UTTAR PRADESH
PROJECT CORPORATION LIMITED
(Unit - 19, Lucknow)

DETAILED ESTIMATE FOR PROPOSED CONSTRUCTION OF RAMP FOR OT, OPD & RADIATION ONCOLOGY BLOCK AT KALYAN SINGH SUPER SPECIALITY CANCER INSTITUTE DISTRICT - LUCKNOW (U.P.)

Total Cost Of Project (With GST) Rs. 1176.22 Lacs

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DETAILED ESTIMATE FOR PROPOSED CONSTRUCTION OF RAMP FOR OT, OPD & RADIATION ONCOLOGY BLOCK AT KALYAN SINGH SUPER SPECIALITY CANCER INSTITUTE DISTRICT - LUCKNOW (U.P.)

PROJECT REPORT

1 NAME OF WORK:-

Detailed Estimate For The Proposed Construction of Ramp For OT, OPD & Radiation Oncology Block at Kalyan Singh Super Speciality Cancer Institute at District - Lucknow (U.P.).

2 AUTHORITY:-

Detailed Estimate For The Proposed Construction of Ramp For OT, OPD & Radiation Oncology Block at Kalyan Singh Super Speciality Cancer Institute at District - Lucknow (U.P.), has been prepared vide letter no. -

3 LAND & TOPOGRAPHY OF THE AREA:-

The Proposed Land Is Available For Construction of Ramp For OT, OPD & Radiation Oncology Block at Kalyan Singh Super Speciality Cancer Institute at District - Lucknow (U.P.).

4 PROVISIONS:-

The following provisions have been made in this detail estimate:-

S.N.	Description	Floors	Type of Structure
1	**RAMP O.T. BLOCK**	G.F.+Service Floor+4	RCC Structure
2	**RAMP OPD & EMERGENCY DEPARTMENT**	G.F.+ 3	RCC Structure
3	**RAMP RADIATION ONCOLOGY**	G.F.+ 3	RCC Structure

5 SPECIFICATION:-

All work shall be done according to Specification of U.P.P.W.D., C.P.W.D. or as specified by the client department.

6 RATES:-

Rates are taken from Central Public Works Department's DSR 2023.

7 CONCLUSION:-

With the above remarks Detailed Estimate for Proposed Construction Ramp For OT, OPD & Radiation Oncology Block at Kalyan Singh Super Speciality Cancer Institute at District - Lucknow (U.P.), is amounting to Rs. 1176.22 Lacs is being submitted for Financial Sanction.

विशिष्टियाँ

लोक निर्माण विभाग द्वारा स्वीकृत विशिष्टियों, केन्द्रीय लोक निर्माण विभाग द्वारा स्वीकृत विशिष्टियों एवं विभाग द्वारा दिये गये निर्देशों के अनुरुप कार्य कराया जायेगा।

GOVERNMENT ORDER / GOVERNMENT LETTER

DETAILED ESTIMATE FOR PROPOSED CONSTRUCTION OF RAMP FOR OT, OPD & RADIATION ONCOLOGY BLOCK AT KALYAN SINGH SUPER SPECIALITY CANCER INSTITUTE DISTRICT - LUCKNOW (U.P.)

FORM - 'J '

Sl. No.	Description of Items	Amount (Rs. In Lacs)	
1	Abstract of Cost	959.79	
2	LESS 5% DUE TO WORK DONE BY DEPARTMENT	-47.99	
	Total	**911.80**	**Lacs**
3	Centage charges @ 10% on 911.8	91.18	
4	FOR LABOUR CESS @ 1% on 911.8	9.12	
5	FOR GST @ 18% on 911.8	164.12	
	Grand Total	**1176.22**	**Lacs**

DETAILED ESTIMATE FOR PROPOSED CONSTRUCTION OF RAMP FOR OT, OPD & RADIATION ONCOLOGY BLOCK AT KALYAN SINGH SUPER SPECIALITY CANCER INSTITUTE DISTRICT - LUCKNOW (U.P.)

ABSTRACT OF COST

S.No.	DESCRIPTION OF ITEMS	Qty.	UNIT	Rate	AMOUNT IN LACS
1	**RAMP O.T. BLOCK**				
a	Cost of Civil Works	1	No.	435.35	435.35
b	Cost of Electrical works	1	No.	7.78	7.78
2	**RAMP OPD & EMERGENCY DEPARTMENT**				
a	Cost of Civil Works	1	No.	243.49	243.49
b	Cost of Electrical works	1	No.	5.43	5.43
3	**RAMP RADIATION ONCOLOGY**				
a	Cost of Civil Works	1	No.	243.49	243.49
b	Cost of Electrical works	1	No.	5.43	5.43
	Total I				**940.97**
	Add @2% for Contigency on Total		Lacs		18.82
	G. TOTAL				**959.79**

BILL OF QUANTITY OF PROPOSED O.T. RAMP IN RCC

{Rate as per DSR*.0.735*(115*107)}									
S.N.	**DSR/ DSR**		**DESCRIPTION OF ITEM OF WORK**	**TOTAL QTY**	UNIT	**RATE**	**BARE RATE = RATE *.735**	**BARE RATE*(115/107)**	**AMOUNT Rs**
1A	DSR	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge. All kinds of soil	997.12	Cum	177.50	130.46	140.22	139812.88
1B	DSR	2.26.1	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.	249.28	Cum	125.80	92.46	99.38	24772.48
2	DSR	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	48.14	Cum	2123.75	1560.96	1677.66	80762.71
3	DSR	4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	71.49	Cum	6812.00	5006.82	5381.16	384699.25
4			Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but including the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.						
	DSR	5.33.1.1	All works upto plinth level Concrete of M25 grade with minimum cement content of 330 kg /cum	276.66	Cum	9504.75	6985.99	7508.31	2077248.59
5	DSR	5.33.2.1	All works above plinth level upto floor V level Concrete of M25 grade with minimum cement content of 330 kg /cum	673.60	Cum	9860.40	7247.39	7789.26	5246842.33
6	5.9	DSR 2021	Centering and shuttering including strutting, propping etc. and removal of form for :						
	5.9.1		Foundations, footings, bases of columns, etc. for mass concrete	89.80	sqm	392.15	288.23	309.78	27818.26
	5.9.3		Suspended floors, roofs, landings, balconies and access platform	1783.88	sqm	927.25	681.53	732.48	1306663.86
	5.9.5		Lintels, beams, plinth beams, girders, bressumers and cantilevers	2349.98	sqm	736.40	541.25	581.72	1367034.10

	5.9.6		Columns, Pillars, Piers, Abutments, Posts and Struts	1691.20	sqm	961.30	706.56	759.38	1284266.97
	5.9.16		Edges of slabs and breaks in floors and walls Under 20 cm wide	757.75	Mtr	208.55	153.28	164.74	124835.34
7	5.11.1	DSR	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured). Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	1529.04	sqm	384.30	282.46	303.58	464184.50
8	6.4.2	DSR	Brick Work with common burnt clay (non modular) bricks of class - 150 in superstructure above plinth level up to floor V level in all shapes and sizes in: Cement mortar 1:6 (1 cement : 6 coarse sand)						
			G.F.	29.88	Cum	9105.95	6692.87	7193.27	214935.06
			SERVICE FLOOR	29.88	Cum	9105.95	6692.87	7193.27	214935.06
			FIRST FLOOR	29.88	Cum	9105.95	6692.87	7193.27	214935.06
			SECOND FLOOR	29.88	Cum	9105.95	6692.87	7193.27	214935.06
			THIRD FLOOR	29.88	Cum	9105.95	6692.87	7193.27	214935.06
			FOURTH FLOOR	29.88	Cum	9105.95	6692.87	7193.27	214935.06
			TERRACE FLOOR	29.88	Cum	9105.95	6692.87	7193.27	214935.06
9	6.13.2	DSR	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.						
			G.F.	114.04	Sqm	1123.8	825.99	887.75	101238.95
			SERVICE FLOOR	114.04	Sqm	1123.8	825.99	887.75	101238.95
			FIRST FLOOR	114.04	Sqm	1123.8	825.99	887.75	101238.95
			SECOND FLOOR	114.04	Sqm	1123.8	825.99	887.75	101238.95
			THIRD FLOOR	114.04	Sqm	1123.8	825.99	887.75	101238.95
			FOURTH FLOOR	114.04	Sqm	1123.8	825.99	887.75	101238.95
			TERRACE FLOOR	114.04	Sqm	1123.8	825.99	887.75	101238.95
10	6.5	DSR	Extra for brick work / AAC block masonry / Tile brick masonry in superstructure above floor V level, for each four floors or part thereof by mechanical means.						
			5th Floor To Eigth Floor	59.76	Cum	169.45	124.55	133.86	7999.33
11	6.14	DSR	Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.						
			5th Floor To Eigth Floor	0.00	Sqm	15.00	11.03	11.85	0.00

