4.27
	S5 (Balcony Slab)	Sqm	1	4	0.9		3.60
	S2 (Right Side of the Lift)	Sqm	1	2.066	2.116		4.37
	S2 (Right Side of the Lift)	Sqm	2	2.648	2.978		15.77
	S2 (Right Side of the Lift)	Sqm	2	3.315	2.087		13.84
	S2 (Right Side of the Lift)	Sqm	2	2.959	2.592		15.34
	S2 (Right Side of the Lift)	Sqm	1	2.75	1.974		5.43
	S2 (Right Side of the Lift)	Sqm	1	1.975	1.975		3.90
	S3 (Right Side of the Lift)	Sqm	1	1.974	1.596		3.15
	S3 (Right Side of the Lift)	Sqm	1	2.625	1.596		4.19
	S3 (Right Side of the Lift)	Sqm	1	2.465	1.596		3.93
	S3 (Right Side of the Lift)	Sqm	1	2.5	1.596		3.99
	S3 (Right Side of the Lift)	Sqm	1	4.925	2.258		11.12
	S3 (Right Side of the Lift)	Sqm	1	4.925	2.258		11.12
	S3 (Right Side of the Lift)	Sqm	1	4.925	2.465		12.14
	S3 (Right Side of the Lift)	Sqm	1	4.925	2.5		12.31
	S3 (Right Side of the Lift)	Sqm	1	3.231	2.258		7.30
	S3 (Right Side of the Lift)	Sqm	1	3.231	2.258		7.30
	S3 (Right Side of the Lift)	Sqm	1	3.231	2.465		7.96

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	S3 (Right Side of the Lift)	Sqm	1	3.231	2.5		8.08
	S3 (Front Side of the Lift)	Sqm	1	2.09	3.932		8.22
	S1 (Front Side of the Lift)	Sqm	1	2.262	3.653		8.26
	S1 (Front Side of the Lift)	Sqm	1	4.403	3.916		17.24
	S1 (Left Side of the Lift)	Sqm	1	4.52952	0		0.00
	S1 (Left Side of the Lift)	Sqm	1	3.179	4.542		14.44
	S2 (Right Side of the Lift)	Sqm	1	2.12	3.173		6.73
	S2 (Right Side of the Lift)	Sqm	1	1.952	1.138		2.22
	S1 (Front Side of the Lift)	Sqm	1	4.357	2.094		9.12
	S1 (Front Side of the Lift)	Sqm	1	4.357	3.178		13.85
	S1 (Front Side of the Lift)	Sqm	1	4.357	3.073		13.39
	S1 (Front Side of the Lift)	Sqm	1	4.628	0		0.00
	S1 (Front Side of the Lift)	Sqm	1	4.621	3.581		16.55
	S1 (Front Side of the Lift)	Sqm	1	2.094	3.581		7.50
	S1 (Front Side of the Lift)	Sqm	1	3.178	3.581		11.38
	S1 (Front Side of the Lift)	Sqm	1	3.073	3.581		11.00
	S1 (Left Side of the External Staircase)	Sqm	1	4	2.814		11.26
	S1 (Left Side of the External Staircase)	Sqm	1	4	3.707		14.83
	S4 (Toilet Slab)	Sqm	2	3.067	1.77		10.86
	S4 (Toilet Slab)	Sqm	6	3.067	1.77		32.57
	S3 (Passage Slab)	Sqm	1	4.353	1.953		8.50
	S3 (Passage Slab)	Sqm	1	3.624	1.953		7.08
	S3 (Passage Slab)	Sqm	1	3.988	1.953		7.79
	S3 (Passage Slab)	Sqm	1	1.853	1.953		3.62
						Total	433.41
	Third Floor Slab						
	S5 (Balcony Slab)	Sqm	1	4.6	0.996		4.58
	S5 (Balcony Slab)	Sqm	1	4.704	0.721		3.39
	S5 (Balcony Slab)	Sqm	1	0.76	0.76		0.58
	S5 (Balcony Slab)	Sqm	1	2.879	0.803		2.31
	S5 (Balcony Slab)	Sqm	1	3.239	0.739		2.39
	S5 (Balcony Slab)	Sqm	1	4.93	0.678		3.34
	S5 (Balcony Slab)	Sqm	1	4.408	0.558		2.46
	S5 (Balcony Slab)	Sqm	1	4.68	0.558		2.61
	S5 (Balcony Slab)	Sqm	1	2.019	0.558		1.13
	S5 (Balcony Slab)	Sqm	1	6.815	0.9		6.13
	S5 (Balcony Slab)	Sqm	1	5.046	0.9		4.54
	S5 (Balcony Slab)	Sqm	1	4.915	0.9		4.42
	S5 (Balcony Slab)	Sqm	1	4.747	0.9		4.27
	S5 (Balcony Slab)	Sqm	1	4	0.9		3.60
	S5 (Balcony Slab)	Sqm	1	0.802	0.8		0.64
	S5 (Balcony Slab)	Sqm	1	2.879	0.765		2.20
	S5 (Balcony Slab)	Sqm	1	3.231	0.759		2.45
	S5 (Balcony Slab)	Sqm	1	4.926	0.759		3.74
	S5 (Balcony Slab)	Sqm	1	4.409	0.759		3.35
	S5 (Balcony Slab)	Sqm	1	1.121	0.759		0.85
	S5 (Balcony Slab)	Sqm	1	1.14	0.779		0.89
	S5 (Balcony Slab)	Sqm	1	4.42	0.768		3.39
	S5 (Balcony Slab)	Sqm	2	3.624	0.945		6.85
	S2 (Right Side of the Lift)	Sqm	1	2.066	2.116		4.37
	S2 (Right Side of the Lift)	Sqm	2	2.648	2.978		15.77
	S2 (Right Side of the Lift)	Sqm	2	3.315	2.087		13.84
	S2 (Right Side of the Lift)	Sqm	2	2.959	2.592		15.34
	S2 (Right Side of the Lift)	Sqm	1	2.75	1.974		5.43
	S2 (Right Side of the Lift)	Sqm	1	1.975	1.975		3.90
	S3 (Right Side of the Lift)	Sqm	1	1.974	1.596		3.15
	S3 (Right Side of the Lift)	Sqm	1	2.625	1.596		4.19
	S3 (Right Side of the Lift)	Sqm	1	2.465	1.596		3.93
	S3 (Right Side of the Lift)	Sqm	1	2.5	1.596		3.99
	S3 (Right Side of the Lift)	Sqm	1	4.925	2.258		11.12
	S3 (Right Side of the Lift)	Sqm	1	4.925	2.258		11.12
	S3 (Right Side of the Lift)	Sqm	1	4.925	2.465		12.14
	S3 (Right Side of the Lift)	Sqm	1	4.925	2.5		12.31
	S3 (Right Side of the Lift)	Sqm	1	3.231	2.258		7.30
	S3 (Right Side of the Lift)	Sqm	1	3.231	2.258		7.30
	S3 (Right Side of the Lift)	Sqm	1	3.231	2.465		7.96
	S3 (Right Side of the Lift)	Sqm	1	3.231	2.5		8.08
	S3 (Front Side of the Lift)	Sqm	1	2.09	3.932		8.22
	S1 (Front Side of the Lift)	Sqm	1	2.262	3.653		8.26
	S1 (Front Side of the Lift)	Sqm	1	4.403	3.916		17.24
	S1 (Left Side of the Lift)	Sqm	1	4.52952	0		0.00
	S1 (Left Side of the Lift)	Sqm	1	3.179	4.542		14.44
	S2 (Right Side of the Lift)	Sqm	1	2.12	3.173		6.73
	S2 (Right Side of the Lift)	Sqm	1	1.952	1.138		2.22

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	S1 (Front Side of the Lift)	Sqm	1	4.357	2.094		9.12
	S1 (Front Side of the Lift)	Sqm	1	4.357	3.178		13.85
	S1 (Front Side of the Lift)	Sqm	1	4.357	3.073		13.39
	S1 (Front Side of the Lift)	Sqm	1	4.628079	0		0.00
	S1 (Front Side of the Lift)	Sqm	1	4.621	3.581		16.55
	S1 (Front Side of the Lift)	Sqm	1	2.094	3.581		7.50
	S1 (Front Side of the Lift)	Sqm	1	3.178	3.581		11.38
	S1 (Front Side of the Lift)	Sqm	1	3.073	3.581		11.00
	S1 (Left Side of the External Staircase)	Sqm	1	4	2.814		11.26
	S1 (Left Side of the External Staircase)	Sqm	1	4	3.707		14.83
	S4 (Toilet Slab)	Sqm	2	3.067	1.77		10.86
	S4 (Toilet Slab)	Sqm	6	3.067	1.77		32.57
	S3 (Passage Slab)	Sqm	1	4.353	1.953		8.50
	S3 (Passage Slab)	Sqm	1	3.624	1.953		7.08
	S3 (Passage Slab)	Sqm	1	3.988	1.953		7.79
	S3 (Passage Slab)	Sqm	1	1.853	1.953		3.62
						Total	457.77
	Terrace Floor Slab						
	S2	Sqm	1	2.059	2.029		4.18
	S2	Sqm	1	0.614	1.014		0.62
	S2	Sqm	1	2.995	2.495		7.47
	S2	Sqm	1	2.087	2.959		6.18
	S2	Sqm	1	2.593	2.959		7.67
	S3	Sqm	1	3.393	1.973		6.69
	S3	Sqm	1	3.393	2.495		8.47
	S3	Sqm	1	3.393	2.475		8.40
	S3	Sqm	1	3.393	2.465		8.36
	S3	Sqm	1	4.925	1.976		9.73
	S3	Sqm	1	4.925	2.625		12.93
	S3	Sqm	1	4.925	2.465		12.14
	S3	Sqm	1	4.925	2.473		12.18
	S3	Sqm	1	1.974	1.749		3.45
	S3	Sqm	1	2.497	1.749		4.37
	S3	Sqm	1	1.892	1.749		3.31
	S3	Sqm	1	2.478	1.749		4.33
	S3	Sqm	1	1.974	2.75		5.43
	S3	Sqm	1	2.497	2.75		6.87
	S3	Sqm	1	1.892	2.75		5.20
	S3	Sqm	1	2.478	2.75		6.81
	S2	Sqm	1	1.975	1.27		2.51
	S3	Sqm	1	3.933	2.12		8.34
	S2	Sqm	1	3.173	2.12		6.73
	S1	Sqm	1	3.651	2.295		8.38
	S1	Sqm	1	4.403	3.916		17.24
	S1	Sqm	1	4.542	3.212		14.59
	S1	Sqm	1	4.760	3.212		15.29
	S1	Sqm	1	4.600	2.98		13.71
	S1	Sqm	1	4.357	2.095		9.13
	S2	Sqm	1	4.357	3.179		13.85
	S1	Sqm	1	3.003	2.993		8.99
	S1	Sqm	1	3.003	1.149		3.45
	S1	Sqm	1	4.661	3.581		16.69
	S1	Sqm	1	2.093	3.581		7.50
	S1	Sqm	1	3.208	3.581		11.49
	S1	Sqm	1	2.968	3.581		10.63
	S1	Sqm	1	4.003	3.918		15.68
	S1	Sqm	1	4.781	4.003		19.14
	S4	Sqm	1	2.021	1.778		3.59
	S4	Sqm	1	1.922	1.778		3.42
	S4	Sqm	1	1.967	1.202		2.36
	S4	Sqm	1	1.958	1.202		2.35
						Total	359.85
16	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 specificaiton. Specification No. KBS 4.6.2						
	Staire Case-Ground Floor to First Floor						
	Flight Waist Slab-1 Bottom	Sqm	1	3.759		1.5	5.64
	Waist Slab Sides	Sqm	2	3.759		0.3	2.26
	Flight Waist Slab-2 Bottom	Sqm	1	3.759		1.5	5.64
	Waist Slab Sides	Sqm	2	3.759		0.3	2.26

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	Landing	Sqm	1	3		1.5	4.50
	Landings Long Sides	Sqm	1	3		0.15	0.45
	Landings Short Sides	Sqm	2	1.5		0.15	0.45
	Outside Staircase						
	Flight Waist Slab - Bottom	Sqm	1	9.124		1.5	13.69
	Waist Slab Sides	Sqm	1	9.124		0.3	2.74
	Landing	Sqm	4	1.5		1.5	9.00
	Landings Long Sides	Sqm	1	1.5		0.15	0.23
	Landings Short Sides	Sqm	1	1.5		0.15	0.23
						Total	47.06
	Staire Case- First Floor to Second Floor (1 Nos.)						
	Flight Waist Slab-1 Bottom	Sqm	1	3.759		1.5	5.64
	Waist Slab Sides	Sqm	2	3.759		0.3	2.26
	Flight Waist Slab-2 Bottom	Sqm	1	3.759		1.5	5.64
	Waist Slab Sides	Sqm	2	3.759		0.3	2.26
	Landing	Sqm	1	3		1.5	4.50
	Landings Long Sides	Sqm	1	3		0.15	0.45
	Landings Short Sides	Sqm	2	1.5		0.15	0.45
						Total	21.19
	Staire Case- Second Floor to Third Floor(1 Nos.)						
	Flight Waist Slab-1 Bottom	Sqm	1	3.759		1.5	5.64
	Waist Slab Sides	Sqm	2	3.759		0.3	2.26
	Flight Waist Slab-2 Bottom	Sqm	1	3.759		1.5	5.64
	Waist Slab Sides	Sqm	2	3.759		0.3	2.26
	Landing	Sqm	1	3		1.5	4.50
	Landings Long Sides	Sqm	1	3		0.15	0.45
	Landings Short Sides	Sqm	2	1.5		0.15	0.45
						Total	21.19
	Staire Case- Third Floor to Terrace Floor (1 Nos.)						
	Flight Waist Slab-1 Bottom	Sqm	1	3.759		1.5	5.64
	Waist Slab Sides	Sqm	2	3.759		0.3	2.26
	Flight Waist Slab-2 Bottom	Sqm	1	3.759		1.5	5.64
	Waist Slab Sides	Sqm	2	3.759		0.3	2.26
	Landing	Sqm	1	3.00		1.5	4.50
	Landings Long Sides	Sqm	1	3.00		0.15	0.45
	Landings Short Sides	Sqm	2	1.50		0.15	0.45
						Total	21.19
17	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						
	Foundation to Plinth Floor						
	Lift Wall						
	Long Wall	Sqm	2	5.88		2.2	25.87
	Short Wall	Sqm	2	5.42		2.2	23.85
	Plinth Floor to First Floor						
	Lift Wall						
	Long Wall	Sqm	1	5.88		4.00	23.52
	Short Wall	Sqm	1	5.42		4.00	21.68
						Total	94.92
	First Floor						
	First to Second Floor						
	Lift Wall						
	Long Wall	Sqm	1	5.88		4.00	23.52
	Short Wall	Sqm	1	5.42		4.00	21.68
						Total	45.20
	Second Floor						
	Second to Third Floor						
	Lift Wall						
	Long Wall	Sqm	1	5.88		4.00	23.52
	Short Wall	Sqm	1	5.42		4.00	21.68
						Total	45.20
	Third Floor						
	Third to Terrace Floor						
	Lift Wall						
	Long Wall	Sqm	1	5.88		4	23.52

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	Short Wall	Sqm	1	5.42		4	21.68
						Total	45.20
18	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 l 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)		Concrete in Cum	Kg/Cum	Kg		MT
	Foundation and Ground Floor						
	Foundation	MT	41.55	100	4155.09		4.16
	Column up to Plinth	MT	10.24	120	1228.26		1.23
	Plinth Beam	MT	325.59	100	32558.96		32.56
	Lintel	MT	4.60	80	368.00		0.37
	Column up to First Floor Slab	MT	18.61	120	2233.20		2.23
	Staire Case	MT	7.42	100	742.32		0.74
	Lift Wall	MT	5.25	100	525.23		0.53
						Total	41.81
	First Floor						
	First Floor Beam	MT	53.12	100	5311.69		5.31
	Lintel	MT	6.21	80	496.80		0.50
	First Floor Slab	MT	64.15	100	6415.48		6.42
	First Floor Column	MT	18.61	120	2233.20		2.23
	Staire Case	MT	3.11	100	310.90		0.31
	Lift Wall	MT	5.25	100	525.23		0.53
						Total	15.29
	Second Floor						
	Second Floor Beam	MT	59.79	100	5978.69		5.98
	Lintel	MT	6.67	80	533.60		0.53
	Second Floor Slab	MT	64.15	100	6415.48		6.42
	Second Floor Column	MT	18.61	120	2233.20		2.23
	Staire Case	MT	3.11	100	310.90		0.31
	Lift Wall	MT	5.25	100	525.23		0.53
						Total	16.00
	Third Floor						
	Third Floor Beam	MT	53.12	100	5311.69		5.31
	Lintel	MT	6.67	80	533.60		0.53
	Third Floor Slab	MT	67.20	100	6720.03		6.72
	Third Floor Column	MT	18.61	120	2233.20		2.23
	Staire Case	MT	3.11	100	310.90		0.31
	Lift Wall	MT	5.25	100	525.23		0.53
						Total	15.63
19	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						
	Total Reinforcement Qty.	MT					88.74
20	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						
	Provisional Qty.	Sqm	1				100.00
						Total	100.00