12		PAR PWD	Providing and injecting chemical emulsion for preconstructional antitermite treatment and creating a chemical barrier under and alround the coloumn pitswall tench basement excavation top surface if plinth filling junction of wall and floor along the external perimer of binding expansion joints,surrounding of pipes and conduits etc.complete(plinth area of the building at ground floor only shall be measured as per I.S.6313(Part ll 1981) aldrine emulsifiable concrete or any other approved material such as hepthachlor or chlordance will be used.The rate of application of chemical emulsion shall be as follows:- (1) treatment for masonary & foundation 5 litres per sq.m. (2) back fill in immediate contract with foundation 7.5 litre per sq.m (3)treatment of top surface of plinth filling 5 liters per sq.m. (4) treatment of soil along external parameter of building 7.50 lire per sq.m.	320.89	Sqm			230.00	73804.70
13	DSR 2019	504	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	1486.47	Qtl	10785	7926.98	8519.65	12664198.23
14	MR		Providing and fixing SS sliding door bolts ISI marked anodised transparent or dyed to required colour or shade with nuts and screws etc. complete : 250x16 mm.	6.00	Nos			2044.00	12264.00
15	MR		Providing and fixing SS tower bolts ISI marked anodised transparent or dyed to required colour or shade with necessary screws etc. complete : 250x10 mm.	12.00	Nos.			450.00	5400.00
16	9.165.1	DSR 2021	Providing and fixing SS handles ISI marked anodised transparent or dyed to required colour or shade with necessary screws etc. complete :125 mm.	24.00	Nos.	119.20	87.61	94.16	2259.90
17	21.1	DSR	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately)						
A	21.1.1.2	DSR	Powder coated aluminium (minimum thickness of powder coating 50 micron)	550.80	KG	530.9	390.21	419.39	230997.91

B	21.1.2.2	DSR	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	459.00	KG	634.45	466.32	501.19	230044.31
C	21.3.2	DSR	Providing and fixing glazing in aluminium door, window, ventilator etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): 21.3.1 With float glass panes of 5.0 mm thickness shutters and partitions etc. with EPDM rubber / neoprene gasket.	18.36	SQM	1505.23	1106.34	1189.06	21831.17
D	21.2.2	DSR	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade 1 Type ll, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge Pre-laminated particle board with decorative lamination on both sides	22.95	SQM	1115.4	819.82	881.11	20221.56
18	21.4.1	DSR 2021	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS 6315 having brand logo embossed on the body/plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide palte etc. complete as per the direction of Engineer-in-charge.						
			With stainless steel cover plate minimum 1.25 mm thickness.						
			Floor Spring	12	No	2823.85	2075.53	2230.71	26768.51
19	10.28	DSR	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accesDSRies & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accesDSRies such as nuts, bolts, fasteners etc.).	16978.50	K.G.	772.40	567.71	610.16	10359599.97

20	13.5.2	DSR	15 mm thick plaster with cement mortar in consisting of 1:6 cement. On rough surface of wall.	1083.60	sqm	395.35	290.58	312.31	338416.98
21	13.22	DSR	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.						
	13.22*1		10m to 13m	75.78	sqm	87.10	64.02	68.80	5214.04
	13.22*2		13m to 16m	43.30	sqm	174.20	128.04	137.61	5958.51
	13.22*3		16m to 19m	119.08	sqm	348.40	256.07	275.22	32773.16
	13.22*4		19m to 22m	119.08	sqm	696.80	512.15	550.44	65546.33
	13.22*5		19m to 22m	16.39	sqm	1393.60	1024.30	1100.88	18043.40
	13.22*6		19m to 22m	104.74	sqm	2787.20	2048.59	2201.76	230612.11
22	13.4.2	DSR	12 mm thick plaster with cement mortar in consisting of 1:6 cement and approved coarse sand. On smooth surface of wall.	1000.23	sqm	343.65	252.58	271.47	271529.88
23	11.20.2	DSR	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). Medium shade pigment using 50% white cement 50% Grey cement	1472.53	sqm	1328.35	976.34	1049.33	1545172.23
24	11.3.1	DSR	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	309.37	sqm	545.00	400.58	430.52	133191.37
25	11.56.1	DSR	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.	209.42	sqm	4481.30	3293.76	3540.02	741343.40
26	22.7	DSR	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:						

			(a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.						
			c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test."All above operations to be done in order and as directed and specified by the Engineer-in-Charge :						
			With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	254.84	sqm	1684.60	1238.18	1330.76	339129.68
27	13.41.1	DSR	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer	3953.84	sqm	185.65	136.45	146.65	579849.71
28	13.47.1	DSR	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade : New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	1083.60	sqm	171.10	125.76	135.16	146460.46
29	13.80	DSR	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	5037.44	sqm	156.05	114.70	123.27	620976.35

30	6.44	DSR	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	108.25	metre	59.45	43.70	46.96	5083.71
31	4.17	DSR	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth	97.43	sqm	749.30	550.74	591.91	57669.98
32	5.46.1	DSR	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arragement support plates asper ASTM B221-02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions.						
			The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall confirm to ASTM 6063). **Roof Joint of 150 mm gap**	**26.95**	Mtr	6699.85	4924.39	5292.57	142634.72
								TOTAL	**43534520.23**
					SAY RS.			**435.35**	**LACS**

PROPOSED O.T. RAMP
DETAIL OF MESUREMENT

S. N.	ITEM	NO.	L	B	H	Qty.	UNIT
1	**EARTH WORK**						
A	**Earth work in excavation in foundation**						
	RAFT	1	48.600	9.600	1.500	699.84	
	F-1	2	4.000	4.000	1.500	48.00	
					Total A	**747.84**	**Cum.**
B	**For Additional lift beyond 1.50 mtr.**						
	RAFT	1	48.600	9.600	0.500	233.28	
	F-1	2	4.000	4.000	0.500	16.00	
					Total	**249.28**	**Cum.**
					Total (A)	**997.12**	**Cum.**
	(a) Hence Earth work in filling by available earth						
	Q= Same as Total Qty of Earth for Excavation					**997.12**	**Cum.**
	Earth work in Filling						
	Under floor	1	45.765	6.760	0.600	185.62	
		1	3.460	3.330	0.600	6.91	
	In Foundation (Total Excavation)					997.12	
	Less C.C. 1:4:8 in foundation					-71.49	
	RCC in foundation					-234.59	
	Less B/W in foundation					0.00	
						697.95	**Cum.**
					G.Total	**697.95**	**Cum.**
	(b) Hence Earth work in filling by Carted earth						
	Q= Same as Total Qty of Earth Difference					**0.000**	**Cum.**
2	**Sand Filling**						
a	under floor fine sand	1	45.765	6.760	0.150	46.410	
		1	3.460	3.330	0.150	1.730	
						48.140	**Cum.**
	CONCRETE						
3	**P/L P.C.C. (1:4:8) in Foundation & Under Floor**						
	a) Under foundation						
	RAFT	1	47.100	8.100	0.100	38.15	
	F-1	2	2.500	2.500	0.100	1.25	
					Total	**39.40**	**Cum.**