Sr. No.	Description	Unit	No's	L	B	H	Qty.
21	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 Basement in CM 1:6 (Cement 45 kgs/M3)-						
	Below Plinth Beam						
1	PB1	Cum	1	1.66	0.33	0.60	0.33
2	PB1	Cum	1	1.08	0.33	0.60	0.21
3	PB2	Cum	1	2.05	0.33	0.60	0.41
4	PB4	Cum	1	2.88	0.33	0.60	0.57
5	PB6	Cum	1	2.12	0.33	0.60	0.42
6	PB3	Cum	1	4.53	0.33	0.60	0.90
7	PB3	Cum	1	4.93	0.33	0.60	0.98
8	PB3	Cum	1	3.24	0.33	0.60	0.64
9	PB2	Cum	1	2.55	0.33	0.60	0.50
10	PB6	Cum	1	3.34	0.33	0.60	0.66
11	PB4	Cum	1	0.91	0.33	0.60	0.18
12	PB4	Cum	1	5.06	0.33	0.60	1.00
13	PB4	Cum	1	3.32	0.33	0.60	0.66
14	PB4	Cum	1	2.96	0.33	0.60	0.59
15	PB26	Cum	1	1.38	0.33	0.60	0.27
16	PB26	Cum	1	3.73	0.33	0.60	0.74
17	PB6	Cum	1	1.83	0.33	0.60	0.36
18	PB8	Cum	1	2.96	0.33	0.60	0.59
19	PB29	Cum	1	4.26	0.33	0.60	0.84
20	PB29	Cum	1	4.33	0.33	0.60	0.86
21	PB27	Cum	3	8.79	0.33	0.60	5.22
22	PB12	Cum	1	2.81	0.33	0.60	0.56
23	PB12	Cum	1	3.23	0.33	0.60	0.64
24	PB12	Cum	1	4.93	0.33	0.60	0.98
25	PB11	Cum	1	4.28	0.33	0.60	0.85
26	PB28	Cum	3	1.14	0.33	0.60	0.68
27	PB26	Cum	1	3.74	0.33	0.60	0.74
28	PB7	Cum	2	1.82	0.33	0.60	0.72
29	PB7	Cum	2	3.01	0.33	0.60	1.19
30	PB8	Cum	1	5.06	0.33	0.60	1.00
31	PB8	Cum	1	4.53	0.33	0.60	0.90
32	PB26	Cum	1	5.34	0.33	0.60	1.06
33	PB25	Cum	1	3.96	0.33	0.60	0.78
34	PB25	Cum	1	4.53	0.33	0.60	0.90
35	PB11	Cum	1	4.40	0.33	0.60	0.87
36	PB18	Cum	1	4.93	0.33	0.60	0.98
37	PB19	Cum	1	3.68	0.33	0.60	0.73
38	PB9	Cum	1	3.19	0.33	0.60	0.63
39	PB10	Cum	1	3.00	0.33	0.60	0.59
40	PB14	Cum	1	8.28	0.33	0.60	1.64
41	PB23	Cum	2	4.10	0.33	0.60	1.62
42	PB18	Cum	1	2.73	0.33	0.60	0.54
43	PB18	Cum	1	4.83	0.33	0.60	0.96
44	PB18	Cum	1	4.73	0.33	0.60	0.94
45	PB18	Cum	1	5.06	0.33	0.60	1.00
46	PB24	Cum	1	4.24	0.33	0.60	0.84
47	PB25	Cum	1	5.73	0.33	0.60	1.13
48	PB15	Cum	1	4.47	0.33	0.60	0.89
49	PB24	Cum	1	3.45	0.33	0.60	0.68
50	PB24	Cum	1	3.88	0.33	0.60	0.77
51	PB24	Cum	1	1.72	0.33	0.60	0.34
52	PB25	Cum	1	3.45	0.33	0.60	0.68
53	PB25	Cum	1	3.88	0.33	0.60	0.77
54	PB25	Cum	1	1.72	0.33	0.60	0.34
55	PB16	Cum	1	6.20	0.33	0.60	1.23
56	PB16	Cum	1	6.34	0.33	0.60	1.26
57	PB16	Cum	1	3.23	0.33	0.60	0.64
58	PB17	Cum	2	3.92	0.33	0.60	1.55
59	PB17	Cum	2	3.92	0.33	0.60	1.55
60	PB17	Cum	2	4.00	0.33	0.60	1.58
61	PB4	Cum	1	4.02	0.33	0.60	0.80
62	PB18	Cum	1	1.84	0.33	0.60	0.36
63	PB20	Cum	3	1.82	0.33	0.60	1.08

Sr. No.	Description	Unit	No's	L	B	H	Qty.
64	CB14	Cum	1	2.17	0.33	0.60	0.43
	Ramp side	Cum	1.00	6.00	0.35	0.60	1.26
	Passage	Cum	1.00	16.00	0.35	0.60	3.36
	Total	Cum					59.96
22	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 super structure in CM 1:6 (Cement 45 kgs/M3) (KPWD 2018-19,42.5.3)						
	For super structure in CM 1:6 (Cement 45 kgs/M3)- Ground Floor (KPWD 2018-19,42.5.3)						
	230 mm Thk. Wall						
	Multipurpose Hall						
	Pathway Side Wall	Cum	1.00	21.78	0.23	3.40	17.03
		Cum	1.00	3.92	0.23	3.40	3.06
		Cum	1.00	0.87	0.23	3.40	0.68
	External Staircase side wall	Cum	1.00	13.12	0.23	3.40	10.26
	Internal Wall	Cum	1.00	18.00	0.23	3.40	14.08
	Entrance Door Wall	Cum	1.00	3.00	0.23	3.40	2.35
	Deductions						
	D1	Cum	-3.00	2.00	0.23	2.10	-2.90
	W1	Cum	-4.00	1.50	0.23	1.50	-2.07
	W2	Cum	-1.00	1.00	0.23	0.90	-0.21
	Toilet & Back office						
	Long Wall	Cum	3.00	13.50	0.23	3.40	31.67
	Short Wall	Cum	4.00	6.00	0.23	3.40	18.77
	Deduction						
	D3	Cum	-2.00	1.00	0.23	2.10	-0.97
	D7	Cum	-1.00	0.75	0.23	2.10	-0.36
	W1	Cum	-2.00	1.50	0.23	1.50	-1.04
	V	Cum	-7.00	0.60	0.23	0.60	-0.58
	Staircase side wall	Cum	1.00	5.05	0.23	3.40	3.95
		Cum	1.00	3.50	0.23	3.40	2.74
	Duct at Elevation B						
		Cum	1.00	1.03	0.23	3.40	0.80
		Cum	1.00	1.45	0.23	3.40	1.13
	Entrance Duct Wall	Cum	1.00	1.02	0.23	3.40	0.80
	Main Entrance wall	Cum	1.00	5.00	0.23	3.40	3.91
	Deduction - Main door	Cum	-1.00	2.00	0.23	2.10	-0.97
	Ramp side	Cum	1.00	6.00	0.23	0.40	0.55
	Passage	Cum	1.00	16.00	0.23	0.75	2.76
						Total	105.45
	For super structure in CM 1:6 (Cement 45 kgs/M3)- First Floor (KPWD 2018-19,42.5.3)						
	230 mm Thk. Wall						
	External Wall (Elevation-A)	Cum	1.00	13.56	0.23	3.40	10.60
	External Wall (Elevation-A)	Cum	1.00	16.76	0.23	3.40	13.11
	External Wall (Elevation-C)	Cum	1.00	3.83	0.23	3.40	3.00
	External Wall (Elevation-C)	Cum	1.00	22.41	0.23	3.40	17.52
	External Wall (Elevation-B)	Cum	1.00	19.81	0.23	3.40	15.49
	External Wall (Elevation-D)	Cum	1.00	10.50	0.23	3.40	8.21
	External Wall (Elevation-D)	Cum	1.00	18.00	0.23	3.40	14.08
	Intermediate wall	Cum	1.00	12.50	0.23	3.40	9.78
	Toilet Outer Wall	Cum	1.00	13.00	0.23	3.40	10.17
		Cum	1.00	6.50	0.23	3.40	5.08
	Deductions						
	W1	Cum	-24.00	1.50	0.23	1.50	-12.42
	W2	Cum	-1.00	1.00	0.23	0.90	-0.21
	D6	Cum	-4.00	1.00	0.23	2.10	-1.93
	D7	Cum	-1.00	0.75	0.23	2.10	-0.36
	Main Door	Cum	-1.00	2.00	0.23	2.10	-0.97
	D3A	Cum	-1.00	1.00	0.23	2.10	-0.48
	D3	Cum	-1.00	1.00	0.23	2.10	-0.48
	Ventilator	Cum	-6.00	0.60	0.23	0.60	-0.50
	Staircase side	Cum	1.00	5.05	0.23	3.40	3.95
		Cum	1.00	3.50	0.23	3.40	2.74

Sr. No.	Description	Unit	No's	L	B	H	Qty.
						Total	96.37
	For super structure in CM 1:6 (Cement 45 kgs/M3)- Second Floor (KPWD 2018-19,42.5.3)						
	External Wall (Elevation-A)	Cum	1.00	13.56	0.23	3.40	10.60
	External Wall (Elevation-A)	Cum	1.00	16.76	0.23	3.40	13.11
	External Wall (Elevation-C)	Cum	1.00	3.83	0.23	3.40	3.00
	External Wall (Elevation-C)	Cum	1.00	22.41	0.23	3.40	17.52
	External Wall (Elevation-B)	Cum	1.00	19.81	0.23	3.40	15.49
	External Wall (Elevation-D)	Cum	1.00	10.50	0.23	3.40	8.21
	External Wall (Elevation-D)	Cum	1.00	18.00	0.23	3.40	14.08
	Intermediate wall	Cum	1.00	12.50	0.23	3.40	9.78
	Toilet Outer Wall	Cum	1.00	13.00	0.23	3.40	10.17
		Cum	1.00	6.50	0.23	3.40	5.08
	Deductions						
	W1	Cum	-24.00	1.50	0.23	1.50	-12.42
	W2	Cum	-1.00	1.00	0.23	0.90	-0.21
	D6	Cum	-4.00	1.00	0.23	2.10	-1.93
	D7	Cum	-1.00	0.75	0.23	2.10	-0.36
	Main Door	Cum	-1.00	2.00	0.23	2.10	-0.97
	D3A	Cum	-1.00	1.00	0.23	2.10	-0.48
	D3	Cum	-1.00	1.00	0.23	2.10	-0.48
	Ventilator	Cum	-6.00	0.60	0.23	0.60	-0.50
	Staircase side	Cum	1.00	5.05	0.23	3.40	3.95
		Cum	1.00	3.50	0.23	3.40	2.74
						Total	96.37
	For super structure in CM 1:6 (Cement 45 kgs/M3)- Third Floor (KPWD 2018-19,42.5.3)						
	External Wall (Elevation-A)	Cum	1.00	13.56	0.23	3.40	10.60
	External Wall (Elevation-A)	Cum	1.00	16.76	0.23	3.40	13.11
	External Wall (Elevation-C)	Cum	1.00	3.83	0.23	3.40	3.00
	External Wall (Elevation-C)	Cum	1.00	22.41	0.23	3.40	17.52
	External Wall (Elevation-B)	Cum	1.00	19.81	0.23	3.40	15.49
	External Wall (Elevation-D)	Cum	1.00	10.50	0.23	3.40	8.21
	External Wall (Elevation-D)	Cum	1.00	18.00	0.23	3.40	14.08
	Intermediate wall	Cum	1.00	12.50	0.23	3.40	9.78
	Toilet Outer Wall	Cum	1.00	13.00	0.23	3.40	10.17
		Cum	1.00	6.50	0.23	3.40	5.08
	Deductions						
	W1	Cum	-24.00	1.50	0.23	1.50	-12.42
	W2	Cum	-1.00	1.00	0.23	0.90	-0.21
	D6	Cum	-3.00	1.00	0.23	2.10	-1.45
	D7	Cum	-1.00	0.75	0.23	2.10	-0.36
	Main Door	Cum	-1.00	2.00	0.23	2.10	-0.97
	D3A	Cum	-1.00	1.00	0.23	2.10	-0.48
	D3	Cum	-1.00	1.00	0.23	2.10	-0.48
	Ventilator	Cum	-6.00	0.60	0.23	0.60	-0.50
	Staircase side	Cum	1.00	5.05	0.23	3.40	3.95
		Cum	1.00	3.50	0.23	3.40	2.74
	Store Room						
	Horizontal Wall	Cum	2	3.40	0.23	3.40	5.32
	Vertical Wall	Cum	2	3.00	0.23	3.40	4.69
	Deductions						
	D3A	Cum	-1	1.00	0.23	2.10	-0.48
	W1	Cum	-1	1.50	0.23	1.50	-0.52
						Total	105.86
	Terrace Floor						
	Parapet Wall	Cum	1.00	100.05	0.23	0.90	20.71
						Total	20.71
23	KSRB 5-15: Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part 1)2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 (KPWD 18-19,SI.No.5.28,Pg.No.27)						

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	Ground Floor						
	Multipurpose Hall						
	Duct-Long Wall	Sqm	1	6.50		3.40	22.1
	Duct-Short Wall	Sqm	2	0.75		3.40	5.13
	Gents And Ladies Toilet						
	Partition Wall-1	Sqm	4	1.31		3.40	17.87
	Partition Wall-2	Sqm	2	1.08		3.40	7.31
	Back Office Toilet Wall	Sqm	1	2.10		3.40	7.14
	Toilet Partition	Sqm	1	4.00		3.40	13.6
	Toilet Entry	Sqm	6	0.90		3.40	18.36
	Toilet Entry	Sqm	2	1.05		3.40	7.14
	Duct Near Lift	Sqm	1	2.92		3.40	9.93
	Deductions						
	D4	Sqm	-6	0.75		2.10	-9.45
	D3	Sqm	-2	1.00		2.10	-4.2
	Duct Opening	Sqm	-1	0.90		1.00	-0.9
						Total	94.03
	First Floor						
	Toilet Wall						
	Vertical Wall	Sqm	2	4.50		3.40	30.60
	Vertical Wall	Sqm	4	1.25		3.40	17.00
	Vertical Wall	Sqm	1	2.50		3.40	8.50
	Vertical Wall	Sqm	2	0.70		3.40	4.76
	Horizontal Wall	Sqm	1	1.25		3.40	4.25
	Horizontal Wall	Sqm	1	6.50		3.40	22.10
	Duct Near Lift	Sqm	1	2.92		3.40	9.93
	Toilet Wall	Sqm	1	1.15		3.40	3.91
	Deductions						
	D4	Sqm	-9	0.75		2.10	-14.18
	Duct Opening	Sqm	-1	0.9		1.00	-0.90
						Total	85.97
	Second Floor						
	Toilet Wall						
	Vertical Wall	Sqm	2	4.50		3.40	30.6
	Vertical Wall	Sqm	4	1.25		3.40	17
	Vertical Wall	Sqm	1	2.50		3.40	8.5
	Vertical Wall	Sqm	2	0.70		3.40	4.76
	Horizontal Wall	Sqm	1	1.25		3.40	4.25
	Horizontal Wall	Sqm	1	6.50		3.40	22.1
	Duct Near Lift	Sqm	1	2.92		3.40	9.93
	Toilet Wall	Sqm	1	1.15		3.40	3.91
	Deductions						
	D4	Sqm	-9	0.75		2.10	-14.18
	Duct Opening	Sqm	-1	0.90		1.00	-0.9
						Total	85.97
	Third Floor						
	Toilet Wall						
	Vertical Wall	Sqm	2	4.50		3.40	30.60
	Vertical Wall	Sqm	4	1.25		3.40	17.00
	Vertical Wall	Sqm	1	2.50		3.40	8.50
	Vertical Wall	Sqm	2	0.70		3.40	4.76
	Horizontal Wall	Sqm	1	1.25		3.40	4.25
	Horizontal Wall	Sqm	1	6.50		3.40	22.10
	Duct Near Lift	Sqm	1	2.92		3.40	9.93
	Toilet Wall	Sqm	1	1.15		3.40	3.91
	Deductions						
	D4	Sqm	-9	0.75		2.10	-14.18
	Duct Opening	Sqm	-1	0.90		1.00	-0.90
						Total	85.97