	(b) Under floor						
	FLOOR AREA	1	45.765	6.760	0.100	30.94	
		1	3.460	3.330	0.100	1.15	
					Total	**32.09**	**Cum.**
					G. Total	**71.49**	**Cum.**
4	**R.C.C. WORK UPTO PLINTH**						
A	**FOUNDATION**						
	RAFT	1	47.000	8.000	0.600	225.60	
		28	0.800	0.550	0.250	3.08	
	F-1	2	2.400	2.400	0.500	5.76	
		2	0.550	0.550	0.250	0.15	
					Total	**234.590**	**Cum.**
B	**COLUMN UPTO PLINTH**						
	C-1	2	0.350	0.350	1.750	0.43	
	C-2	20	0.600	0.350	1.750	7.35	
	C-3	8	0.600	0.350	1.750	2.94	
					Total	**10.72**	**Cum.**
C	**PLINTH BEAM**						
	PB-1	1	3.625	0.250	0.450	0.41	
	PB-2	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	PB-3	2	39.160	0.300	0.450	10.57	
	PB-4	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	PB-5	1	10.090	0.250	0.450	1.14	
	PB-6	1	10.090	0.250	0.450	1.14	
	PB-7	12	3.080	0.250	0.450	4.16	
	PB-8	1	6.760	0.250	0.450	0.76	
	PB-9	1	6.760	0.300	0.450	0.91	
					Total	**31.35**	**Cum.**
		TOTAL (A+B+C)				**276.66**	**Cum.**
5	**RCC ABOVE PLINTH**						
	G.F.						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	
	SERVICE FLOOR						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	
	F.F.						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	
	3.F.						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	

	S.F.						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	
	4.F.						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	
	TERRACE						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	
					Total	**267.61**	**Cum.**
B	**COLUMN ABOVE PLINTH**						
	G.F.						
	C-1	2	0.350	0.350	4.200	1.03	
	C-2	20	0.600	0.350	4.200	17.64	
	C-3	8	0.600	0.350	4.200	7.06	
					Total	**25.73**	**Cum.**
	SERVICE FLOOR						
	C-1	2	0.350	0.350	3.300	0.81	
	C-2	20	0.600	0.350	3.300	13.86	
	C-3	8	0.600	0.350	3.300	5.54	
					Total	**20.21**	**Cum.**
	F.F.						
	C-1	2	0.350	0.350	4.200	1.03	
	C-2	20	0.600	0.350	4.200	17.64	
	C-3	8	0.600	0.350	4.200	7.06	
					Total	**25.73**	**Cum.**
	S.F.						
	C-1	2	0.350	0.350	4.200	1.03	
	C-2	20	0.600	0.350	4.200	17.64	
	C-3	8	0.600	0.350	4.200	7.06	
					Total	**25.73**	**Cum.**
	T.F.						
	C-1	2	0.350	0.350	4.200	1.03	
	C-2	20	0.600	0.350	4.200	17.64	
	C-3	8	0.600	0.350	4.200	7.06	
					Total	**25.73**	**Cum.**
	4TH FLOOR						
	C-1	2	0.350	0.350	4.200	1.03	
	C-2	20	0.600	0.350	4.200	17.64	
	C-3	8	0.600	0.350	4.200	7.06	
					Total	**25.73**	**Cum.**
	TERRACE FLOOR						
	C-1	2	0.350	0.350	4.150	1.02	
	C-2	20	0.600	0.350	4.150	17.43	
	C-3	8	0.600	0.350	4.150	6.97	
					Total	**25.42**	**Cum.**
				GRAND TOTAL		**174.28**	**Cum.**

C	**BEAM**						
	G.F.						
	B-101	1	3.625	0.250	0.450	0.41	
	B-102	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-103	2	39.160	0.300	0.450	10.57	
	B-104	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-105	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-106	1	10.090	0.250	0.450	1.14	
	B-107	12	3.080	0.250	0.450	4.16	
	B-108	1	6.760	0.250	0.450	0.76	
	B-109	1	6.760	0.300	0.600	1.22	
					Total	**32.34**	**Cum.**
	SERVICE F.						
	B-101	1	3.625	0.250	0.450	0.41	
	B-102	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-103	2	39.160	0.300	0.450	10.57	
	B-104	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-105	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-106	1	10.090	0.250	0.450	1.14	
	B-107	12	3.080	0.250	0.450	4.16	
	B-108	1	6.760	0.250	0.450	0.76	
	B-109	1	6.760	0.300	0.600	1.22	
					Total	**32.34**	**Cum.**
	F.F.						
	B-101	1	3.625	0.250	0.450	0.41	
	B-102	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-103	2	39.160	0.300	0.450	10.57	
	B-104	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-105	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-106	1	10.090	0.250	0.450	1.14	
	B-107	12	3.080	0.250	0.450	4.16	
	B-108	1	6.760	0.250	0.450	0.76	
	B-109	1	6.760	0.300	0.600	1.22	
					Total	**32.34**	**Cum.**
	2ND F.						
	B-101	1	3.625	0.250	0.450	0.41	
	B-102	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-103	2	39.160	0.300	0.450	10.57	
	B-104	1	3.625	0.250	0.450	0.41	

		1	42.390	0.300	0.450	5.72	
	B-105	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-106	1	10.090	0.250	0.450	1.14	
	B-107	12	3.080	0.250	0.450	4.16	
	B-108	1	6.760	0.250	0.450	0.76	
	B-109	1	6.760	0.300	0.600	1.22	
					Total	**32.34**	**Cum.**
	3RD F.						
	B-101	1	3.625	0.250	0.450	0.41	
	B-102	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-103	2	39.160	0.300	0.450	10.57	
	B-104	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-105	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-106	1	10.090	0.250	0.450	1.14	
	B-107	12	3.080	0.250	0.450	4.16	
	B-108	1	6.760	0.250	0.450	0.76	
	B-109	1	6.760	0.300	0.600	1.22	
					Total	**32.34**	**Cum.**
	4TH F.						
	B-101	1	3.625	0.250	0.450	0.41	
	B-102	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-103	2	39.160	0.300	0.450	10.57	
	B-104	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-105	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-106	1	10.090	0.250	0.450	1.14	
	B-107	12	3.080	0.250	0.450	4.16	
	B-108	1	6.760	0.250	0.450	0.76	
	B-109	1	6.760	0.300	0.600	1.22	
	BB-1	1	51.530	0.230	0.450	5.33	
					Total	**37.67**	**Cum.**
	TERRACE FLOOR						
	B-201	1	3.625	0.250	0.450	0.41	
	B-202	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-203	2	39.160	0.300	0.450	10.57	
	B-204	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-205	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-206	1	10.090	0.250	0.450	1.14	
	B-207	12	3.080	0.250	0.450	4.16	
	B-208	1	6.760	0.250	0.450	0.76	
	B-209	1	6.760	0.300	0.600	1.22	

					Total	**32.34**	**Cum.**
			GRAND TOTAL			**231.71**	**Cum.**
			OVERALL TOTAL			**673.600**	**Cum.**
6	Centering and shuttering including strutting, propping etc. and removal of form for :						
A	**FOUNDATION**						
	RAFT	1	94		0.600	56.400	
	0	28	1.6		0.250	11.200	
	F-1	2	18.32		0.500	18.320	
	0	2	7.76		0.250	3.880	
					Total	**89.800**	**Sqm**
B	**SLAB**						
	G.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	SERVICE FLOOR						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	F.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	3.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	S.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	4.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	TERRACE						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
					Total	**1783.88**	**Sqm**
C	**Lintels, beams, plinth beams, girders, bressumers and cantilevers**						
	PB-1	1	3.625		1.150	4.17	
	PB-2	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	

	PB-3	1	39.160		1.200	46.99	
	PB-4	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	
	PB-5	1	10.090		1.150	11.60	
	PB-6	1	10.090		1.150	11.60	
	PB-7	1	3.080		1.150	3.54	
	PB-8	1	6.760		1.150	7.77	
	PB-9	1	6.760		1.200	8.11	
	G.F.						
	B-101	1	3.625		1.150	4.17	
	B-102	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	
	B-103	2	39.160		1.200	93.98	
	B-104	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	
	B-105	2	3.580		1.150	8.23	
		1	6.760		1.450	9.80	
	B-106	1	10.090		1.150	11.60	
	B-107	12	3.080		1.150	42.50	
	B-108	1	6.760		1.150	7.77	
	B-109	1	6.760		1.500	10.14	
	SERVICE F.						
	B-101	1	3.625		1.150	4.17	
	B-102	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	
	B-103	2	39.160		1.200	93.98	
	B-104	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	
	B-105	2	3.580		1.150	8.23	
		1	6.760		1.450	9.80	
	B-106	1	10.090		1.150	11.60	
	B-107	12	3.080		1.150	42.50	
	B-108	1	6.760		1.150	7.77	
	B-109	1	6.760		1.500	10.14	
	F.F.						
	B-101	1	3.625		1.150	4.17	
	B-102	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	
	B-103	2	39.160		1.200	93.98	
	B-104	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	
	B-105	2	3.580		1.150	8.23	
		1	6.760		1.450	9.80	
	B-106	1	10.090		1.150	11.60	
	B-107	12	3.080		1.150	42.50	
	B-108	1	6.760		1.150	7.77	
	B-109	1	6.760		1.500	10.14	
	2ND F.						
	B-101	1	3.625		1.150	4.17	
	B-102	1	3.625		1.150	4.17	

		1	42.390		1.200	50.87	
	B-103	2	39.160		1.200	93.98	
	B-104	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	
	B-105	2	3.580		1.150	8.23	
		1	6.760		1.450	9.80	
	B-106	1	10.090		1.150	11.60	
	B-107	12	3.080		1.150	42.50	
	B-108	1	6.760		1.150	7.77	
	B-109	1	6.760		1.500	10.14	
	3RD F.						
	B-101	1	3.625		1.150	4.17	
	B-102	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	
	B-103	2	39.160		1.200	93.98	
	B-104	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	
	B-105	2	3.580		1.150	8.23	
		1	6.760		1.450	9.80	
	B-106	1	10.090		1.150	11.60	
	B-107	12	3.080		1.150	42.50	
	B-108	1	6.760		1.150	7.77	
	B-109	1	6.760		1.500	10.14	
	4TH F.						
	B-101	1	3.625		1.150	4.17	
	B-102	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	
	B-103	2	39.160		1.200	93.98	
	B-104	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	
	B-105	2	3.580		1.150	8.23	
		1	6.760		1.450	9.80	
	B-106	1	10.090		1.150	11.60	
	B-107	12	3.080		1.150	42.50	
	B-108	1	6.760		1.150	7.77	
	B-109	1	6.760		1.500	10.14	
	BB-1	1	51.530		1.130	58.23	
	TERRACE FLOOR						
	B-201	1	3.625		1.150	4.17	
	B-202	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	
	B-203	2	39.160		1.200	93.98	
	B-204	1	3.625		1.150	4.17	
		1	42.390		1.200	50.87	
	B-205	2	3.580		1.150	8.23	
		1	6.760		1.450	9.80	
	B-206	1	10.090		1.150	11.60	
	B-207	12	3.080		1.150	42.50	
	B-208	1	6.760		1.150	7.77	
	B-209	1	6.760		1.500	10.14	

					Total	**2349.98**	**Sqm**
F	**COLUMN**						
	COLUMN UPTO PLINTH						
	C-1	2	1.400		1.750	4.90	
	C-2	20	1.900		1.750	66.50	
	C-3	8	1.900		1.750	26.60	
	COLUMN ABOVE PLINTH						
	G.F.						
	C-1	2	1.400		4.200	11.76	
	C-2	20	1.900		4.200	159.60	
	C-3	8	1.900		4.200	63.84	
	SERVICE FLOOR						
	C-1	2	1.400		3.300	9.24	
	C-2	20	1.900		3.300	125.40	
	C-3	8	1.900		3.300	50.16	
	F.F.						
	C-1	2	1.400		4.200	11.76	
	C-2	20	1.900		4.200	159.60	
	C-3	8	1.900		4.200	63.84	
	S.F.						
	C-1	2	1.400		4.200	11.76	
	C-2	20	1.900		4.200	159.60	
	C-3	8	1.900		4.200	63.84	
	T.F.						
	C-1	2	1.400		4.200	11.76	
	C-2	20	1.900		4.200	159.60	
	C-3	8	1.900		4.200	63.84	
	4TH FLOOR						
	C-1	2	1.400		4.200	11.76	
	C-2	20	1.900		4.200	159.60	
	C-3	8	1.900		4.200	63.84	
	TERRACE FLOOR						
	C-1	2	1.400		4.150	11.62	
	C-2	20	1.900		4.150	157.70	
	C-3	8	1.900		4.150	63.08	
					Total	**1691.20**	**Sqm**
H	Edges of slabs and breaks in floors and walls Under 20 cm wide						
	GROUND FLOOR						
	OUTER WALL	1	108.250			108.25	
	SERVICE FLOOR						
	OUTER WALL	1	108.250			108.25	
	FIRST FLOOR						
	OUTER WALL	1	108.250			108.25	
	SECOND FLOOR						
	OUTER WALL	1	108.250			108.25	
	THIRD FLOOR						
	OUTER WALL	1	108.250			108.25	
	FOURTH FLOOR						

	OUTER WALL	1	108.250			108.25	
	TERRACE						
	OUTER WALL	1	108.250			108.25	
					Total	**757.75**	Mtr
7	**Extra for additional height in centering, shuttering**						
	G.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	F.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	3.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	S.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	4.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	TERRACE						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
					Total	**1529.04**	**Sqm**
8	**Brick work in super structure (1:6) 230 mm thick**						
	G.F.						
	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
	SERVICE FLOOR						
	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
	F.F.						
	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
	S.F.						
	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
	T.F.						
	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
	4F						

	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
	TERRACE						
	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
					G.Total	**209.160**	**Cum.**
9	Extra for R.C.C./ B.M.C/ R.M.C. work above floor V level for each four floors or part thereof.						
A	**BRICK WORK 230 MM**						
	Fifth floor	1			59.760	59.760	
		TOTAL				**59.760**	**Cum**
10	**P/L Chemical emulsion for antitermite**						
a	under floor fine sand	1	45.765	6.760		309.370	
		1	3.460	3.330		11.520	
					Total	**320.890**	**Sqm**
11	**Reinforcement**						
	UP TO F.F						
	Foundation	1	234.590	1.50%	78.500	276.230	Qtl
	COLUMN	1	159.580	3.50%	78.500	438.450	Qtl
	Slab	1	267.610	1.00%	78.500	210.070	Qtl
	Plinth Beam	1	31.350	2.50%	78.500	61.520	Qtl
	BEAM	1	231.710	2.75%	78.500	500.200	Qtl
					Total	**1486.470**	**Qtl**
	DOOR WINDOW WORK						
	P/F steel / wooden chaukhats in position						
12	**P/F SS sliding door bolt/ lock**						
	Q= 250 mm				**Total**	**6.000**	**Nos.**
13	**P/F SS tower bolt**						
	Q= 250 mm				**Total**	**12.000**	**Nos.**
14	**P/F SS handle**						
	Q=				**Total**	**24.000**	**Nos.**
15	**Aluminium DOOR/window frame with shutter**						
A	**FIXED PORTION**						
	DW	6	3.000		2.550	45.90	
					Total	**45.90**	**Sqm.**
	K.G. /SQM	45.900	@	12.000		550.80	
					G.Total	**550.80**	**KG**
B	**SHUTTERS**						