Sr. No.	Description	Unit	No's	L	B	H	Qty.
24	KSRB 5-14.1 : Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1) 2005 and constructed with CM 1 A, as per IS 25722005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 do- -with solid concrete blocks of size 400x200x200mm						
	For super structure in CM 1:6 (Cement 45 kgs/M3)- Ground Floor (KPWD 2018-19,42.5.3)						
	Provisional Qty	Sqm	1.00	100.00			100.00
						Total	100.00
25	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,Sl.No.15.13,Pg.No.115)						
i)	Ground Floor						
	Multipurpose Hall						
	Pathway Side Wall	Cum	1.00	21.78		3.40	74.06
		Cum	1.00	3.92		3.40	13.32
		Cum	1.00	0.87		3.40	2.94
	External Staircase side wall	Cum	2.00	13.12		3.40	89.21
	Internal Wall	Cum	2.00	18.00		3.40	122.40
	Entrance Door Wall	Cum	2.00	3.00		3.40	20.40
	Deductions						
	D1	Cum	-3.00	2.00		2.10	-12.60
	W1	Cum	-4.00	1.50		1.50	-9.00
	W2	Cum	-1.00	1.00		0.90	-0.90
	Toilet & Back office						
	Long Wall	Cum	4.00	13.50		3.40	183.60
	Short Wall	Cum	5.00	6.00		3.40	102.00
	Deduction						
	D3	Cum	-4.00	1.00		2.10	-8.40
	D7	Cum	-1.00	0.75		2.10	-1.58
	W1	Cum	-1.00	1.50		1.50	-2.25
	V	Cum	-6.00	0.60		0.60	-2.16
	Staircase side wall	Cum	2.00	5.05		3.40	34.34
		Cum	2.00	3.50		3.40	23.80
	Duct at Elevation B						
		Cum	1.00	1.03		3.40	3.49
		Cum	1.00	1.45		3.40	4.93
	Entrance Duct Wall	Cum	1.00	1.02		3.40	3.46
	Main Entrance wall	Cum	2.00	5.00		3.40	34.00
	Deduction - Main door	Cum	-1.00	2.00		2.10	-4.20
	Ramp Side	Cum	1.00	6.00		0.40	2.40
	Passage	Cum	1.00	16.00		0.75	12.00
	Multipurpose Hall						
	Duct-Long Wall	Sqm	2.00	6.50		3.40	44.2
	Duct-Short Wall	Sqm	4.00	0.75		3.40	10.25
	Gents And Ladies Toilet						
	Back Office Toilet Wall	Sqm	1	2.10		3.40	7.14
	Toilet Entry	Sqm	2	1.05		3.40	7.14
	Duct Near Lift	Sqm	2	2.92		3.40	19.86
	Deductions						
	D3	Sqm	-1	1.00		2.10	-2.1
	Duct Opening	Sqm	-1	0.90		1.00	-0.9
						Total	770.86
	For super structure in CM 1:6 (Cement 45 kgs/M3)- First Floor (KPWD 2018-19,42.5.3)						
	230 mm Thk. Wall						
	External Wall (Elevation-A)	Cum	1.00	13.56		3.40	46.09
	External Wall (Elevation-A)	Cum	1.00	16.76		3.40	56.98
	External Wall (Elevation-C)	Cum	1.00	3.83		3.40	13.03

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	External Wall (Elevation-C)	Cum	1.00	22.41		3.40	76.19
	External Wall (Elevation-B)	Cum	1.00	19.81		3.40	67.36
	External Wall (Elevation-D)	Cum	1.00	10.50		3.40	35.70
	External Wall (Elevation-D)	Cum	1.00	18.00		3.40	61.20
	Intermediate wall	Cum	2.00	12.50		3.40	85.00
	Toilet Outer Wall	Cum	2.00	13.00		3.40	88.40
		Cum	1.00	6.50		3.40	22.10
	Deductions						
	W1	Cum	-12.00	1.50		1.50	-27.00
	W2	Cum	-0.50	1.00		0.90	-0.45
	D6	Cum	-2.00	1.00		2.10	-4.20
	D7	Cum	-0.50	0.75		2.10	-0.79
	Main Door	Cum	-1.00	2.00		2.10	-4.20
	D3A	Cum	-1.00	1.00		2.10	-2.10
	D3	Cum	-1.00	1.00		2.10	-2.10
	Ventilator	Cum	-6.00	0.60		0.60	-2.16
	Staircase side	Cum	2.00	5.05		3.40	34.34
		Cum	2.00	3.50		3.40	23.80
	First Floor						
	Toilet Wall						
	Vertical Wall	Sqm	2	4.50		3.40	30.60
	Vertical Wall	Sqm	2	0.70		3.40	4.76
	Horizontal Wall	Sqm	1	1.25		3.40	4.25
	Duct Near Lift	Sqm	2	2.92		3.40	19.86
	Toilet Wall	Sqm	1	1.15		3.40	3.91
	Deductions						
	Duct Opening	Sqm	-1	0.9		1.00	-0.90
						Total	629.67
	For super structure in CM 1:6 (Cement 45 kgs/M3)- Second Floor (KPWD 2018-19,42.5.3)						
	External Wall (Elevation-A)	Cum	1.00	13.56		3.40	46.09
	External Wall (Elevation-A)	Cum	1.00	16.76		3.40	56.98
	External Wall (Elevation-C)	Cum	1.00	3.83		3.40	13.03
	External Wall (Elevation-C)	Cum	1.00	22.41		3.40	76.19
	External Wall (Elevation-B)	Cum	1.00	19.81		3.40	67.36
	External Wall (Elevation-D)	Cum	1.00	10.50		3.40	35.70
	External Wall (Elevation-D)	Cum	1.00	18.00		3.40	61.20
	Intermediate wall	Cum	2.00	12.50		3.40	85.00
	Toilet Outer Wall	Cum	2.00	13.00		3.40	88.40
		Cum	1.00	6.50		3.40	22.10
	Deductions						
	W1	Cum	-12.00	1.50		1.50	-27.00
	W2	Cum	-0.50	1.00		0.90	-0.45
	D6	Cum	-2.00	1.00		2.10	-4.20
	D7	Cum	-0.50	0.75		2.10	-0.79
	Main Door	Cum	-1.00	2.00		2.10	-4.20
	D3A	Cum	-1.00	1.00		2.10	-2.10
	D3	Cum	-1.00	1.00		2.10	-2.10
	Ventilator	Cum	-6.00	0.60		0.60	-2.16
	Staircase side	Cum	2.00	5.05		3.40	34.34
		Cum	2.00	3.50		3.40	23.80
	Toilet Wall						
	Vertical Wall	Sqm	2.00	4.50		3.40	30.60
	Vertical Wall	Sqm	2.00	0.70		3.40	4.76
	Horizontal Wall	Sqm	1.00	1.25		3.40	4.25
	Duct Near Lift	Sqm	2.00	2.92		3.40	19.86
	Toilet Wall	Sqm	1.00	1.15		3.40	3.91
	Deductions						
	Duct Opening	Sqm	-1.00	0.90		1.00	-0.90
						Total	629.67
	For super structure in CM 1:6 (Cement 45 kgs/M3)- Third Floor (KPWD 2018-19,42.5.3)						
	External Wall (Elevation-A)	Cum	1.00	13.56		3.40	46.09
	External Wall (Elevation-A)	Cum	1.00	16.76		3.40	56.98
	External Wall (Elevation-C)	Cum	1.00	3.83		3.40	13.03
	External Wall (Elevation-C)	Cum	1.00	22.41		3.40	76.19
	External Wall (Elevation-B)	Cum	1.00	19.81		3.40	67.36
	External Wall (Elevation-D)	Cum	1.00	10.50		3.40	35.70
	External Wall (Elevation-D)	Cum	1.00	18.00		3.40	61.20
	Intermediate wall	Cum	2.00	12.50		3.40	85.00
	Toilet Outer Wall	Cum	2.00	13.00		3.40	88.40

Sr. No.	Description	Unit	No's	L	B	H	Qty.
		Cum	1.00	6.50		3.40	22.10
	Deductions						
	W1	Cum	-12.00	1.50		1.50	-27.00
	W2	Cum	-0.50	1.00		0.90	-0.45
	D6	Cum	-3.00	1.00		2.10	-6.30
	D7	Cum	-0.50	0.75		2.10	-0.79
	Main Door	Cum	-1.00	2.00		2.10	-4.20
	D3A	Cum	-1.00	1.00		2.10	-2.10
	D3	Cum	-1.00	1.00		2.10	-2.10
	Ventilator	Cum	-6.00	0.60		0.60	-2.16
	Staircase side	Cum	2.00	5.05		3.40	34.34
		Cum	2.00	3.50		3.40	23.80
	Store Room						
	Horizontal Wall	Cum	2	3.40		3.40	23.12
	Vertical Wall	Cum	2	3.00		3.40	20.40
	Deductions						
	D3A	Cum	-0.50	1.00		2.10	-1.05
	W1	Cum	-0.50	1.50		1.50	-1.13
	Toilet Wall						
	Vertical Wall	Sqm	2	4.50		3.40	30.60
	Vertical Wall	Sqm	2	0.70		3.40	4.76
	Horizontal Wall	Sqm	1	1.25		3.40	4.25
	Duct Near Lift	Sqm	2	2.92		3.40	19.86
	Toilet Wall	Sqm	1	1.15		3.40	3.91
	Deductions						
	Duct Opening	Sqm	-1	0.90		1.00	-0.90
						Total	668.91
26	KSRB15-5 : Providing rough cement plastering 15mm thick in single coat with cement mortar to brick masonry for base of dadoing 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,Sl.No.15.31,Pg.No.117)						
	Multipurpose Hall						
	Toilet & Back office						
	Long Wall	Cum	2.00	13.50	0.23	3.40	21.11
	Short Wall	Cum	2.00	6.00	0.23	3.40	9.38
	Deduction						
	D3	Cum	-2.00	1.00	0.23	2.10	-0.97
	V	Cum	-3.50	0.60	0.23	0.60	-0.29
	Gents And Ladies Toilet						
	Partition Wall-1	Sqm	8	1.31		3.40	35.74
	Partition Wall-2	Sqm	2	1.08		3.40	7.31
	Back Office Toilet Wall	Sqm	1	2.10		3.40	7.14
	Toilet Partition	Sqm	2	4.00		3.40	27.2
	Toilet Entry	Sqm	12	0.90		3.40	36.72
	Toilet Entry	Sqm	2	1.05		3.40	7.14
	Deductions						
	D4	Sqm	-6	0.75		2.10	-9.45
	D3	Sqm	-2	1.00		2.10	-4.2
						Total	136.84
	For super structure in CM 1:6 (Cement 45 kgs/M3)- First Floor (KPWD 2018-19,42.5.3)						
	230 mm Thk. Wall						
	Toilet Outer Wall	Cum	1.00	13.00		3.40	44.20
		Cum	1.00	6.50		3.40	22.10
	Deductions						
	D3A	Cum	-1.00	1.00		2.10	-2.10
	D3	Cum	-1.00	1.00		2.10	-2.10
	Ventilator	Cum	-3.00	0.60		0.60	-1.08
	First Floor						
	Toilet Wall						
	Vertical Wall	Sqm	2	4.50		3.40	30.60
	Vertical Wall	Sqm	8	1.25		3.40	34.00
	Vertical Wall	Sqm	2	2.50		3.40	17.00
	Vertical Wall	Sqm	2	0.70		3.40	4.76
	Horizontal Wall	Sqm	1	1.25		3.40	4.25
	Horizontal Wall	Sqm	1	6.50		3.40	22.10
	Toilet Wall	Sqm	1	1.15		3.40	3.91
	Deductions						

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	D4	Sqm	-8	0.75		2.10	-12.6
						Total	165.04
	For super structure in CM 1:6 (Cement 45 kgs/M3)- Second Floor (KPWD 2018-19,42.5.3)						
	Toilet Outer Wall	Sqm	1.00	13.00		3.40	44.20
		Sqm	1.00	6.50		3.40	22.10
	Deductions						
	D3A	Sqm	-1.00	1.00		2.10	-2.10
	D3	Sqm	-1.00	1.00		2.10	-2.10
	Ventilator	Sqm	-3.00	0.60		0.60	-1.08
	Second Floor						
	Toilet Wall						
	Vertical Wall	Sqm	2.00	4.50		3.40	30.60
	Vertical Wall	Sqm	8.00	1.25		3.40	34.00
	Vertical Wall	Sqm	2.00	2.50		3.40	17.00
	Vertical Wall	Sqm	2.00	0.70		3.40	4.76
	Horizontal Wall	Sqm	1.00	1.25		3.40	4.25
	Horizontal Wall	Sqm	1.00	6.50		3.40	22.10
	Toilet Wall	Sqm	1.00	1.15		3.40	3.91
	Deductions						
	D4	Sqm	-8.00	0.75		2.10	-12.60
						Total	165.04
	For super structure in CM 1:6 (Cement 45 kgs/M3)- Third Floor (KPWD 2018-19,42.5.3)						
	Toilet Outer Wall	Sqm	1.00	13.00		3.40	44.20
		Sqm	1.00	6.50		3.40	22.10
	Deductions						
	D3A	Sqm	-1.00	1.00		2.10	-2.10
	D3	Sqm	-1.00	1.00		2.10	-2.10
	Ventilator	Sqm	-3.00	0.60		0.60	-1.08
	Third Floor						
	Toilet Wall						
	Vertical Wall	Sqm	2.00	4.50		3.40	30.60
	Vertical Wall	Sqm	8.00	1.25		3.40	34.00
	Vertical Wall	Sqm	2.00	2.50		3.40	17.00
	Vertical Wall	Sqm	2.00	0.70		3.40	4.76
	Horizontal Wall	Sqm	1.00	1.25		3.40	4.25
	Horizontal Wall	Sqm	1.00	6.50		3.40	22.10
	Toilet Wall	Sqm	1.00	1.15		3.40	3.91
	Deductions						
	D4	Sqm	-8.00	0.75		2.10	-12.60
						Total	165.04
27	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. cement mortar 1:4 (KPWD 18-19,Sl.No.15.22,Pg No.116)						
	Ground Floor	Sqm	1	500.00			500.00
	First Floor	Sqm	1	530.00			530.00
	Second Floor	Sqm	1	490.00			490.00
	Third Floor	Sqm	1	500.00			500.00
	Terrace Floor	Sqm	1	50.00			50.00
28	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)						
	Ground Floor						
	Internal plastering Qty same as in Sl.No.25	Sqm	1	770.86			770.86
	Provisional Qty	Sqm	1				77.086
	Total Qty	Sqm					847.946
	First Floor						
	Internal plastering Qty same as in Sl.No.25	Sqm	1	629.67			629.67
	Provisional Qty	Sqm	1				62.967
	Total Qty	Sqm					692.637
	Second Floor						

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	Internal plastering Qty same as in SI.No.25	Sqm	1		629.67		629.67
	Provisional Qty	Sqm	1				62.967
	Total Qty	Sqm					692.637
	Third Floor	Sqm					
	Internal plastering Qty same as in SI.No.25	Sqm	1		668.91		668.91
	Provisional Qty	Sqm	1				66.891
	Total Qty	Sqm					735.801
29	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						
	Reception Lobby-1	Sqm	1	20.9	4.20		87.78
	Lobby-2	Sqm	1	6.6	3.65		24.09
	Back Office	Sqm	1	4.4	3.90		17.16
	Provisional Qty	Sqm	1				70.97
						Total	200.00
30	KSRB 15.10.3 Providing white washing to ceiling and l or sloping roof surface in two coats with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications.						
	Ground floor (Qty Same as SI No27)	Sqm	1		500.00		500.00
	First Floor (Qty Same as SI No27)	Sqm	1		530.00		530.00
	Second Floor (Qty Same as SI No27)	Sqm	1		490.00		490.00
	Third Floor (Qty Same as SI No27)	Sqm	1		550.00		550.00
						Total	2070.00
31	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,SI.No.15.16,Pg.No.116)						
	External Wall Surface						
	Ground Floor	Sqm	1.00	150.00		4.60	690.00
	Deduction						
	W1	Sqm	-7.00	1.50		1.50	-15.75
	D7	Sqm	-1.00	0.75		2.10	-1.58
		Sqm					672.68
	First Floor	Sqm	1.00	115.00		4.00	460.00
	Deduction						
	W1	Sqm	-23.00	1.50		1.50	-51.75
	W2	Sqm	-1.00	1.00		0.90	-0.90
	D6	Sqm	-6.00	1.00		2.10	-12.60
	D7	Sqm	-1.00	0.75		2.10	-1.58
		Sqm					393.18
	Second Floor	Sqm	1.00	110.00		4.00	440.00
	Deduction						
	W1	Sqm	-23.00	1.50		1.50	-51.75
	W2	Sqm	-1.00	1.00		0.90	-0.90
	D6	Sqm	-6.00	1.00		2.10	-12.60
	D7	Sqm	-1.00	0.75		2.10	-1.58
		Sqm					373.18
	Third Floor	Sqm	1.00	110.00		4.90	539.00
	Deduction						
	W1	Sqm	-23.00	1.50		1.50	-51.75
	W2	Sqm	-1.00	1.00		0.90	-0.90
	D6	Sqm	-6.00	1.00		2.10	-12.60
	D7	Sqm	-1.00	0.75		2.10	-1.58
		Sqm					472.18

Sr. No.	Description	Unit	No's	L	B	H	Qty.
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 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,Sl.No.14.45,Pg.No.109)						
	Flooring						
	Ground Floor	Sqm	1.00				550.00
	Deduct (Toilet Area +Duct +Lift+ Staircase)	Sqm	-1.00	71.00			-71.00
							479.00
	First Floor	Sqm	1.00				583
	Deduct (Toilet Area +Duct +Lift+ Staircase)	Sqm	-1.00	60.00			-60.00
							523.00
	Second Floor	Sqm	1.00				539.00
	Deduct (Toilet Area +Duct +Lift+ Staircase)	Sqm	-1.00	60.00			-60.00
							479.00
	Third Floor	Sqm	1.00				605.00
	Deduct (Toilet Area +Duct +Lift+ Staircase)	Sqm	-1.00	60.00			-60.00
							545.00
33	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. Specification No. KBS Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,Sl.No.14.36.2,Pg.No.108)						
	Ground Floor						
	Toilet Flooring	Sqm	1	25.00			25.00
		Sqm					25.00
	First Floor						
	Toilet Flooring	Sqm	1	23.00			23.00
		Sqm					23.00
	Second Floor						
	Toilet Flooring	Sqm	1	23.00			23.00
		Sqm					23.00
	Third Floor						
	Toilet Flooring	Sqm	1	23.00			23
							Total
							23
34	Providing and laying pattern flooring for staircase treads and risers using the combination of 20mm thick ruby red granite@ 66%,20 mm thick grey granite@ 20%, 20mm thick, 20mm thick black granite 14%. The granite materials are laid with a bed of CM 1:3, 20mm thick pointed with colour pigment, including full rounding for nosing, flaming the ruby red granite for 50 mm wide including cost of all materials, mortar, labour, curing etc., complete as per specification. (KPWD 18-19,Sl.No.14.46,Pg.No.109)						
	Ground Floor						
	Staircase: Ground to First Floor						
	Rise	Sqm	23	1.5	0.154		5.31
	Tread	Sqm	22	1.5	0.3		9.90
	Landings	Sqm	1	1.5	3		4.50
	Outside Staircase						
	Staircase: Ground to First Floor						
	Rise	Sqm	30	2	0.15		9.00
	Tread	Sqm	31	2	0.3		18.60
	Landings	Sqm	3	2	1		6.00
		Sqm					53.31
	First Floor						
	Staircase: First Floor to Second Floor						
	Rise	Sqm	23	1.5	0.154		5.31
	Tread	Sqm	22	1.5	0.3		9.90
	Landings	Sqm	1	1.5	3		4.50
		Sqm					19.71
	Second Floor						
	Staircase: Second Floor to Third Floor						
	Rise	Sqm	23	1.5	0.154		5.31

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	Tread	Sqm	22	1.5	0.3		9.90
	Landings	Sqm	1	1.5	3		4.50
		Sqm					19.71
	Third Floor						
	Staircase: Second Floor to Third Floor						
	Rise	Sqm	23	1.5	0.154		5.31
	Tread	Sqm	22	1.5	0.3		9.9
	Landings	Sqm	1	1.5	3		4.5
						Total	19.71
35	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						
	Gents Toilet						
	Long Wall	Sqm	2	3.75		2.10	15.75
	Short Wall	Sqm	2	3		2.10	12.6
	Partition Wall	Sqm	6	1.314		2.10	16.56
	Ladies Toilet						
	Long Wall	Sqm	2	3.75		2.10	15.75
	Short Wall	Sqm	2	3		2.10	12.6
	Partition Wall	Sqm	6	1.314		2.10	16.56
	Deduction of Opening	Sqm	-2	0.961		2.10	-4.04
	Back Office Toilet						
	Long Wall	Sqm	2	1.75		2.10	7.35
	Short Wall	Sqm	2	1.4		2.10	5.88
	Door Deduction	Sqm	-1	0.75		2.10	-1.58
						Total	97.43
	First Floor						
	Gents Toilet						
	Long Wall	Sqm	2	3.2		2.10	13.44
	Short Wall	Sqm	2	3		2.10	12.6
	Partition Wall	Sqm	4	1.252		2.10	10.52
	Ladies Toilet						
	Long Wall	Sqm	2	3.2		2.10	13.44
	Short Wall	Sqm	2	3		2.10	12.6
	Partition Wall	Sqm	4	1.252		2.10	10.52
	Deduction of Door	Sqm	-2	0.75		2.10	-3.15
	Toilet Near Lift						
	Long Wall	Sqm	2	2		2.10	8.4
	Short Wall	Sqm	2	1.1		2.10	4.62
	Door Deduction	Sqm	-1	0.75		2.10	-1.58
						Total	81.41
	Second Floor						
	Gents Toilet						
	Long Wall	Sqm	2	3.2		2.10	13.44
	Short Wall	Sqm	2	3		2.10	12.6
	Partition Wall	Sqm	4	1.252		2.10	10.52
	Ladies Toilet						
	Long Wall	Sqm	2	3.2		2.10	13.44
	Short Wall	Sqm	2	3		2.10	12.6
	Partition Wall	Sqm	4	1.252		2.10	10.52
	Deduction of Door	Sqm	-2	0.75		2.10	-3.15
	Toilet Near Lift						
	Long Wall	Sqm	2	2		2.10	8.4

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	Short Wall	Sqm	2	1.1		2.10	4.62
	Door Deduction	Sqm	-1	0.75		2.10	-1.58
						Total	81.41
	Third Floor						
	Gents Toilet						
	Long Wall	Sqm	2	3.2		2.10	13.44
	Short Wall	Sqm	2	3		2.10	12.6
	Partition Wall	Sqm	4	1.252		2.10	10.52
	Ladies Toilet						
	Long Wall	Sqm	2	3.2		2.10	13.44
	Short Wall	Sqm	2	3		2.10	12.6
	Partition Wall	Sqm	4	1.252		2.10	10.52
	Deduction of Door	Sqm	-2	0.75		2.10	-3.15
	Toilet Near Lift						
	Long Wall	Sqm	2	2		2.10	8.4
	Short Wall	Sqm	2	1.1		2.10	4.62
	Door Deduction	Sqm	-1	0.75		2.10	-1.58
						Total	81.41
36	KSRB 14.13-1: Providing precast chequered mosaic tiles dark shade using ordinary grey cement for steps and flooring, with precast 20mm thick, using marble chips of 7 to 10 nominal size laid in floors, steps and landings on a bed of 12mm thick cement mortar 1:3 mix, and jointed with neat cement slurry mixed with pigment to match the shade of tiles, curing, rubbing, polishing, oxalic acid wash, wax polish, including cost of materials, labour, complete as per specifications. (KPWD 18-19,Sl.No.14.28,Pg.No.107)						
	Ground Floor						
	Ramp At Elevation B	Sqm	1	6.00	2.00		12
						Total	12.00
37	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,Sl.No.14.52,Pg.No.110)						
	Ground Floor						
	Gents Toilet	Sqm	1	1.094	0.6		0.66
	Ladies Toilet	Sqm	1	1.075	0.6		0.65
		Sqm					1.30
	First Floor						
	Gents Toilet	Sqm	1	1.094	0.6		0.66
	Ladies Toilet	Sqm	1	1.075	0.6		0.65
		Sqm					1.30
	Second Floor						
	Gents Toilet	Sqm	1	1.094	0.6		0.66
	Ladies Toilet	Sqm	1	1.075	0.6		0.65
		Sqm					1.30
	Third Floor						
	Gents Toilet	Sqm	1	1.094	0.6		0.66
	Ladies Toilet	Sqm	1	1.075	0.6		0.65
		Sqm					1.30

Sr. No.	Description	Unit	No's	L	B	H	Qty.
38	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. Granite Stone of approved shade (CPWD 2019.8.10.2)						
	Urinal Partition	Sqm	8	0.6		1.2	5.76
39	KSRB 15-15.3 • Providing and applying painting in one coat with plastic emulsion paint of approved brand and manufacture 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-						
	Total Internal Paint Qty. (Same quantity as per wall putty quantity)	Sqm	1				2699.12
	Ceiling Plaster	Sqm	1				2070.00
						Total	4769.12
40	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon glazed primer with antifungal paint for top coat of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. (KPWD 18-19,Sl.No.15.104,Pg.No.127)						
	Ground Floor	Sqm	1				672.68
	First Floor	Sqm	1				393.18
	Second Floor	Sqm	1				373.18
	Thirs Floor	Sqm	1				472.18
41	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,Sl.No.15.103,Pg.No.127)						
	Provisional Qty	Sqm	1	500.00			500.00
42	KSRB 10-3 :Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc , consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm 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						
	Terrace Floor Area-1	Sqm	1	18.66	9.53		177.83
	Terrace Floor Area-2	Sqm	1	21.28	13.12		279.19
	Deduction						
	Staircase Area	Sqm	-1	4.72	3		-14.16
	Store Room	Sqm	-1	3	3		-9.00
		Sqm				Total	433.86

Sr. No.	Description	Unit	No's	L	B	H	Qty.
43	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, @ 0.50kgsqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification (KPWD 18-19,Sl.No.10.5.1,Pg.No.69)						
	Toilet Block						
	Gents Toilet and Ladies Toilet	Sqm	4	4.082	6.16		100.58
	Single Toilets	Sqm	4	1.1	2		8.80
		Sqm				Total	109.38
44	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,Sl.No.9.12,Pg.No.53)						
	D1	Cum	4	7.2	0.075	0.14	0.30
	D3	Cum	4	6.2	0.075	0.12	0.22
		Cum				Total	0.53
45	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 9-6.1 : do- - Mathi/Nandi Wood (KPWD 18-19,Sl.No.9.16,Pg.No.53)						
	Ground Floor						
	D1	Sqm	4	1.5		2.1	12.60
	D3	Sqm	4	1.00		2.1	8.40
		Sqm				Total	21.00
46	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,Sl.No.9.08,Pg.No.64)						
	Ground Floor						
	D4	Rmt	7	4.95			34.65
		Rmt				Total	34.65

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	First Floor						
	D4	Rmt	9	4.95			44.55
		Rmt				Total	44.55
	Second Floor						
	D4	Rmt	9	4.95			44.55
		Rmt				Total	44.55
	Third Floor						
	D4	Rmt	9	4.95			44.55
		Rmt				Total	44.55
47	SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm for styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail oneither side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet 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 75 mm Aluminium hinges. (KPWD 18-19,Sl.No.9.83,Pg.No.60)						
	Ground Floor						
	D4	Sqm	7	0.75		2.1	11.03
		Sqm				Total	11.03
	First Floor						
	D4	Sqm	9	0.75		2.1	14.18
		Sqm				Total	14.18
	Second Floor						
	D4	Sqm	9	0.75		2.1	14.18
		Sqm				Total	14.18
	Third Floor						
	D4	Sqm	9	0.75		2.1	14.18
		Sqm				Total	14.18
48	Specification for uPVC Openable window Providing& fixing of Openable Door 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 openable frame. The frame having overall size of 60mm x 55mm with GI reinforcement of 1mm thickness and openable sash with overall size of 6Dmm x 75mm and GI reinforcement of 1.5mm thickness. Glazing bead for fixing of glass shall be of size 2Dmm x 34 mm. Windows shall be provided with 5mm plain float glass, Standard hardware with friction hing & Multi point locking system with Handle. Wall thickness of frame & sash shall be of 2mm-2.5mm. (KPWD 18-19,Sl.No.38.44.8,Pg no.310)	Sqm	12	1.0		2.1	25.20
49.00	Providing & of Fixed Louvered Ventilator made out of multi chambered uPVC sections with TPv gaskets having isolated drainage and reinforced with Galvanized Iron profiles through out the window. The outer frame having a overall size of 60x55mm with reinforcement of 1 mm thickness and Mullion with overall size of 74x60mm with reinforcement of 1 mm thickness. Ventilator shall be provided with 4.5 mm Pin Head glass, standard hardware, Wall thickness of frame Mullion shall be 2-2.2 mm.						
	Ground Floor						
	Ventilators	Sqm	7	0.6		0.6	2.52

Sr. No.	Description	Unit	No's	L	B	H	Qty.
	First Floor						
	Ventilators	Sqm	7	0.6		0.6	2.52
	Second Floor						
	Ventilators	Sqm	7	0.6		0.6	2.52
	Third Floor						
	Ventilators	Sqm	7	0.6		0.6	2.52
						Total	10.08
50.00	Providing and fixing Double shutter glass door of 12mm thick plain toughened glass of approved make. 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, as per the specification.						
	D2	Sqm	3	1.5		2.1	9.45
						Total	9.45
51	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 l 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.						
	Ground Floor						
	Staircase Railing	Sqm	1	6.6		1.00	6.60
	Lobby Railing	Sqm	1	45		1.00	45.00
						Total	51.60
	First Floor						
	Staircase Railing	Sqm	1	6.6		1	6.60
	Balcony Railing	Sqm	1	51.3		1	51.26
						Total	57.86
	Second Floor						
	Staircase Railing	Sqm	1	6.6		1	6.60
	Balcony Railing	Sqm	1	51.26		1	51.26
						Total	57.86
	Third Floor						
	Staircase Railing	Sqm	1	6.6		1	6.60
	Balcony Railing	Sqm	1	83.00		1	83.00
						Total	89.60

Sr. No.	Description	Unit	No's	L	B	H	Qty.
52.00	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 tenoned 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							
	W1	Sqm	24	1.50	1.50		54.00
	W2	Sqm	1.0	1.00	0.90		0.90
						Total	54.90
First Floor							
	W2	Sqm	23	1.50	1.50		51.75
	W3	Sqm	1	1.00	0.90		0.90
						Total	52.65
Second Floor							
	W2	Sqm	23	1.50	1.50		51.75
	W3	Sqm	1	1.00	0.90		0.90
						Total	52.65
Third Floor							
	W2	Sqm	23	1.50	1.50		51.75
	W3	Sqm	1	1.00	0.90		0.90
						Total	52.65
53.00	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
54.00	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	400.00		0.05	20.00
						Total	20.00
55.00	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	835.35			835.35
	Total Backfilling Qty.	Cum	1	716.47			716.47
	Excavated material from plinth	Cum	1	465.55		0.3	139.66
		Cum				Disposal Qty.	258.54