	DW	6	3.000		2.550	45.90	
					Total	**45.90**	**Sqm.**
	K.G. /SQM	45.900	@	10.000		459.00	
					G.Total	**459.00**	**KG**
C	**GLASS PANS**						
	DW	6	3.000		2.550	45.90	
					TOTAL	**45.90**	**Sqm.**
	0.40 Sqm @ per Sqm	45.900	@	0.400		18.36	
					TOTAL	**18.36**	**Sqm.**
D	**PARTICLE BOARD**						
	Door						
	DW	6	3.000		2.550	45.90	
					TOTAL	**45.90**	**Sqm.**
	0.50 Sqm @ per Sqm	45.900	@	0.500		22.95	
					TOTAL	**22.95**	**Sqm.**
16	**Providing and fixing double action hydraulic floor spring**						
	DW	6	2.000			12.00	
					Total	**12.00**	**each**
17	**P/F S.S. RAILING**						
	RAMP	6	106.730		1.000	640.38	
	RAMP	6	81.920		1.000	491.52	
					Total	**1131.90**	**SQM.**
	15 K.G. /SQM	1131.90	@	15.000		16978.500	
					TOTAL	**16978.500**	**KG**
	FINISHING						
18	**15 mm thick cement plaster 1:6 on rough surface of wall.**						
	G.F.						
	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	SERVICE FLOOR						
	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	F.F.						
	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	S.F.						
	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	T.F.						
	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	4F						

	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	TERRACE						
	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	GRAND TOTAL					**1083.60**	**Sqm.**
19	**Extra for plastering exterior walls of height more than 10 m from ground level**						
*	**10m to 13m**						
	OUTER WALL						
	AS PER P.L.	1	108.250		0.700	75.78	
					Total	**75.78**	**Sqm.**
*	**13m to 16m**						
	OUTER WALL						
	AS PER P.L.	1	108.250		0.400	43.30	
					Total	**43.30**	**Sqm.**
*	**16m to 19m**						
	OUTER WALL						
	AS PER P.L.	1	108.250		1.100	119.08	
					Total	**119.08**	**Sqm.**
*	**19m to 22m**						
	OUTER WALL						
	AS PER P.L.	1	108.250		1.100	119.08	
					Total	**119.08**	**Sqm.**
*	**22m to 25m**						
	OUTER WALL						
	AS PER P.L.	1	109.250		0.150	16.39	
					Total	**16.39**	**Sqm.**
*	**25m to 27m**						
	OUTER WALL						
	AS PER P.L.	1	110.250		0.950	104.74	
					Total	**104.74**	**Sqm.**
20	**12 mm cement plaster 1:6 on rough surface of wall.**						
	G.F.						
	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	SERVICE FLOOR						
	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	F.F.						
	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	S.F.						
	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	T.F.						

	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	4F						
	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	TERRACE						
	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	GRAND TOTAL					**909.300**	**Sqm.**
	ADD SKIRTING 10%	1	909.300	0.100		90.930	Sqm.
	OVERALL TOTAL					**1000.230**	**Sqm.**
21	**PRECASTED CEMENT CONCRETE CHEQUERED TILES**						
	G.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	SERVICE FLOOR						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	F.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	3.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	S.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	4.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	GRAND TOTAL					**1338.660**	**Sqm.**
	ADD SKIRTING 10%	1	1338.660	0.100		133.866	Sqm.
	OVERALL TOTAL					**1472.526**	**Sqm.**
22	**GRANITE FLOORING**						
	G.F.						
	VERANDHA	1	3.145	10.090		31.73	
	SERVICE FLOOR						
	VERANDHA	1	3.145	10.090		31.73	
	F.F.						
	VERANDHA	1	3.145	10.090		31.73	
	S.F.						
	VERANDHA	1	3.145	10.090		31.73	
	3.F.						
	VERANDHA	1	3.145	10.090		31.73	
	4.F.						

	VERANDHA	1	3.145	10.090		31.73	
					Total	**190.38**	**Sqm.**
	ADD SKIRTING 10%	1	190.380	0.100		19.038	Sqm.
	OVERALL TOTAL					**209.418**	**Sqm.**
23	**CC FLOORING**						
	G.F.						
	BELOW RAMP	1	45.765	6.760		309.37	
					Total	**309.37**	**Sqm.**
24	**WATER PROOFING**						
	TERRACE						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
		TOTAL				**254.840**	**Sqm.**
25	**Wall painting with oil bound distemper**						
	12 mm plaster area					1083.60	
	RAMP	12	39.160	2.550		1198.30	
	LANDING	6	3.460	6.760		140.34	
	VERANDHA	6	3.145	10.090		190.40	
	COLUMN	2	1.400		23.950	67.06	
		20	1.900		23.950	910.10	
		8	1.900		23.950	364.04	
					Total	**3953.840**	**Sqm.**
26	**Finishing wall with Acrylic Smooth paint**						
	BELOW PLINTH	1				1083.60	
					Total	**1083.600**	**Sqm.**
27	**BIRALA PUTTY**						
	Emulsion paint & Exterior paint					5037.440	
					Total	**5037.44**	**Sqm.**
28	Brick edging 7cm wide 11.4cm. deep to plinth protection with bricks of class designation 75 including grouting with cement mortar 1:4 (1 cement : 4 fine sand)	1	108.250			**108.250**	**R.Mtr.**
29	**Plinth Protection**						
	APRON	1	108.250	0.900		97.43	
					Total	**97.43**	**Sqm.**
30	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations						

	HORIZONTAL						
	GROUND FLOOR	1	3.850			3.850	
	SERVICE FLOOR	1	3.850			3.850	
	FIRST FLOOR	1	3.850			3.850	
	SECOND FLOOR	1	3.850			3.850	
	THIRD FLOOR	1	3.850			3.850	
	FOURTH FLOOR	1	3.850			3.850	
	TERRACE FLOOR	1	3.850			3.850	
					Total	**26.950**	**Mtr.**

BILL OF QUANTITY OF PROPOSED RAMP AT OPD & EMERGENCY DEPARTMENT IN RCC

{Rate as per DSR*.0.735*(115*107)}									
S.N.	**DSR/ DSR**		**DESCRIPTION OF ITEM OF WORK**	**TOTAL QTY**	UNIT	**RATE**	**BARE RATE = RATE *.735**	**BARE RATE*(115/107)**	**AMOUNT Rs**
1A	DSR	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge. All kinds of soil	1066.95	Cum	177.50	130.46	140.22	149604.21
2	DSR	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	48.14	Cum	2123.75	1560.96	1677.66	80762.71
3	DSR	4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	62.34	Cum	6812.00	5006.82	5381.16	335461.62
4			Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but including the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.						
	DSR	5.33.1.1	All works upto plinth level Concrete of M25 grade with minimum cement content of 330 kg /cum	189.53	Cum	9504.75	6985.99	7508.31	1423049.68
5	DSR	5.33.2.1	All works above plinth level upto floor V level Concrete of M25 grade with minimum cement content of 330 kg /cum	390.22	Cum	9860.40	7247.39	7789.26	3039523.18
6	5.9	DSR 2021	Centering and shuttering including strutting, propping etc. and removal of form for :						
	5.9.1		Foundations, footings, bases of columns, etc. for mass concrete	156.34	sqm	392.15	288.23	309.78	48431.03
	5.9.3		Suspended floors, roofs, landings, balconies and access platform	1019.36	sqm	927.25	681.53	732.48	746665.06
	5.9.5		Lintels, beams, plinth beams, girders, bressumers and cantilevers	1455.17	sqm	736.40	541.25	581.72	846503.80
	5.9.6		Columns, Pillars, Piers, Abutments, Posts and Struts	1036.00	sqm	961.30	706.56	759.38	786719.83
	5.9.16		Edges of slabs and breaks in floors and walls Under 20 cm wide	433.00	Mtr	208.55	153.28	164.74	71334.48