Assistant Engineer
MSCL Mangaluru

Assistant Executive Engineer
MSCL Mangaluru

Executive Engineer
MSCL Mangaluru

General Manager Technical
MSCL Mangaluru

Rate Analysis For CCC-MCC Annex Building			
1	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.(RA attached)		
	Basic rate		68.16
	Add 10% For area weightage (Mangalore City)		6.82
		Rate	74.98 Sqm
2	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)		
	Basic rate		52
	Add 10% For area weightage (Mangalore City)		5.2
		Rate	57.20 Cum
3	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)		
	Basic rate		67
	Add 10% For area weightage (Mangalore City)		6.7
		Rate	73.70 Cum
4	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 deteriorous 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/machinery (KUWSDB 2019)		
	Basic rate		677
	Add 10% For area weightage (Mangalore City)		67.7
		Rate	744.70 Cum
5	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)		
	Basic rate		201
	Add 10% For area weightage (Mangalore City)		20.1
		Rate	221.10 Cum
6	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		
	Basic rate		259
	Add 10% For area weightage (Mangalore City)		25.9
		Rate	284.90 Cum

7	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)			
	Basic rate			2541
	Add 10% For area weightage (Mangalore City)			254.1
		Rate	2795.10	Cum
8	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)			
	Basic rate			5900
	Add 10% For area weightage (Mangalore City)			590
		Rate	6490.00	Cum
9	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 3.2.7 (KPWD 18-19,S.I. No.3.2)			
	Basic rate			105
	Add 10% For area weightage (Mangalore City)			10.5
		Rate	115.50	Sqm
10	KSRB 4.2.1 Providing and laying in position reinforced cement concrete of Design Mix M25 with OPC@ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregates @ 0.47cum, with super plasticisers@ 3 liters conforming to IS 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 ems thick, vibrated for all works in foundation for footings, pedestals, 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
		Rate	6817.80	Cum
11	KSRB 4.2.7 Providing and laying in position reinforced cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with super plasticisers @31ts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 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 Beam			
	Basic rate			6431
	Add 10% For area weightage (Mangalore City)			643.1
		Rate	7074.10	Cum

	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	
		Rate	7206.10	Cum
	Third 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	Cum
	Terrace Floor Beam			
	Basic rate		6431	
	Lift Charges (4 x Rs.60 /Cum)		240	
	Add 10% For area weightage (Mangalore City)		667.1	
		Rate	7338.10	Cum
12	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		263	
	Add 10% For area weightage (Mangalore City)		26.3	
		Rate	289.30	Sqm
13	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)			
	Ground Floor			
	Basic rate		292	
	Add 10% For area weightage (Mangalore City)		29.2	
		Rate	321.20	Sqm
	First Floor			
	Basic rate		292	
	Add 10% For area weightage (Mangalore City)		29.2	
		Rate	321.20	Sqm
	Second Floor			
	Basic rate		292	
	Add 10% For area weightage (Mangalore City)		29.2	
		Rate	321.20	Sqm
	Third Floor			
	Basic rate		292	
	Add 10% For area weightage (Mangalore City)		29.2	
		Rate	321.20	Sqm
	Third Floor			
	Basic rate		292	
	Add 10% For area weightage (Mangalore City)		29.2	

		Rate	321.20	Sqm
14	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			
	Foundation to First Floor Slab			
	Basic rate		456	
	Add 10% For area weightage (Mangalore City)		45.6	
		Rate	501.60	Sqm
	First Floor Slab to Second Floor Slab			
	Basic rate		456	
	Add 10% For area weightage (Mangalore City)		45.6	
		Rate	501.60	Sqm
	Second Floor Slab to Roof			
	Basic rate		456	
	Add 10% For area weightage (Mangalore City)		45.6	
		Rate	501.60	Sqm
	Second Floor Slab to Roof			
	Basic rate		456	
	Add 10% For area weightage (Mangalore City)		45.6	
		Rate	501.60	Sqm
15	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. do- - 0 to 5 mts			
	First Floor			
	Basic rate		408	
	Add 10% For area weightage (Mangalore City)		40.8	
		Rate	448.80	Sqm
	Second Floor			
	Basic rate		408	
	Add 10% For area weightage (Mangalore City)		40.8	
		Rate	448.80	Sqm
	Third Floor			
	Basic rate		408	
	Add 10% For area weightage (Mangalore City)		40.8	
		Rate	448.80	Sqm
	Terrace Floor			
	Basic rate		408	
	Add 10% For area weightage (Mangalore City)		40.8	
		Rate	448.80	Sqm
16	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 specificalton. Specification No. KBS 4.6.2			
	Ground Floor			
	Basic rate		561	
	Add 10% For area weightage (Mangalore City)		56.1	
		Rate	617.10	Sqm

	First Floor			
	Basic rate		561	
	Add 10% For area weightage (Mangalore City)		56.1	
		Rate	617.10	Sqm
	Second Floor			
	Basic rate		561	
	Add 10% For area weightage (Mangalore City)		56.1	
		Rate	617.10	Sqm
	Third Floor			
	Basic rate		561	
	Add 10% For area weightage (Mangalore City)		56.1	
		Rate	617.10	Sqm
17	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			
	Basic rate		361	
	Add 10% For area weightage (Mangalore City)		36.1	
		Rate	397.10	Sqm
	First Floor			
	Basic rate		361	
	Add 10% For area weightage (Mangalore City)		36.1	
		Rate	397.10	Sqm
	Second Floor			
	Basic rate		361	
	Add 10% For area weightage (Mangalore City)		36.1	
		Rate	397.10	Sqm
	Third Floor			
	Basic rate		361	
	Add 10% For area weightage (Mangalore City)		36.1	
		Rate	397.10	Sqm
18	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)		7078.2	
		Rate	77860.20	MT
	First Floor			
	Basic rate		70782	
	Lift Charges (1 x Rs.747.0)		747	
	Add 10% For area weightage (Mangalore City)		7152.9	
		Rate	78681.90	MT
	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
	Second 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
19	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			
	Ground Floor			
	Basic rate		10535	
	Add 10% For area weightage (Mangalore City)		1053.5	
		Rate	11588.50	MT
20	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			
	Basic rate		1056	
	Add 10% For area weightage (Mangalore City)		105.6	
		Rate	1161.60	Sqm
21	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 Basement in CM 1:6 (Cement 45 kgs/M3)-			
	Basic rate		3181	
	Add 10% For area weightage (Mangalore City)		318.1	
		Rate	3499.10	Cum
22	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 super structure in CM 1:6 (Cement 45 kgs/M3) (KPWD 2018-19,42.5.3)			
	For super structure in CM 1:6 (Cement 45 kgs/M3)- Ground Floor (KPWD 2018-19,42.5.3)			
	Basic rate		3391	
	Add 10% For area weightage (Mangalore City)		339.1	
		Rate	3730.10	Cum
	For super structure in CM 1:6 (Cement 45 kgs/M3)- First Floor (KPWD 2018-19,42.5.3)			
	Basic rate		3391	
	Lift Charges		312	

	Add 10% For area weightage (Mangalore City)		370.3	
		Rate	4073.30	Cum
For super structure in CM 1:6 (Cement 45 kgs/M3)- Second Floor (KPWD 2018-19,42.5.3)				
	Basic rate		3391	
	Lift Charges		624	
	Add 10% For area weightage (Mangalore City)		401.5	
		Rate	4416.50	Cum
For super structure in CM 1:6 (Cement 45 kgs/M3)- Third Floor (KPWD 2018-19,42.5.3)				
	Basic rate		3391	
	Lift Charges		936	
	Add 10% For area weightage (Mangalore City)		432.7	
		Rate	4759.70	Cum
For super structure in CM 1:6 (Cement 45 kgs/M3)- Third Floor (KPWD 2018-19,42.5.3)				
	Basic rate		3391	
	Lift Charges		1248	
	Add 10% For area weightage (Mangalore City)		463.9	
		Rate	5102.90	Cum
23	KSRB 5-15: Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m ³ having a minimum average compressive strength of 4.00 N/mm ² conforming to IS 2185 (Part 1)2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 (KPWD 18-19,Sl.No.5.28,Pg.No.27)			
	Ground Floor			
	Basic rate		811	
	Add 10% For area weightage (Mangalore City)		81.1	
		Rate	892.10	Sqm
	First Floor			
	Basic rate		811	
	Lift Charges (1 x Rs.35.0)		35	
	Add 10% For area weightage (Mangalore City)		84.6	
		Rate	930.60	Sqm
	Second Floor			
	Basic rate		811	
	Lift Charges (2 x Rs.35.0)		70	
	Add 10% For area weightage (Mangalore City)		88.1	
		Rate	969.10	Sqm
	Third Floor			
	Basic rate		811	
	Lift Charges (3 x Rs.35.0)		105	
	Add 10% For area weightage (Mangalore City)		91.6	
		Rate	1007.60	Sqm
24	KSRB 5-14.1 : Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m ³ having a minimum average compressive strength of 5.00 N/mm ² conforming to IS 2185 (Part 1) 2005 and constructed with CM 1 A, as per IS 25722005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 do- -with solid concrete blocks of size 400x200x200mm			

	Ground Floor			
	Basic rate		913	
	Add 10% For area weightage (Mangalore City)		91.3	
		Rate	1004.30	Sqm
	First Floor			
	Basic rate		913	
	Lift Charges (1 x Rs.35.0)		35	
	Add 10% For area weightage (Mangalore City)		94.8	
		Rate	1042.80	Sqm
	Second Floor			
	Basic rate		913	
	Lift Charges (2 x Rs.35.0)		70	
	Add 10% For area weightage (Mangalore City)		98.3	
		Rate	1081.30	Sqm
	Third Floor			
	Basic rate		913	
	Lift Charges (3 x Rs.35.0)		105	
	Add 10% For area weightage (Mangalore City)		101.8	
		Rate	1119.80	Sqm
25	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,Sl.No.15.13,Pg.No.115)			
	Ground Floor			
	Basic rate		222	
	Add 10% For area weightage (Mangalore City)		22.2	
		Rate	244.20	Sqm
	First Floor			
	Basic rate		222	
	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	
	Lift Charges (3 x Rs.6)		18	Pg.No.128
	Sub Total		240	
	Add 10% For area weightage (Mangalore City)		24	
		Rate	264.00	Sqm
26	KSRB15-5 : Providing rough cement plastering 15mm thick in single coat with cement mortar to brick masonry for base of dadoing 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,Sl.No.15.31,Pg.No.117)			
	Ground Floor			
	Basic rate		194	
	Add 10% For area weightage (Mangalore City)		19.4	
		Rate	213.40	Sqm

	First Floor			
	Basic rate		194	
	Lift Charges		6	Pg.No.128
	Sub Total		200	
	Add 10% For area weightage (Mangalore City)		20	
		Rate	220.00	Sqm
	Second Floor			
	Basic rate		194	
	Lift Charges (2 x Rs.6)		12	Pg.No.128
	Sub Total		206	
	Add 10% For area weightage (Mangalore City)		20.6	
		Rate	226.60	Sqm
	Third Floor			
	Basic rate		194	
	Lift Charges (3 x Rs.6)		18	Pg.No.128
	Sub Total		212	
	Add 10% For area weightage (Mangalore City)		21.2	
		Rate	233.20	Sqm
27	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. cement mortar 1:4 (KPWD 18-19,SI.No.15.22,Pg No.116)			
	Ground Floor			
	Basic rate		226	
	Add 10% For area weightage (Mangalore City)		22.6	
		Rate	248.60	Sqm
	First Floor			
	Basic rate		226	
	Lift Charges		6	Pg.No.128
	Sub Total		232	
	Add 10% For area weightage (Mangalore City)		23.2	
		Rate	255.20	Sqm
	Second Floor			
	Basic rate		226	
	Lift Charges (2 x Rs.6)		12	Pg.No.128
	Sub Total		238	
	Add 10% For area weightage (Mangalore City)		23.8	
		Rate	261.80	Sqm
	Third Floor			
	Basic rate		226	
	Lift Charges (3 x Rs.6)		18	Pg.No.128
	Sub Total		244	
	Add 10% For area weightage (Mangalore City)		24.4	
		Rate	268.40	Sqm
28	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			
	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	
		Rate	92.40	Sqm
	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 (3 x Rs.6)		18	
	Add 10% For area weightage (Mangalore City)		9.6	
		Rate	105.60	Sqm
29	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			
	Basic Rate		1167	
	Add 10% For area weightage (Mangalore City)		116.7	
		Rate	1283.7	Sqm
30	KSRB 15.10.3 Providing white washing to ceiling and l or sloping roof surface in two coats with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications.			
	Basic Rate		13	
	Add 10% For area weightage (Mangalore City)		1.3	
		Rate	14.3	Sqm
31	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,SI.No.15.16,Pg.No.116)			
	Ground Floor			
	Basic rate		262	
	Add 10% For area weightage (Mangalore City)		26.2	
		Rate	288.20	Sqm
	First Floor			
	Basic rate		262	
	Lift Charges (1 x Rs.12)		12	
	Add 10% For area weightage (Mangalore City)		27.4	
		Rate	301.40	Sqm
	Second Floor			
	Basic rate		262	
	Lift Charges (2 x Rs.12)		24	
	Add 10% For area weightage (Mangalore City)		28.6	
		Rate	314.60	Sqm
	Third Floor			
	Basic rate		262	
	Lift Charges (3 x Rs.12)		36	
	Add 10% For area weightage (Mangalore City)		29.8	

		Rate	327.80	Sqm
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 slurry mixed with pigment to match 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,Sl.No.14.45,Pg.No.109)			
Ground Floor				
	Basic rate		1128.00	
	Add 10% For area weightage (Mangalore City)		112.8	
		Rate	1240.80	Sqm
First Floor				
	Basic rate		1128.00	
	Lift Charges (1 x Rs.2)		2	
	Add 10% For area weightage (Mangalore City)		113	
		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 (2 x Rs.2)		6	
	Add 10% For area weightage (Mangalore City)		113.4	
		Rate	1247.40	Sqm
33	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. Specification No. KBS Ceramic Tiles of size 30x30cms, 6mm thick (KPWD 18-19,Sl.No.14.36.2,Pg.No.108)			
Ground Floor				
	Basic rate		1211.00	
	Add 10% For area weightage (Mangalore City)		121.1	
		Rate	1332.10	Sqm
First Floor				
	Basic rate		1211.00	
	Lift Charges (1 x Rs.2)		2	
	Add 10% For area weightage (Mangalore City)		121.3	
		Rate	1334.30	Sqm
Second Floor				
	Basic rate		1211.00	
	Lift Charges (2 x Rs.2)		4	
	Add 10% For area weightage (Mangalore City)		121.5	
		Rate	1336.50	Sqm
Third Floor				
	Basic rate		1211.00	
	Lift Charges (2 x Rs.2)		6	
	Add 10% For area weightage (Mangalore City)		121.7	
		Rate	1338.70	Sqm

34	Providing and laying pattern flooring for staircase treads and risers using the combination of 20mm thick ruby red granite@ 66%,20 mm thick grey granite@ 20%, 20mm thick, 20mm thick black granite 14%. The granite materials are laid with a bed of CM 1:3, 20mm thick pointed with colour pigment, including full rounding for nosing, flaming the ruby red granite for 50 mm wide including cost of all materials, mortar, labour, curing etc., complete as per specification. (KPWD 18-19,Sl.No.14.46,Pg.No.109)		
	Ground Floor		
	Basic rate		7195.00
	Add 10% For area weightage (Mangalore City)		719.5
		Rate	7914.50 Sqm
	First Floor		
	Basic rate		7195.00
	Lift Charges (1 x Rs.2)		2
	Add 10% For area weightage (Mangalore City)		719.7
		Rate	7916.70 Sqm
	Second Floor		
	Basic rate		7195.00
	Lift Charges (2 x Rs.2)		4
	Add 10% For area weightage (Mangalore City)		719.9
		Rate	7918.90 Sqm
	Third Floor		
	Basic rate		7195.00
	Lift Charges (2 x Rs.2)		6
	Add 10% For area weightage (Mangalore City)		720.1
		Rate	7921.10 Sqm
35	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		
	Basic rate		1213
	Add 10% For area weightage (Mangalore City)		121.3
		Rate	1334.30 Sqm
	First Floor		
	Basic rate		1213
	Lift Charges (1 x Rs.2)		2
	Add 10% For area weightage (Mangalore City)		121.5
		Rate	1336.50 Sqm
	Second Floor		
	Basic rate		1213
	Lift Charges (2 x Rs.2)		4
	Add 10% For area weightage (Mangalore City)		121.7
		Rate	1338.70 Sqm
	Third Floor		
	Basic rate		1213
	Lift Charges (3 x Rs.2)		6
	Add 10% For area weightage (Mangalore City)		121.9
		Rate	1340.90 Sqm