7	5.11.1	DSR	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured). Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	1019.36	sqm	384.30	282.46	303.58	309456.33
8	6.4.2	DSR	Brick Work with common burnt clay (non modular) bricks of class - 150 in superstructure above plinth level up to floor V level in all shapes and sizes in: Cement mortar 1:6 (1 cement : 6 coarse sand)						
			G.F.	29.88	Cum	9105.95	6692.87	7193.27	214935.06
			FIRST FLOOR	29.88	Cum	9105.95	6692.87	7193.27	214935.06
			SECOND FLOOR	29.88	Cum	9105.95	6692.87	7193.27	214935.06
			TERRACE FLOOR	29.88	Cum	9105.95	6692.87	7193.27	214935.06
9	6.13.2	DSR	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.						
			G.F.	114.04	Sqm	1123.8	825.99	887.75	101238.95
			FIRST FLOOR	114.04	Sqm	1123.8	825.99	887.75	101238.95
			SECOND FLOOR	114.04	Sqm	1123.8	825.99	887.75	101238.95
			TERRACE FLOOR	114.04	Sqm	1123.8	825.99	887.75	101238.95
10		PAR PWD	Providing and injecting chemical emulsion for preconstructional antitermite treatment and creating a chemical barrier under and alround the coloumn pitswall tench basement excavation top surface if plinth filling junction of wall and floor along the external perimer of binding expansion joints,surrounding of pipes and conduits etc.complete(plinth area of the building at ground floor only shall be measured as per I.S.6313(Part ll 1981) aldrine emulsifiable concrete or any other approved material such as hepthachlor or chlordance will be used.The rate of application of chemical emulsion shall be as follows:- (1) treatment for masonary & foundation 5 litres per sq.m. (2) back fill in immediate contract with foundation 7.5 litre per sq.m (3)treatment of top surface of plinth filling 5 liters per sq.m. (4) treatment of soil along external parameter of building 7.50 lire per sq.m.	320.89	Sqm			230.00	73804.70
11	DSR 2019	504	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	789.54	Qtl	10785	7926.98	8519.65	6726601.32
12	MR		Providing and fixing SS sliding door bolts ISI marked anodised transparent or dyed to required colour or shade with nuts and screws etc. complete : 250x16 mm.	3.00	Nos			2044.00	6132.00

13	MR		Providing and fixing SS tower bolts ISI marked anodised transparent or dyed to required colour or shade with necessary screws etc. complete : 250x10 mm.	6.00	Nos.			450.00	2700.00
14	9.165.1	DSR 2021	Providing and fixing SS handles ISI marked anodised transparent or dyed to required colour or shade with necessary screws etc. complete :125 mm.	12.00	Nos.	119.20	87.61	94.16	1129.95
15	21.1	DSR	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately)						
A	21.1.1.2	DSR	Powder coated aluminium (minimum thickness of powder coating 50 micron)	275.40	KG	530.9	390.21	419.39	115498.96
B	21.1.2.2	DSR	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	229.50	KG	634.45	466.32	501.19	115022.15
C	21.3.2	DSR	Providing and fixing glazing in aluminium door, window, ventilator etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): 21.3.1 With float glass panes of 5.0 mm thickness shutters and partitions etc. with EPDM rubber / neoprene gasket.	9.18	SQM	1505.23	1106.34	1189.06	10915.58
D	21.2.2	DSR	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade l Type ll, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge Pre-laminated particle board with decorative lamination on both sides	11.48	SQM	1115.4	819.82	881.11	10110.78

16	21.4.1	DSR 2021	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS 6315 having brand logo embossed on the body/plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide palte etc. complete as per the direction of Engineer-in-charge.						
			With stainless steel cover plate minimum 1.25 mm thickness.						
			Floor Spring	6	No	2823.85	2075.53	2230.71	13384.26
17	10.28	DSR	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accesDSRies & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accesDSRies such as nuts, bolts, fasteners etc.).	8489.25	K.G.	772.40	567.71	610.16	5179799.99
18	13.5.2	DSR	15 mm thick plaster with cement mortar in consisting of 1:6 cement. On rough surface of wall.	619.20	sqm	395.35	290.58	312.31	193381.13
19	13.22	DSR	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.						
	13.22*1		10m to 13m	324.75	sqm	87.10	64.02	68.80	22344.40
	13.22*2		13m to 16m	324.75	sqm	174.20	128.04	137.61	44688.80
	13.22*3		16m to 19m	146.14	sqm	348.40	256.07	275.22	40220.61
20	13.4.2	DSR	12 mm thick plaster with cement mortar in consisting of 1:6 cement and approved coarse sand. On smooth surface of wall.	571.56	sqm	343.65	252.58	271.47	155159.93
21	11.20.2	DSR	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). Medium shade pigment using 50% white cement 50% Grey cement	736.26	sqm	1328.35	976.34	1049.33	772586.11

22	11.3.1	DSR	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	309.37	sqm	545.00	400.58	430.52	133191.37
23	11.56.1	DSR	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.	104.71	sqm	4481.30	3293.76	3540.02	370671.70
24	22.7	DSR	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:						
			(a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.						

			c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test."All above operations to be done in order and as directed and specified by the Engineer-in-Charge :						
			With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	254.84	sqm	1684.60	1238.18	1330.76	339129.68
25	13.41.1	DSR	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer	2584.95	sqm	185.65	136.45	146.65	379095.39
26	13.47.1	DSR	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade : New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	619.20	sqm	171.10	125.76	135.16	83691.69
27	13.80	DSR	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	3204.15	sqm	156.05	114.70	123.27	394982.65
28	6.44	DSR	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	108.25	metre	59.45	43.70	46.96	5083.71
29	4.17	DSR	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth	97.43	sqm	749.30	550.74	591.91	57669.98

30	5.46.1	DSR	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arragement support plates asper ASTM B221-02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions.						
			The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall confirm to ASTM 6063). **Roof Joint of 150 mm gap**	**15.40**	Mtr	6699.85	4924.39	5292.57	81505.55
								TOTAL	**24349204.81**
					SAY RS.			**243.49**	**LACS**

PROPOSED RAMP AT OPD & EMERGENCY DEPARTMENT
DETAIL OF MESUREMENT

S. N.	ITEM	NO.	L	B	H	Qty.	UNIT
1	**EARTH WORK**						
A	**Earth work in excavation in foundation**						
	F-1	2	3.500	3.500	1.500	36.75	
	F-2	3	4.300	3.900	1.500	75.47	
	F-3	1	4.600	4.200	1.500	28.98	
	CF-1	1	10.600	4.700	1.500	74.73	
	CF-2	1	10.800	4.900	1.500	79.38	
	CF-3	6	11.000	5.100	1.500	504.90	
					Total A	**800.21**	**Cum.**
B	**1.5 m to 3.0 m**						
	F-1	2	3.500	3.500	0.500	12.25	
	F-2	3	4.300	3.900	0.500	25.16	
	F-3	1	4.600	4.200	0.500	9.66	
	CF-1	1	10.600	4.700	0.500	24.91	
	CF-2	1	10.800	4.900	0.500	26.46	
	CF-3	6	11.000	5.100	0.500	168.30	
					Total B	**266.74**	**Cum.**
					Total (A+B)	**1066.95**	**Cum.**
	(a) Hence Earth work in filling by available earth						
	Q= Same as Total Qty of Earth for Excavation					**1066.95**	**Cum.**
	Earth work in Filling						
	Under floor	1	45.765	6.760	0.600	185.62	
		1	3.460	3.330	0.600	6.91	
	In Foundation (Total Excavation)					1066.95	
	Less C.C. 1:4:8 in foundation					-62.34	
	RCC in foundation					-147.46	
	Less B/W in foundation					0.00	
						864.06	**Cum.**
					G.Total	**864.06**	**Cum.**
	(b) Hence Earth work in filling by Carted earth						
	Q= Same as Total Qty of Earth Difference					**0.000**	**Cum.**
2	**Sand Filling**						
a	under floor fine sand	1	45.765	6.760	0.150	46.410	
		1	3.460	3.330	0.150	1.730	
						48.140	**Cum.**