36	KSRB 14.13-1: Providing precast chequered mosaic tiles dark shade using ordinary grey cement for steps and flooring, with precast 20mm thick, using marble chips of 7 to 10 nominal size laid in floors, steps and landings on a bed of 12mm thick cement mortar 1:3 mix, and jointed with neat cement slurry mixed with pigment to match the shade of tiles, curing, rubbing, polishing, oxalic acid wash, wax polish, including cost of materials, labour, complete as per specifications. (KPWD 18-19,Sl.No.14.28,Pg.No.107)			
Ground Floor				
	Basic rate		1071	
	Add 10% For area weightage (Mangalore City)		107.1	
		Rate	1178.10	Sqm
37	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,Sl.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)		352.7	
		Rate	3879.70	Sqm
Second Floor				
	Basic rate		3525	
	Lift Charges (2 x Rs.2)		4	
	Add 10% For area weightage (Mangalore City)		352.9	
		Rate	3881.90	Sqm
Third Floor				
	Basic rate		3525	
	Lift Charges (3 x Rs.2)		6	
	Add 10% For area weightage (Mangalore City)		353.1	
		Rate	3884.10	Sqm
38	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. Granite Stone of approved shade (CPWD 2019.8.10.2)			
	Basic rate		3216.5	
		Rate	3216.50	Sqm
39	KSRB 15-15.3 • Providing and applying painting in one coat with plastic emulsion paint of approved brand and manufacture 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-			
	Basic rate		56	
	Add 10% For area weightage (Mangalore City)		5.6	
		Rate	61.60	Sqm

40	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon glazed primer with antifungal paint for top coat of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. (KPWD 18-19,Sl.No.15.104,Pg.No.127)			
Ground Floor				
	Basic rate		180	
	Add 10% For area weightage (Mangalore City)		18	
		Rate	198.00	Sqm
First Floor				
	Basic rate		180	
	Lift Charges (1 x Rs.8)		8	
	Add 10% For area weightage (Mangalore City)		18.8	
		Rate	206.80	Sqm
Second Floor				
	Basic rate		180	
	Lift Charges (2 x Rs.8)		16	
	Add 10% For area weightage (Mangalore City)		19.6	
		Rate	215.60	Sqm
Third Floor				
	Basic rate		180	
	Lift Charges (3 x Rs.8)		24	
	Add 10% For area weightage (Mangalore City)		20.4	
		Rate	224.40	Sqm
41	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,Sl.No.15.103,Pg.No.127)			
Ground Floor				
	Basic rate		340	
	Add 10% For area weightage (Mangalore City)		34	
		Rate	374.00	Sqm
42	KSRB 10-3 :Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc , consisting of following application. (a) Applying and 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)			
	Basic rate		1011	
	Add 10% For area weightage (Mangalore City)		101.1	
		Rate	1112.10	Sqm

43	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, @ 0.50kgsqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification (KPWD 18-19,Sl.No.10.5.1,Pg.No.69)			
	Basic rate		526	
	Add 10% For area weightage (Mangalore City)		52.6	
		Rate	578.60	Sqm
44	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,Sl.No.9.12,Pg.No.53)			
	Basic rate		102143	
	Add 10% For area weightage (Mangalore City)		10214.3	
		Rate	112357.30	Cum
45	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 9-6.1 : do- - Mathi/Nandi Wood (KPWD 18-19,Sl.No.9.16,Pg.No.53)			
Ground Floor				
	Basic rate		5273	
	Add 10% For area weightage (Mangalore City)		527.3	
		Rate	5800.30	Sqm
First Floor				
	Basic rate		5273	
	Lift Charges (1 x Rs. 4/Sqm)		4	
	Add 10% For area weightage (Mangalore City)		527.7	
		Rate	5804.70	Sqm
Second Floor				
	Basic rate		5273	
	Lift Charges (2 x Rs. 4/Sqm)		8	
	Add 10% For area weightage (Mangalore City)		528.1	
		Rate	5809.10	Sqm
Third Floor				
	Basic rate		5273	
	Lift Charges (3 x Rs. 4/Sqm)		12	
	Add 10% For area weightage (Mangalore City)		528.5	
		Rate	5813.50	Sqm
Terrace Floor				
	Basic rate		5273	
	Lift Charges (4 x Rs. 4/Sqm)		16	
	Add 10% For area weightage (Mangalore City)		528.9	
		Rate	5817.90	Sqm

46	<p>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,Sl.No.9.98,Pg.No.64)</p>			
Ground Floor				
	Basic rate		891	
	Add 10% For area weightage (Mangalore City)		89.1	
		Rate	980.10	Rmt
First Floor				
	Basic rate		891	
	Lift Charges (1 x Rs. 4/Sqm)		4	
	Add 10% For area weightage (Mangalore City)		89.5	
		Rate	984.50	Rmt
Second Floor				
	Basic rate		891	
	Lift Charges (2 x Rs. 4/Sqm)		8	
	Add 10% For area weightage (Mangalore City)		89.9	
		Rate	988.90	Rmt
Third Floor				
	Basic rate		891	
	Lift Charges (3 x Rs. 4/Sqm)		12	
	Add 10% For area weightage (Mangalore City)		90.3	
		Rate	993.30	Rmt
47	<p>SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm for styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet 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 75 mm Aluminium hinges. (KPWD 18-19,Sl.No.9.83,Pg.No.60)</p>			
Ground Floor				
	Basic rate		2776	
	Add 10% For area weightage (Mangalore City)		277.6	
		Rate	3053.60	Sqm
First Floor				
	Basic rate		2776	
	Lift Charges (1 x Rs. 4/Sqm)		4	
	Add 10% For area weightage (Mangalore City)		278	
		Rate	3058.00	Sqm
Second Floor				
	Basic rate		2776	
	Lift Charges (2 x Rs. 4/Sqm)		8	

	Add 10% For area weightage (Mangalore City)		278.4	
		Rate	3062.40	Sqm
Third Floor				
	Basic rate		2776	
	Lift Charges (3 x Rs. 4/Sqm)		12	
	Add 10% For area weightage (Mangalore City)		278.8	
		Rate	3066.80	Sqm
48	<p>Specification for uPVC Openable window Providing& fixing of Openable Door 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 openable frame. The frame having overall size of 60mm x 55mm with GI reinforcement of 1mm thickness and openable sash with overall size of 6Dmm x 75mm and GI reinforcement of 1.5mm thickness. Glazing bead for fixing of glass shall be of size 2Dmm x 34 mm. Windows shall be provided with 5mm plain float glass, Standard hardware with friction hing & Multi point locking system with Handle. Wall thickness of frame & sash shall be of 2mm-2.5mm. (KPWD 18-19,Sl.No.38.44.8,Pg no.310)</p>			
	Basic rate		5448	
	Add 10% For area weightage (Mangalore City)		544.8	
		Rate	5992.80	Sqm
49	<p>Providing & of Fixed Louvered Ventilator made out of multi chambered uPVC sections with TPv gaskets having isolated drainage and reinforced with Galvanized Iron profiles through out the window. The outer frame having a overall size of 60x55mm with reinforcement of 1 mm thickness and Mullion with overall size of 74x60mm with reinforcement of 1 mm thickness. Ventilator shall be provided with 4.5 mm Pin Head glass, standard hardware, Wall thickness of frame Mullion shall be 2-2.2 mm.</p>			
	Basic rate		4540	
	Add 10% For area weightage (Mangalore City)		454	
		Rate	4994.00	Sqm
50	<p>Providing and fixing Double shutter glass door of 12mm thick plain toughened glass of approved make. 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, as per the specification.</p>			
	Basic rate		8045	
	Add 10% For area weightage (Mangalore City)		804.5	
		Rate	8849.50	Sqm
51	<p>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.</p>			
Ground Floor				
	Basic rate		5373	
	Add 10% For area weightage (Mangalore City)		537.3	
		Rate	5910.30	Sqm

	First Floor			
	Basic rate		5373	
	Lift Charges (1 x Rs. 6/Sqm)		4	
	Add 10% For area weightage (Mangalore City)		537.7	
		Rate	5914.70	Sqm
	Second Floor			
	Basic rate		5373	
	Lift Charges (2 x Rs. 6/Sqm)		12	
	Add 10% For area weightage (Mangalore City)		538.5	
		Rate	5923.50	Sqm
	Third Floor			
	Basic rate		5373	
	Lift Charges (3 x Rs. 6/Sqm)		18	
	Add 10% For area weightage (Mangalore City)		539.1	
		Rate	5930.10	Sqm
52	<p>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 tenoned 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.</p>			
	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	
		Rate	4798.2	Sqm
	Third Floor			
	Basic Rate		4350	
	Lift Charges (3 x Rs.6 / sqm)		18	
	Add 10% For area weightage (Mangalore City)		436.8	
		Rate	4804.8	Sqm
53	<p>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)</p>			
	Basic rate		7500	

	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.14	Rate	7500.00	Nos.
54	Extra Lead for Disposing off unserviceable materials upto 10 Km beyond initial Lead of 5km			
	Debris		2.0x1.30x10Km	
	Baisc rate		26.00	
	Add Loading and unloading charges(Item No 17.1 KSRRB M100-1)		57.00	
	Sub Total		83.00	
	Add 10% For area weightage (Mangalore City)		8.3	
		Rate	91.30	Cum
55	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			
	Earth		2.0x1.28x10km	
	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

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Item Code: 11.41.2					
P/L Vitrified Antiskid Floor tiles laid on 20mm thk CM 1:4 including grouting the joints white cement complete.size of tile 60x60 cm					
Details of Cost for : 1.00 Sqm					
Code	Description	Unit	Quantity	Rate	Amount
	MATERIALS-				
	Porcelain floor tiles 60x60 cm size = 1.000 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
8621	Total = 1.025 sqm (Rs.31/Sqm)	sqm	1.025	333.56	341.90
9999	Carriage of tiles	L.S.	6.24	2.00	12.48
03.009	Cement mortar 1:4 (1 cement : 4 coarse sand).		0.024	4010.35	96.25
	(Rate as per item no. 3.90)				
9999	Mortar for pointing in white cement	L.S.	3.64	2.00	7.28
0367	Cement for slurry over bed @ 3.3 kg per sqm	tonne	0.0033	4940.00	16.30
	LABOUR:				
0123	Mason I class	Day	0.20	738.00	147.60
0115	Coolie	Day	0.20	558.00	111.60
9999	Sundries including carriage of cement etc	L.S.	26.91	2.00	53.82
				Total:	787.23
				Add water charges @ 1% on	787.23
					795.10
				Add C.P & OH @15% on	795.10
				Cost for 1.00 Sqm	914.37

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Code	Description	Unit	Quantity	Rate	Amount
	CPWD Rate Analysis (For Staircase)				
	Details of cost for 1 sqm				
	MATERIAL				
	Vitrified floor tiles 60 x 60 cm size =	Sqm	1.025	333.56	341.90
	1.00 sqm+				
	Add wastage & breakage @ 2.5% =	L.S	6.24	2	12.48
	0.025 sqm				
	Total = 1.025 sqm				
	Vitrified floor tile 60x60 cm				
	Carriage of tiles				
	12 mm thick Cement mortar				
	1 : 3 (1 cement : 3 coarse sand)				
	Rate as per Item No.3.8 of SH:Mortars	Cum	0.014	4664.55	65.30
	Mortar for pointing in white cement	L.S	3.64	2	7.28
	Cement slurry over bed @				
	3.3 kg per sqm				
	Portland Cement tonne	Tonne	0.0033	4940	16.30
	LABOUR				
	Mason (brick layer) 1st class	Day	0.25	738	184.50
	Coolie	Day	0.25	558	139.50
	Sundries including carriage of quick				
	set polymer etc.	L.S	26.91	2	53.82
	TOTAL				821.08
	Add 1 % Water charges on "W"				8.2108
	TOTAL				829.29
	Add GST on "X" (multiplying				
	factor 0.1405)				116.52
	TOTAL				945.81
	Add 15% CPOH on "Y"				141.87
	TOTAL				1087.68
	Add Cess @ 1% on "Z"				10.88
	Cost for 1 sqm				1098.55
	Say				1098.55

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BOQ OF SOFTSCAPE

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	52.50	140.00	7,350	
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	25.86	224.40	5,803	
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	78.36	113.30	8,878	
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	78.36	23.91	1,874	
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	130.60	17.60	2,299	
1.2	Tree and Turf					
1.2.1	ZOYSIA JAPONICA (MAT) (Non SOR Item)	Sqm	130.60	156.80	20,478	
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	70.00	50.60	3,542	
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.	40.00	115.50	4,620	
Total					54,844	

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Measurement Sheet of softscape

Sr.No.	Item	Unit	No.	L	B	H	Qty.
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)						
	Landscape Area 1	Cum	0.67	12.43		0.60	5
	Landscape Area 2	Cum	0.67	27.64		0.60	11.11
	Landscape Area 3	Cum	0.67	90.53		0.60	36.39
	Consider 2/3rd Qty of Item No.1.1.7	Cum					52.50
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)						
	Landscape Area 1	Cum	0.33	12.43		0.6	2.46
	Landscape Area 2	Cum	0.33	27.64		0.6	5.47
	Landscape Area 3	Cum	0.33	90.531		0.6	17.93
	Consider 1/3rd Qty of Item No.1.1.7	Cum					25.86
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	12.43		0.6	7.46
	Landscape Area 2	Cum	1	27.64		0.6	16.58
	Landscape Area 3	Cum	1	90.531		0.6	54.32
						Total	78.36
1.1.4	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)						
	Consider Same Qty. of 1.1.7	Cum					78.36
1.1.5	Soil preparation of Lawn						
	KSRRB M300-3.Making lawns including ploughing and breaking of clod,removal of rubbish,dressing and supplying doobs grass roots and planting at 15 cm apart,including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications. MORTH Specification No.307 (KSRRB 19.80)						
	In rows 5 cm apart in both directions						
	Landscape Area 1	Sqm	1	12.43			12.43
	Landscape Area 2	Sqm	1	27.64			27.64
	Landscape Area 3	Sqm	1	90.53			90.53

Sr.No.	Item	Unit	No.	L	B	H	Qty.
						Total	130.60
1.2	ZOYSIA JAPONICA (MAT) (Non SOR Item)						
	Landscape Area 1	Sqm	1	12.43			12.43
	Landscape Area 2	Sqm	1	27.64			27.64
	Landscape Area 3	Sqm	1	90.53			90.53
						Total	130.60
1.2.1	KSRRB M300- 8.1. Planting and Maintaining of Flowering Plants and Shrubs -A) Planting flowering plants and shrubs in central verge MORTH Specification No. 307	Rm	2	35			70.00
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.	40				40.00

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RATE ANALYSIS - SOFTSCAPE

1.1.1	Supplying and stacking of good earth at site including royalty and carriage upto 5 k.m. lead complete (earth measured in stacks will be reduced by 20% for payment). (Non SOR Item)			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.27	Rate	140.00	Cum
1.1.2	KSRRB M300-Supply at site of work well decayed farm yard manure KSRRB M300-11. Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stackin complete as per specifications. MORTH Specification No. 308.2(Page No.152,SI.No.19.90)			
	Basic rate		204	
	Add 10% For area weightage		20.4	
		Rate	224.40	Cum
1.1.3	KSRRB M300-Horticulture KSRRB M300-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)			
	Basic rate		103	
	Add 10% For area wightage		10.3	
		Rate	113.30	Cum
1.1.4	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge (Non SOR item)			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.28	Rate	23.91	Cum
1.1.5	KSRRB M300-3.Making lawns including ploughing and breaking of clod,removal of rubbish,dressing and supplying doobs grass roots and planting at 15 cm apart,including supplying and spreading of farm yard manure at rate of 0.18cum per 100 sqm complete as per specifications. MORTH Specification No.307 (KSRRB 19.80)			
	Basic rate		16	
	Add 10% For area wightage		1.6	
		Rate	17.60	Sqm
1.2	TURF			
1.2.1	ZOYSIA JAPONICA (MAT) (Non SOR Item)			
	Rate Approved as per EOI by MD MSCL Mangalore,Refer Sr.No.32	Rate	156.80	Sqm
1.2.1	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			

	Basic rate		46	
	Add 10% For area wightage		4.6	
		Rate	50.60	Rm
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,forcking the ground, top dressing with forked soil			
	Basic rate		105	
	Add 10% For area wightage		10.5	
		Rate	115.50	Nos.