	CONCRETE						
3	**P/L P.C.C. (1:4:8) in Foundation & Under Floor**						
	a) Under foundation						
	F-1	2	2.000	2.000	0.100	0.80	
	F-2	3	2.800	2.400	0.100	2.02	
	F-3	1	3.100	2.700	0.100	0.84	
	CF-1	1	9.100	3.200	0.100	2.91	
	CF-2	1	9.300	3.400	0.100	3.16	
	CF-3	6	9.500	3.600	0.100	20.52	
					Total	**30.25**	**Cum.**
	(b) Under floor						
	FLOOR AREA	1	45.765	6.760	0.100	30.94	
		1	3.460	3.330	0.100	1.15	
					Total	**32.09**	**Cum.**
					G. Total	**62.34**	**Cum.**
4	**R.C.C. WORK UPTO PLINTH**						
A	**FOUNDATION**						
	F-1	2	1.900	1.900	0.450	3.25	
		2	0.550	0.550	0.250	0.15	
	F-2	3	2.700	2.300	0.500	9.32	
		3	0.550	0.800	0.250	0.33	
	F-3	1	3.000	2.600	0.500	3.90	
		1	0.550	0.800	0.250	0.11	
	CF-1	1	9.000	3.100	0.450	12.56	
		4	0.800	0.550	0.250	0.44	
	CF-2	1	9.200	3.300	0.500	15.18	
		8	0.800	0.550	0.250	0.88	
	CF-3	6	9.400	3.500	0.500	98.70	
		24	0.800	0.550	0.250	2.64	
					Total	**147.460**	**Cum.**
B	**COLUMN UPTO PLINTH**						
	C-1	2	0.350	0.350	1.750	0.43	
	C-2	20	0.600	0.350	1.750	7.35	
	C-3	8	0.600	0.350	1.750	2.94	
					Total	**10.72**	**Cum.**
C	**PLINTH BEAM**						
	PB-1	1	3.625	0.250	0.450	0.41	
	PB-2	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	PB-3	2	39.160	0.300	0.450	10.57	
	PB-4	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	PB-5	1	10.090	0.250	0.450	1.14	
	PB-6	1	10.090	0.250	0.450	1.14	
	PB-7	12	3.080	0.250	0.450	4.16	
	PB-8	1	6.760	0.250	0.450	0.76	
	PB-9	1	6.760	0.300	0.450	0.91	
					Total	**31.35**	**Cum.**

		TOTAL (A+B+C)				**189.53**	**Cum.**
5	**RCC ABOVE PLINTH**						
	G.F.						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	
	F.F.						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	
	2.F.						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	
	TERRACE						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	
					Total	**152.92**	**Cum.**
B	**COLUMN ABOVE PLINTH**						
	G.F.						
	C-1	2	0.350	0.350	4.200	1.03	
	C-2	20	0.600	0.350	4.200	17.64	
	C-3	8	0.600	0.350	4.200	7.06	
					Total	**25.73**	**Cum.**
	F.F.						
	C-1	2	0.350	0.350	4.200	1.03	
	C-2	20	0.600	0.350	4.200	17.64	
	C-3	8	0.600	0.350	4.200	7.06	
					Total	**25.73**	**Cum.**
	S.F.						
	C-1	2	0.350	0.350	4.200	1.03	
	C-2	20	0.600	0.350	4.200	17.64	
	C-3	8	0.600	0.350	4.200	7.06	
					Total	**25.73**	**Cum.**
	TERRACE FLOOR						
	C-1	2	0.350	0.350	4.150	1.02	
	C-2	20	0.600	0.350	4.150	17.43	
	C-3	8	0.600	0.350	4.150	6.97	
					Total	**25.42**	**Cum.**
			GRAND TOTAL			**102.61**	**Cum.**
C	**BEAM**						
	G.F.						
	B-101	1	3.625	0.250	0.450	0.41	
	B-102	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-103	2	39.160	0.300	0.450	10.57	
	B-104	1	3.625	0.250	0.450	0.41	

		1	42.390	0.300	0.450	5.72	
	B-105	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-106	1	10.090	0.250	0.450	1.14	
	B-107	12	3.080	0.250	0.450	4.16	
	B-108	1	6.760	0.250	0.450	0.76	
	B-109	1	6.760	0.300	0.600	1.22	
					Total	**32.34**	**Cum.**
	F.F.						
	B-101	1	3.625	0.250	0.450	0.41	
	B-102	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-103	2	39.160	0.300	0.450	10.57	
	B-104	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-105	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-106	1	10.090	0.250	0.450	1.14	
	B-107	12	3.080	0.250	0.450	4.16	
	B-108	1	6.760	0.250	0.450	0.76	
	B-109	1	6.760	0.300	0.600	1.22	
					Total	**32.34**	**Cum.**
	2ND F.						
	B-101	1	3.625	0.250	0.450	0.41	
	B-102	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-103	2	39.160	0.300	0.450	10.57	
	B-104	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-105	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-106	1	10.090	0.250	0.450	1.14	
	B-107	12	3.080	0.250	0.450	4.16	
	B-108	1	6.760	0.250	0.450	0.76	
	B-109	1	6.760	0.300	0.600	1.22	
	BB-1	1	51.530	0.230	0.450	5.33	
					Total	**37.67**	**Cum.**
	TERRACE FLOOR						
	B-201	1	3.625	0.250	0.450	0.41	
	B-202	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-203	2	39.160	0.300	0.450	10.57	
	B-204	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-205	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-206	1	10.090	0.250	0.450	1.14	
	B-207	12	3.080	0.250	0.450	4.16	
	B-208	1	6.760	0.250	0.450	0.76	
	B-209	1	6.760	0.300	0.600	1.22	

					Total	**32.34**	**Cum.**
			GRAND TOTAL			**134.69**	**Cum.**
			OVERALL TOTAL			**390.220**	**Cum.**
6	Centering and shuttering including strutting, propping etc. and removal of form for :						
A	**FOUNDATION**						
	F-1	2	7.600		0.450	6.840	
	0	2	2.200		0.250	1.100	
	F-2	3	10.000		0.500	15.000	
	0	3	2.700		0.250	2.030	
	F-3	1	11.200		0.500	5.600	
	0	1	2.700		0.250	0.680	
	CF-1	1	24.200		0.450	10.890	
	0	4	2.700		0.250	2.700	
	CF-2	1	25.000		0.500	12.500	
	0	8	2.700		0.250	5.400	
	CF-3	6	25.800		0.500	77.400	
	0	24	2.700		0.250	16.200	
					Total	**156.340**	**Sqm**
B	**SLAB**						
	G.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	F.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	2.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	TERRACE						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
					Total	**1019.36**	**Sqm**
C	**Lintels, beams, plinth beams, girders, bressumers and cantilevers**						
	PB-1	1	3.625		1.150	4.17	
	PB-2	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	PB-3	1	39.160		1.200	46.99	
	PB-4	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	PB-5	1	10.090		1.150	11.60	