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Name of the Work :- Mangalore Smart City
4.5 Rate Analysis of taking out paver block

Sr.No.	Description	Unit	Quantity	Rate	Amount	Reference
1	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.					
	Details of cost for 10 sqm.					
a	Labour					
b	Beldar	Day	0.25	446.2	111.55	KPWD 18-19 SOR, Pg No.LVI SI No.5
c	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	
e	Add 1% Water Charges				5.62	
	Total				568.04	
f	Add 10 % Contractor's profit				56.8	
g	Add 10 % Contractor's overheads				56.804	
	Cost of 10 sqm				681.644	
	Cost of 1 sqm				68.16	

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			R0 16-10-2019
Summary For PHE & FF Services for MCC ANNEX Project			
Sr. No.	Description	Estimated Rate (Rs.)	Operation & Maintenance cost for 2 years
1	PHE	11,62,922	85,800.00
2	FF	1,14,912	35,000.00
	TOTAL COST (Rs)	12,77,834	1,20,800
	Taxes will be additional		

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MCC Annex, Manglore Smart City

Bill Of Quantity For PHE Services

Sr. No.	Reference	Description of Items	Unit	Quantity	Supply and Installtion	Supply and Installtion Amount
					Rate	
1		SANITARYWARE & FITTINGS				
1.1	P.W.D (Manglore Circle) 2018-19 . SI No. 12.5	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 rmaking good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Nos.	27	4956	133812
1.2	D.S.R 2018 (C.P.W.D) (Vol 2) Item No. 18.49.1	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931				
		15 mm nominal bore	Nos.	27	418.95	11311.65
1.3	P.W.D CIVIL (Gov. of Maharashtra) 2018-19 Item No. 48.29	Providing and fixing Hand shower (health faucet) with 8mm dia. 1m long flexible tube having wall hook with approved make including necessary sockets/ union nut etc. complete as directed by Engineer in charge.	Nos.	27	1677	45279
1.4	P.W.D (Manglore Circle) 2018-19 . SI No. 12.25	Providing and fixing white vitreous china clay, flat back wash basin size 550x400mm with a pair of 15mm C.P brass pillar taps with C. I I M .S brackets, 32 mm C. P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications				
		size 550 x 400mm	Nos.	14	3879	54306
1.5	BWSSB SOR 2016- 17 .Section 19 SI No. 33	Providing vitreous china clay toilet paper holder with a pack of papers as per specification	Nos.	27	414	11178
1.6	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 proper connection complete as required.	Nos.	8	864	6912

Sr. No.	Reference	Description of Items	Unit	Quantity	Supply and Installation	Supply and Installation Amount
					Rate	
1.7	P.W.D (Manglore Circle) 2018-19 SI No. 12.7	Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.1/ M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Nos.	9	3072	27648
1.8	D.S.R 2018 (C.P.W.D) (Vol 2) Item No. 17.69.1	Providing and fixing PTMT Waste Coupling 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.	23	99.75	2294.25
1.9	D.S.R 2018 (C.P.W.D) (Vol 2) Item No. 17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	Nos.	14	883.05	12362.7
1.1	P.W.D (Manglore Circle) 2018-19 SI No. 12.39	Providing and fixing 600x450mm bevel Lead edge mirror of superior glass with 6mm hard board backing and fixed to wooden cleats with C.P screws, washers, including cost of materials, labour complete as per specifications.	Nos.	14	1157	16198
1.11	BWSSB SOR 2016-17 .Section 19 SI No. 49.2	Providing and fixing liquid soap glass dispenser and holder as per design.	Pair	8	145	1160
1.12	Market rate	Supplying and fixing of fully automatic " No Touch " Hand drier suitable to operate on 230 volts, single phase 50 Hz, A.C. power supply and directly plugged to power point complete.	Nos.	8	8500	68000
2		INTERNAL WATER SUPPLY SYSTEM				
2.1	P.W.D (Manglore Circle) 2018-19	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.)				
	SI No. 13.86.1	15mm nominal OD pipes	Rmt	75	206	15450
	SI No. 13.86.2	20mm nominal OD pipes	Rmt	49	235	11515
	SI No. 13.86.3	25mm nominal OD pipes	Rmt	26	293	7618
	SI No. 13.86.4	32mm nominal OD pipes	Rmt	38	374	14212

Sr. No.	Reference	Description of Items	Unit	Quantity	Supply and Installation	Supply and Installation Amount
					Rate	
2.2	P.W.D (Manglore Circle) 2018-19	Providing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work)				
	SI No. 13.87.5	40mm nominal OD Pipe	Rmt	15	292	4380
	SI No. 13.87.5	50mm nominal OD Pipe	Rmt	108	432	46656
	SI No. 13.87.6	62.50mm nominal OD Pipe	Rmt	72	1410	101520
	SI No. 13.87.7	75mm nominal OD Pipe	Rmt		1800	0
2.3	P.W.D (Manglore Circle) 2018-19	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgs/sqcm working pressure of outside diameter chemp plast I Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM and testing complete as per specifications				
	SI No. 13.77	32 mm dia	Rmt		129	0
	Market Rate	40 mm dia	Rmt	22	0	0
		65 mm dia	Rmt	110	0	0
2.4	Market Rate	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				
	SI No. 12.116.1	do- 110 mm dia	Rmt	130	750	97500
	Market Rate	do- 75 mm dia	Rmt	125	450	56250
2.5	Market Rate	Providing & fixing PVC Vent Cowl				
		110 mm	Nos.	5	450	2250
		65 mm	Nos.	5	320	1600
2.6	P.W.D (Manglore Circle) 2018-19	Providing and fixing gun metal wheel valve 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.		395	0
	SI No. 13.79.2	20mm dia	Nos.	4	414	1656
	SI No. 13.79.3	25mm dia	Nos.	3	447	1341
	SI No. 13.79.4	32mm dia	Nos.	4	486	1944
	SI No. 13.79.5	40mm dia	Nos.		562	0
	SI No. 13.79.6	50mm dia	Nos.	0	734	0
2.7	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 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 :				
		40 mm	Set	2	3509	7018
		50 mm	Set	3	3671	11013
		65 mm	Set	3	4149	12447

Sr. No.	Reference	Description of Items	Unit	Quantity	Supply and Installation	Supply and Installation
					Rate	Amount
		80 mm	Set		4842	0
		100 mm	Set		6454	0
2.8	C.P.W.D, D.S.R & A.O.R 2019, For Wet Riser & Sprinkler System Code No. 14	Providing, installation, testing and commissioning of non-return valve of following sizes conforming to IS: 5312 complete with rubber gasket, GI bolts, nuts,washers etc.as required :				
		40 mm	Set		5646	0
		50 mm	Set	2	5646	11292
		65 mm	Set		6274	0
		80 mm	Set		7539	0
		100 mm	Set		10836	0
2.9		Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.				
	Market Rate	50 mm	Each	2	4573	9146
2.1	P.W.D ELECTRICAL (Gov. of Maharashtra) 2018-19 Item No. 13-7-14	Supplying and installing pressure gauge 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
2.11	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. 13.40	15 mm dia nominal	Nos.		343	0
	SI No. 13.41	20 mm dia nominal	Nos.		359	0
	SI No. 13.42	25 mm dia nominal	Nos.	2	513	1026
2.12	P.W.D (Manglore Circle) 2018-19 SI No. 40.89	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.	Nos.	2	1875	3750
3		EXTERNAL WATER SUPPLY SYSTEM				
3.1	P.W.D (Manglore Circle) 2018-19	Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 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. 13.13	32 mm dia	Rmt		283	0
	SI No. 13.14	40 mm dia	Rmt		355	0
	SI No. 13.15	50 mm dia	Rmt	22	388	8536
	SI No. 13.18	100 mm dia	Rmt	70	1001	70070

Sr. No.	Reference	Description of Items	Unit	Quantity	Supply and Installtion	Supply and Installtion Amount
					Rate	
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
4		INTERNAL DRAINAGE SYSTEM				
4.01	P.W.D (Manglore Circle) 2018-19 SI No. 12.113	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).				
		10 cms x 7.5 cms	Each	4	850	3400
		12.5 cms x 7.5 cms	Each	28	1120	31360
4.2	Market Rate	Supplying & Fixing in position 100 mm dia UPVC Multi traps of self cleaning design including 125 mm dia brass C.P. grating, jointing, embedding in concrete etc. complete. Rate to include making of opening in floor, marble / tiles, for fixing C.P gratings, extension connector as required, complete.	Nos.	14	1520	21280
4.3	Market Rate	Providing and fixing PVC Gully Trap as per specification				
		300 X 300	Nos.	8	1150	9200
5		EXTERNAL DRAINAGE SYSTEM				
5.1	P.W.D (Manglore Circle) 2018-19 SI No. 11.2	Providing and laying in position to required level or slope of internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1•1, testing of pipes and JOints, including cost of materials, labour charges complete as per specifications.				
		-do -150mm	Rmt	72	368	26496
		Inspetion Chamber				

Sr. No.	Reference	Description of Items	Unit	Quantity	Supply and Installation	Supply and Installation Amount
					Rate	
5.2	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
5.3	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
5.4		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 polythylar 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 between 200 to 1000 liters				
		Capacity- 8000 ltr	Unit	1	96000	96000
5.5		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.				

Sr. No.	Reference	Description of Items	Unit	Quantity	Supply and Installtion	Supply and Installtion Amount
					Rate	
		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	
		Head : 35 Mts				
		Purpose : Water Transfer from UGT to OHT				
		Location : Underground Tank				
Total Cost of PHE Services (Rs)						11,62,922

**Assistant Engineer
MSCL Mangaluru**

**Assistant Executive Engineer
MSCL Mangaluru**

**Executive Engineer
MSCL Mangaluru**

**General Manager Technical
MSCL Mangaluru**

MCC Annex, Manglore Smart City						
Bill Of Quantity For Fire-Fighting Services						
Sr. No.	Reference	Description of Items	Unit	Quantity	Supply and Installation	Supply and Installation Amount
					Rate	
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	24	4788	114912
Total Cost of Fire Fighting Services (Rs)						1,14,912

Assistant Engineer
MSCL Mangaluru

Assistant Executive Engineer
MSCL Mangaluru

Executive Engineer
MSCL Mangaluru

General Manager Technical
MSCL Mangaluru

Summary for ELECTRICAL & ELV Services for MCC Annex, Mangaluru Smart City

SR. NO.	DESCRIPTION	TOTAL COST (Rs.)
A	ELECTRICAL SERVICES	98,39,970
B	ELV SERVICES	
i	FIRE ALARM SYSTEM	11,35,826
	TOTAL COST (Rs.)	1,09,75,796

Assistant Engineer
MSCL Mangaluru

Assistant Executive Engineer
MSCL Mangaluru

Executive Engineer
MSCL Mangaluru

General Manager Technical
MSCL Mangaluru

Bill of Quantity Electrical works (MCC Annex Building)

S.No	Ref.	No.	Description of Item	Unit	QTY	Rate (Rs)	Amount
						Rate	
	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.				
			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.				
			5. Routine tests will be conducted at factory in presense of user as per relevant IS.				
			All Electrical component should have IS mark				
1.1			Main LT Panel	Nos.	1	153269.00	1,53,269.00
			Incomer				
			1 Nos. 400 Amps TPN MCCB of fault breaking capacity 25KA (Ics=Icu)				
			BUSBARS SECTIONS				
			400 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				
			100 A TPN MCCB				
			125-160A FP MCCB				
			5-32 A TPN				
			40-63 A TPN				
			2A SP MCB				
1.2			Main Lighting Panel	Nos.	1	40319.00	40,319.00
			Incomer				
			1 Nos. 40 -63 Amps TPN MCB				
			BUSBARS SECTIONS				
			100 amps FP, 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				
			5-32 A TPN				
			2A SP MCB				
1.3			Main Power panel	Nos.	1	68094.00	68,094.00
			Incomer				
			1 Nos. 100 Amps TPN MCCB of fault breaking capacity 25KA (Ics=Icu)				

S.No	Ref.	No.	Description of Item	Unit	QTY	Rate (Rs)	Amount
						Rate	
			BUSBARS SECTIONS				
	Refer Panel Cost Sheet		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				
			5-32 A TPN				
			40-63 A TPN				
			2A SP MCB				
1.4			Main HVAC Panel	Nos.	1	79080.00	79,080.00
			Incomer				
			1 Nos. 100 Amps TPN MCCB of fault breaking capacity 25KA (lcs=lcu)				
			BUSBARS SECTIONS				
	Refer Panel Cost Sheet		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				
			40-63 A TPN				
			2A SP MCB				
1.5			Main UPS panel	Nos.	1	64621.00	64,621.00
			Incomer				
			1 Nos. 100 Amps TPN MCCB of fault breaking capacity 25KA (lcs=lcu)				
			BUSBARS SECTIONS				
	Refer Panel Cost Sheet		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				
			40-63 A TPN				
			2A SP MCB				
1.7			Plumbing Panel	Nos.	1	44023.00	44,023.00
			Incomer				
			1 Nos. 40-63 Amps TPN MCB				
			BUSBARS SECTIONS				
	Refer Panel Cost Sheet		100 amps FP, 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				
			5-32 A TPN				
1.7			LIFT PANEL	Nos.	1	82974.00	82,974.00
			Incomer				
			125-160A FP MCCB				
			BUSBARS SECTIONS				
	Refer Panel Cost Sheet		250A Busbar amps FP, 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				
			40-63 A TPN				
			5-32 A TPN				
			2A SP MCB				
			Total Cost of LT Panel (Rs.)				5,32,380.00

S.No	Ref.	No.	Description of Item	Unit	QTY	Rate (Rs)	Amount
						Rate	
2			Distribution Board				
2.1	6.17		Supplying and fixing regular MCB distribution boards on wall/wood board / flush mounting using required clamps, bolt, nuts etc. with provision for fixing suitable type capacity MCB's single phase / 3 phase / single goor with powder coated painting. Made out of 14 SWG MS enclosure.				
			III - Double Door				
2.1.2	6.17.8		6Way TP & N	Nos.	1	2867	2,867.00
2.1.3	6.17.9		8Way TP & N	Nos.	9	3585	32,265.00
2.1.4	6.17.10		12Way TP & N	Nos.	4	5138	20,552.00
2.2	6.16		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 conforming to IEC 60898				
2.2.1	6.16.1		5-32Amps SP	Nos.	125	418	52,250.00
2.2.2	6.16.6		40-63Amps TPN	Nos.	14	1936	27,104.00
2.3	6.18		Supplying fixing and wiring Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on existing wood/panel board.				
2.3.1	6.18.2		32-40 Amps 2Pole	Nos.	42	2623	1,10,166.00
2.4			SITC of weather proof isolator consisting enclouser,metal socket, MCB of required rating with all accesories required to Complete the job in full respect.				
2.4.3	6.42.1 , 6.43.2, 6.44.1		25A SPN ISOLATOR	Nos.	27	5384	1,45,368.00
Total Cost of Distribution Board (Rs.)							3,90,572.00
3			LT Electrical Cable				
			LT Cable				
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	7.4.13		3.5C x 240sq.mm Al Arm Cable	Mtr	60	1030	61,800.00
3.1.2	7.4.6		3.5C x 35sq.mm Al Arm Cable	Mtr	50	204	10,200.00
3.3.3		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/ pipe as per specification no. CB-LT/CU	Mtr	80	734.00	58,720.00
3.3.4		PWD 7-2-33	Supplying, erecting & terminating XLPE armoured cable 4 core 10 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	Mtr	70	512.00	35,840.00
3.3.5		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	500	336.00	1,68,000.00
3.3.6		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	400	251.00	1,00,400.00
			LT Cable Termination				
3.4	7.14		Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1KV class (metal only)				
3.4.1	7.14.1		19/20mm dia	Each	72	70.00	5,040.00
3.4.2	7.14.2		25mm dia	Each	4	86.00	344.00

S.No	Ref.	No.	Description of Item	Unit	QTY	Rate (Rs)	Amount
						Rate	
3.4.3	7.14.3		32mm dia 2.5mm thick	Each	4	122.00	488.00
3.4.4	7.14.5		50mm dia	Each	2	264.00	528.00
3.5	7.21		Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.				
3.5.1	7.21.3		4 sqmm	Each	64	6.25	400.00
3.5.2	7.21.4		6 sqmm	Each	80	6.25	500.00
3.5.3	7.21.5		10 sqmm	Each	8	7.65	61.20
3.5.4	7.21.6		16 sqmm	Each	12	11.21	134.52
3.5.5	7.21.8		35 sqmm Long barrel	Each	12	35.72	428.64
3.5.6	7.21.12		120 sqmm Long barrel	Each	2	196.56	393.12
3.5.7	7.21.15		240 sqmm Long barrel	Each	6	478.92	2,873.52
			Cable Laying				
3.6	7.8		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				
3.6.1	7.8.3		185 to 240 sqmm	Mtr	40	27.00	1,080.00
3.7			on wall structure				
3.7.1	7.8.6		6 to 16 sqmm	Mtr	1020	31.00	31,620.00
3.7.2	7.8.7		25 to 75 sqmm	Mtr	40	34.80	1,392.00
3.8	7.9		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)				
3.8.1	7.91		In soil (ordinary)	Mtr	40	78.00	3,120.00
			Total Cost of LT Cables (Rs.)				4,83,363.00
4			Networking & Telecommunication				
4.1	11.1		Supply & Drawing UTP-CAT6E LAN Cable	Rmt	4000	23.00	92,000.00
4.2			Supply & Fixing of switch mounting rack with power manager & Cable manager				
4.2.1	11.4.3		12U with 450mm depth	Nos	1	7754.00	7,754.00
4.3	11.9		Supply fixing of Network Switches				
4.3.1	11.9.1		48 Port Gigabyte (Manageble)	Nos.	1	34815.00	34,815.00
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	590.00
4.5	11.11		Supplying & fixing ofmtr Cat6 Patch cable				
4.5.1	11.11.3		3mtr	Nos.	110	337.00	37,070.00
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	13,082.00
			Total Cost of LT Cables (Rs.)				1,85,311.00
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 30 kVA.-PRs mode 3Ph-3Ph. with Batteries 6 x 80Ah volt and other accesories to complete the job	Nos	1	600000	6,00,000.00
			Total Cost of UPS (Rs.)				6,00,000.00
6			Cable Tray & Raceways				
			Cable trays				
6.1	7.19.1		Supplying & fixing 2mm thick galvanized perforated tray with powder coated paint on existng MS angle support using necessary GI bolts/nuts and washer or welding as required.				

S.No	Ref.	No.	Description of Item	Unit	QTY	Rate (Rs)	Amount
						Rate	
6.1.1	7.19.1		150 X 50 mm	Mtr	200	440.00	88,000.00
6.1.2	7.19.2		300 X 50 mm	Mtr	60	547.00	32,820.00
6.3			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.				
6.3.1			300 x 50 Double compartment	Rmt	100	1215.0	1,21,500.00
6.3.2			150 x 50 Single compartment	Rmt	300	590.0	1,77,000.00
6.4			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.				
6.4.1			300 mm wide x 40 mm deep raceway with 3/2/1 compartments	Nos	120	1000.0	1,20,000.00
6.4.2			150 mm wide x 40 mm deep single compartment raceway	Nos	15	800.0	12,000.00
Total Cost of Cable Tray & Raceways (Rs.)							5,51,320.00
7			Light Fixture				
7.1	4.33		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 efficiency >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 modular down light 2' x 2' -36watts	Each	194	8242	15,98,948.00
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 corrosion resistant polyester powder coat & with extended heat sink. Diffuse/cover made of lexan plastic material. rated life shall be L70 @ 50000 Hrs which shall have 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	162	4945	8,01,090.00
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	52	1868	97,136.00
7.4	4.23		Supply CFL mirror light fitting with 1X11W CFL lamp, choke, perspex cover and completely cwired for use on 230 V 50Hz supply	Nos.	9	648	5,832.00
7.5			11W Bulkhead				
7.5.1		PWD 2-2-5	Supplying and erecting bulkhead fitting suitable for upto LED upto 12W fixed on wall. As per specification no. FG-IDF/BHF	Nos.	4	221.00	884.00

S.No	Ref.	No.	Description of Item	Unit	QTY	Rate (Rs)	Amount	
						Rate		
7.6	4.8		Supplying Industrial box type suitable for 28W T5 single / twin lamp along with stove enameled while reflector & suspension mounted luminaire & optical reflector , prewired with HF electronic ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS sheet and finishing is done with stove enameled white with end caps made of engineering plastic					
7.6.1	4.8.1		1 X 4' - 28 Watts	Each	8	1290.00	10,320.00	
7.7	4.38		Accessories					
7.7.1	4.38.2		28W T5 fluorescent Tube : Supplying & fixing of T5 fluorescent tube with 28W power consumption with low 3mg Mercury content & below 40% glass content than T8 lamp & 20% less phospher coating than T8 with initial lumen on 2900 (for 6500 deg Kelvin), 2700 (for 3000/4000 deg kelvin) & rated Avg life (12 Hrs . Cycle) of greater than 35000 burning hours.	Each	8	144.00	1,152.00	
Total Cost of Light Fixture (Rs.)								25,15,362.00
8			POINT WIRING					
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 inverted 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	1500	70.00	1,05,000.00	
8.1.2	1.1.3		32mm dia 2.5mm thick	Mtr	1000	100.00	1,00,000.00	
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 should 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	500	57.00	28,500.00	
8.2.2	1.2.3		32mm dia 2.5mm thick	Mtr	500	90.00	45,000.00	
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	7650	18.60	1,42,290.00	
8.3.2	2.5.3		2.5 sqmm	Mtr	9450	29.20	2,75,940.00	
8.3.3	2.5.4		4 sqmm	Mtr	3400	42.10	1,43,140.00	
8.4			SWITCH, SOCKETS & ACCESSORIES					
			Switch, socket , data & telephone points for Workstation Area					
8.4.1	3.5		Supply and flush mounting powder coated/ galvanised metal box suitable for mounting modular switch plated. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall					
	3.5.3		6 Way	Each	316	121.00	38,236.00	
8.4.2	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					
	3.6.3		6 Module	Each	316	173.0	54,668.00	
8.4.3	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					
8.4.3.1	3.7.7		16 Amp one way switch	Each	330	114.00	37,620.00	
8.4.3.2	3.7.10		6/16 Amps Universal Socket	Each	330	147.00	48,510.00	
8.4.3.3	3.7.11		TV / Telephone Socket	Each	110	82.00	9,020.00	
8.4.3.4	3.7.12		RJ45/IO Outlet	Each	110	204.00	22,440.00	

S.No	Ref.	No.	Description of Item	Unit	QTY	Rate (Rs)	Amount
						Rate	
8.5			Switch, socket , data & telephone points & other accesories excluding workstation area				
8.5.1	3.5		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				
	3.5.1		1-3 Way	Each	120	91.00	10,920.00
8.5.2	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				
	3.6.1		1 - 3 Module	Each	120	109.00	13,080.00
8.5.3	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				
8.5.3.1	3.7.1		6 amp one Way	Each	281	63.00	17,703.00
8.5.3.2	3.7.3		6 amp 3Way Socket	Each	36	95.00	3,420.00
8.5.3.3	3.7.7		16 Amp one way switch	Each	82	114.00	9,348.00
8.5.3.4	3.7.10		6/16 Amps Universal Socket	Each	82	147.00	12,054.00
8.5.3.5	3.7.9		32 A DP Switch	Each	27	164.00	4,428.00
Total Cost ofPoint Wiring (Rs.)							11,21,317
9			Earthing				
			GI EARTHING				
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	4	5308.00	21,232.00
		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	23,588.00
9.2		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	80	131.00	10,480.00
		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	34,120.00
9.3	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.				
			GI wire				
9.4	7.22.3		8 SWG	Mtr	150	19.50	2,925.00
Total Cost of Earthing (Rs.)							92,345
10	14.2.B1		Design, supplying, erecting testing and commissioning of - passenger/ hospital lift with speed of 1mtr per second, variable voltage variable frequency drive, with or without machine room for the available well size, operating at 415 V three phax\se 50 cycles AC supply, powder coated or stainless steel car entrance doors enclosures with flooring, car illumination, emergency light, intercom and fan as desired by the user, central opening / side opening door with or without attendant operation, 7 segment display buttons, call register indicator, fireman drive, SS handrails inside car, full length infrared curtain in car door, automatic rescue device, voice announcing in regional languages, Braille buttons with one year warranty and maintenance with necessary scaffolding and minor civil works like fixing of guide rail, counter weight etc., With machine room-SS Finish--- Capacity-4 stops & 6 Passangers capacity	Each	1	1560000	15,60,000.00

S.No	Ref.	No.	Description of Item	Unit	QTY	Rate (Rs)	Amount	
						Rate		
11	14.2.B2		Design, supplying, erecting testing and commissioning of - passenger/ hospital lift with speed of 1mtr per second, variable voltage variable frequency drive, with or without machine room for the available well size, operating at 415 V three phax\se 50 cycles AC supply, powder coated or stainless steel car entrance doors enclosures with flooring, car illumination, emergency light, intercom and fan as desired by the user, central opening / side opening door with or without attendant operation, 7 segment display buttons, call register indicator, fireman drive, SS handrails inside car, full length infrared curtain in car door, automatic rescue device, voice announcing in regional languages, Braille buttons with one year warranty and maintenance with necessary scaffolding and minor civil works like fixing of guide rail, counter weight etc., With machine room-SS Finish--- Capacity--4 stops & 8 Passangers capacity	Each	1	1808000	18,08,000.00	
Total Cost of Electrica Services (Rs.)								98,39,970

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PANEL COST -MCC ANNEX BUILDING

	Description	Unit	Qty	Rate	Amount	SOR Code
MCCB	100 A TPN MCCB	Nos.	2	5809	11618	6.13.6
	125-160A FP MCCB	Nos.	1	7372	7372	6.13.7
	320-400A FP MCCB	Nos.	1	24511	24511	6.13.10
MCB	5-32 A TPN	Nos.	2	1537	3074	6.16.5
	40-63 A TPN	Nos.	5	1936	9680	6.16.6
	2A SP MCB	Nos.	6	418	2508	6.16.1
	Indicator Lamp	Nos.	6	442	2652	6.36
	MFM Meter	Nos.	1	8003	8003	6.31
	50/5VA - 400/5A	Nos.	3	483	1449	6.32
	400A Busbar	Mtr	14	3823	53522	6.38.3
	MS Support	Mtr	5	263	1315	6.39.1
	Cubical	sq.cm	74500	0.37	27565	6.40.1
					1,53,269.00	
	Description	Unit	Qty	Rate	Amount	SOR Code
	MAIN LIGHTING PANEL					
	5-32 A TPN	Nos.	6	1537	9222	6.16.5
	40-63 A TPN	Nos.	1	1936	1936	6.16.6
	2A SP MCB	Nos.	6	418	2508	6.16.1
	Indicator Lamp	Nos.	6	442	2652	6.36
	MFM Meter	Nos.	1	8003	8003	6.31
	50/5VA - 400/5A	Nos.	3	483	1449	6.32
	100A Busbar	Mtr	3	2135	6405	6.38.1
	MS Support	Mtr	1	263	263	6.39.1
	Cubical	sq.cm	21300	0.37	7881	6.40.1
					40,319	

	Description	Unit	Qty	Rate	Amount	SOR Code
	MAIN POWER PANEL					
MCCB	100 A TPN MCCB	Nos.	1	5809	5809	6.13.6
MCB	5-32 A TPN	Nos.	1	1537	1537	6.16.5
	40-63 A TPN	Nos.	7	1936	13552	6.16.6
	2A SP MCB	Nos.	6	418	2508	6.16.1
	Indicator Lamp	Nos.	6	442	2652	6.36
	MFM Meter	Nos.	1	8003	8003	6.31
	50/5VA - 400/5A	Nos.	3	483	1449	6.32
	100A Busbar	Mtr	9	2135	19215	6.38.1
	MS Support	Mtr	3	263	789	6.39.1
	Cubical	sq.cm	34000	0.37	12580	6.40.1
					68,094.00	
	Description	Unit	Qty	Rate	Amount	SOR Code
	MAIN HVAC PANEL					
MCCB	100 A TPN MCCB	Nos.	1	5809	5809	6.13.6
MCB	40-63 A TPN	Nos.	5	1936	9680	6.16.6
	2A SP MCB	Nos.	6	418	2508	6.16.1
	Indicator Lamp	Nos.	6	442	2652	6.36
	MFM Meter	Nos.	1	8003	8003	6.31
	50/5VA - 400/5A	Nos.	3	483	1449	6.32
	100A Busbar	Mtr	12	2135	25620	6.38.1
	MS Support	Mtr	3	263	789	6.39.1
	Cubical	sq.cm	61000	0.37	22570	6.40.1
					79,080.00	

	Description	Unit	Qty	Rate	Amount	SOR Code
	MAIN UPS PANEL					
MCCB	100 A TPN MCCB	Nos.	1	5809	5809	6.13.6
MCB	40-63 A TPN	Nos.	6	1936	11616	6.16.6
	2A SP MCB	Nos.	6	418	2508	6.16.1
	Indicator Lamp	Nos.	6	442	2652	6.36
	MFM Meter	Nos.	1	8003	8003	6.31
	50/5VA - 400/5A	Nos.	3	483	1449	6.32
	100A Busbar	Mtr	9	2135	19215	6.38.1
	MS Support	Mtr	3	263	789	6.39.1
	Cubical	sq.cm	34000	0.37	12580	6.40.1
					64,621.00	
	PLUMBING PANEL					
MCB	5-32 A TPN	Nos.	5	1537	7685	6.16.5
	40-63 A TPN	Nos.	1	1936	1936	6.16.6
	MFM Meter	Nos.	1	8003	8003	6.31
	50/5VA - 400/5A	Nos.	1	483	483	6.32
	100A Busbar	Mtr	6	2135	12810	6.38.1
	MS Support	Mtr	2	263	526	6.39.1
	Cubical	sq.cm	34000	0.37	12580	6.40.1
					44,023.00	
	LIFT					
MCCB	125-160A FP MCCB	Nos.	1	7372	7372	6.13.7
MCB	40-63 A TPN	Nos.	6	1936	11616	6.16.6
	5-32 A TPN	Nos.	1	1537	1537	6.16.5
	2A SP MCB	Nos.	4	418	1672	6.16.1
	Indicator Lamp	Nos.	6	442	2652	6.36
	MFM Meter	Nos.	1	8003	8003	6.31
	50/5VA - 400/5A	Nos.	3	483	1449	6.32
	250A Busbar	Mtr	12	2942	35304	6.38.2
	MS Support	Mtr	3	263	789	6.39.1
	Cubical	sq.cm	34000	0.37	12580	6.40.1
					82,974.00	

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Item				Description	Unit	Qty.	Rate	Amount
	PWD SOR Sr.No.	Banglore SOR Sr.No.	CPWD SOR Sr.No.	FIRE ALARM AND DETECTION SYSTEM				
				Supply, installation, testing and commissioning of following as per specifications and Drawing:				
1			17.2.1	Supplying, installation, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics/ LCD display with touch screen or other keypad and minimum 4000 events history log in the non volatile memory (EPROM), power supply unit (230± 5% V, 50 hz), 48 hrs back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system (which is part of the schedule of work under SH: PA System) and shall be complete with all accessories . The panel shall be compatible for IBMS system with open protocol BACnet/ Modbus over IP complete as per specifications.				
			17.2.1.2	Two Loop Panel.	Nos.	1	238907	238907
2			17.2.13	Supplying, installation, testing & commissioning of intelligent addressable duct detector including suitable Photo detector complete with base as required.	Nos.	89	7801	694289
3			17.2.9	Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed temperature thermistor complete with base as required.	Nos.	2	2713	5426
4			17.2.14	Supplying, installation, testing & commissioning of addressable manual call point complete as required.	Nos.	4	3859	15436
5			17.2.6	Supplying, installation, testing & commissioning of intelligent addressable programmable sounder complete as required.	Nos.	4	2638	10552
5.1			17.2.16	Supplying, installation, testing & commissioning of addressable strobe complete as required.	Nos.	4	3354	13416
6				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.				
7	1-2-3			Supplying and erecting UPVC reinforced flexible conduit 31/32 mm in dia. conforming to I.S. with required number of couplings, PVC bushes, check nuts etc. complete.	RM	100	100	10000
8	1-2-2			Supplying and erecting UPVC reinforced flexible conduit 25 mm in dia. conforming to I.S. with required number of couplings, PVC bushes, check nuts etc. complete.	RM	500	70	35000
9				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	800	141	112800
				Total Carried to Summary				11,35,826

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