	PB-6	1	10.090		1.150	11.60	
	PB-7	1	3.080		1.150	3.54	
	PB-8	1	6.760		1.150	7.77	
	PB-9	1	6.760		1.200	8.11	
	G.F.						
	B-101	1	3.625		1.150	4.17	
	B-102	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	B-103	2	39.160		1.200	93.98	
	B-104	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	B-105	2	3.580		1.150	8.23	
	0	1	6.760		1.450	9.80	
	B-106	1	10.090		1.150	11.60	
	B-107	12	3.080		1.150	42.50	
	B-108	1	6.760		1.150	7.77	
	B-109	1	6.760		1.500	10.14	
	F.F.						
	B-101	1	3.625		1.150	4.17	
	B-102	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	B-103	2	39.160		1.200	93.98	
	B-104	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	B-105	2	3.580		1.150	8.23	
	0	1	6.760		1.450	9.80	
	B-106	1	10.090		1.150	11.60	
	B-107	12	3.080		1.150	42.50	
	B-108	1	6.760		1.150	7.77	
	B-109	1	6.760		1.500	10.14	
	2ND F.						
	B-101	1	3.625		1.150	4.17	
	B-102	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	B-103	2	39.160		1.200	93.98	
	B-104	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	B-105	2	3.580		1.150	8.23	
	0	1	6.760		1.450	9.80	
	B-106	1	10.090		1.150	11.60	
	B-107	12	3.080		1.150	42.50	
	B-108	1	6.760		1.150	7.77	
	B-109	1	6.760		1.500	10.14	
	BB-1	1	51.530		1.130	58.23	
	TERRACE FLOOR						
	B-201	1	3.625		1.150	4.17	
	B-202	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	B-203	2	39.160		1.200	93.98	
	B-204	1	3.625		1.150	4.17	

	0	1	42.390		1.200	50.87	
	B-205	2	3.580		1.150	8.23	
	0	1	6.760		1.450	9.80	
	B-206	1	10.090		1.150	11.60	
	B-207	12	3.080		1.150	42.50	
	B-208	1	6.760		1.150	7.77	
	B-209	1	6.760		1.500	10.14	
					Total	**1455.17**	**Sqm**
F	**COLUMN**						
	COLUMN UPTO PLINTH						
	C-1	2	1.400		1.750	4.90	
	C-2	20	1.900		1.750	66.50	
	C-3	8	1.900		1.750	26.60	
	COLUMN ABOVE PLINTH						
	G.F.						
	C-1	2	1.400		4.200	11.76	
	C-2	20	1.900		4.200	159.60	
	C-3	8	1.900		4.200	63.84	
	F.F.						
	C-1	2	1.400		4.200	11.76	
	C-2	20	1.900		4.200	159.60	
	C-3	8	1.900		4.200	63.84	
	S.F.						
	C-1	2	1.400		4.200	11.76	
	C-2	20	1.900		4.200	159.60	
	C-3	8	1.900		4.200	63.84	
	TERRACE FLOOR						
	C-1	2	1.400		4.150	11.62	
	C-2	20	1.900		4.150	157.70	
	C-3	8	1.900		4.150	63.08	
					Total	**1036.00**	**Sqm**
H	Edges of slabs and breaks in floors and walls Under 20 cm wide						
	GROUND FLOOR						
	OUTER WALL	1	108.250			108.25	
	FIRST FLOOR						
	OUTER WALL	1	108.250			108.25	
	SECOND FLOOR						
	OUTER WALL	1	108.250			108.25	
	TERRACE						
	OUTER WALL	1	108.250			108.25	
					Total	**433.00**	Mtr
7	**Extra for additional height in centering, shuttering**						
	G.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	F.F.						

	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	2.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	TERRACE						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
					Total	**1019.36**	**Sqm**
8	**Brick work in super structure (1:6) 230 mm thick**						
	G.F.						
	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
	F.F.						
	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
	S.F.						
	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
	TERRACE						
	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
					G.Total	**119.520**	**Cum.**
9	**P/L Chemical emulsion for antitermite**						
a	under floor fine sand	1	45.765	6.760		309.370	
		1	3.460	3.330		11.520	
					Total	**320.890**	**Sqm**
10	**Reinforcement**						
	UP TO F.F						
	Foundation	1	147.460	1.25%	78.500	144.700	Qtl
	COLUMN	1	87.910	2.50%	78.500	172.520	Qtl
	Slab	1	152.920	1.00%	78.500	120.040	Qtl
	Plinth Beam	1	31.350	2.50%	78.500	61.520	Qtl
	BEAM	1	134.690	2.75%	78.500	290.760	Qtl
					Total	**789.540**	**Qtl**
	DOOR WINDOW WORK						
	P/F steel / wooden chaukhats in position						
11	**P/F SS sliding door bolt/ lock**						
	Q= 250 mm				**Total**	**3.000**	**Nos.**

12	**P/F SS tower bolt**						
	Q= 250 mm				**Total**	**6.000**	**Nos.**
13	**P/F SS handle**						
	Q=				**Total**	**12.000**	**Nos.**
14	**Aluminium DOOR/window frame with shutter**						
A	**FIXED PORTION**						
	DW	3	3.000		2.550	22.95	
					Total	**22.95**	**Sqm.**
	K.G. /SQM	22.950	@	12.000		275.40	
					G.Total	**275.40**	**KG**
B	**SHUTTERS**						
	DW	3	3.000		2.550	22.95	
					Total	**22.95**	**Sqm.**
	K.G. /SQM	22.950	@	10.000		229.50	
					G.Total	**229.50**	**KG**
C	**GLASS PANS**						
	DW	3	3.000		2.550	22.95	
					TOTAL	**22.95**	**Sqm.**
	0.40 Sqm @ per Sqm	22.950	@	0.400		9.18	
					TOTAL	**9.18**	**Sqm.**
D	**PARTICLE BOARD**						
	Door						
	DW	3	3.000		2.550	22.95	
					TOTAL	**22.95**	**Sqm.**
	0.50 Sqm @ per Sqm	22.950	@	0.500		11.48	
					TOTAL	**11.48**	**Sqm.**
15	**Providing and fixing double action hydraulic floor spring**						
	DW	3	2.000			6.00	
					Total	**6.00**	**each**
16	**P/F S.S. RAILING**						
	RAMP	3	106.730		1.000	320.19	
	RAMP	3	81.920		1.000	245.76	
					Total	**565.95**	**SQM.**
	15 K.G. /SQM	565.95	@	15.000		8489.250	
					TOTAL	**8489.250**	**KG**
	FINISHING						
17	**15 mm thick cement plaster 1:6 on rough surface of wall.**						
	G.F.						

	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	F.F.						
	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	S.F.						
	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	TERRACE						
	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	GRAND TOTAL					**619.20**	**Sqm.**
18	**Extra for plastering exterior walls of height more than 10 m from ground level**						
*	**10m to 13m**						
	OUTER WALL						
	AS PER P.L.	1	108.250		3.000	324.75	
					Total	**324.75**	**Sqm.**
*	**13m to 16m**						
	OUTER WALL						
	AS PER P.L.	1	108.250		3.000	324.75	
					Total	**324.75**	**Sqm.**
*	**16m to 19m**						
	OUTER WALL						
	AS PER P.L.	1	108.250		1.350	146.14	
					Total	**146.14**	**Sqm.**
19	**12 mm cement plaster 1:6 on rough surface of wall.**						
	G.F.						
	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	F.F.						
	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	S.F.						
	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	TERRACE						
	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	GRAND TOTAL					**519.600**	**Sqm.**
	ADD SKIRTING 10%	1	519.600	0.100		51.960	Sqm.
	OVERALL TOTAL					**571.560**	**Sqm.**

20	**PRECASTED CEMENT CONCRETE CHEQUERED TILES**						
	G.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	F.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	S.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	GRAND TOTAL					**669.330**	**Sqm.**
	ADD SKIRTING 10%	1	669.330	0.100		66.933	Sqm.
	OVERALL TOTAL					**736.263**	**Sqm.**
21	**GRANITE FLOORING**						
	G.F.						
	VERANDHA	1	3.145	10.090		31.73	
	F.F.						
	VERANDHA	1	3.145	10.090		31.73	
	S.F.						
	VERANDHA	1	3.145	10.090		31.73	
					Total	**95.19**	**Sqm.**
	ADD SKIRTING 10%	1	95.190	0.100		9.519	Sqm.
	OVERALL TOTAL					**104.709**	**Sqm.**
22	**CC FLOORING**						
	G.F.						
	BELOW RAMP	1	45.765	6.760		309.37	
					Total	**309.37**	**Sqm.**
23	**WATER PROOFING**						
	TERRACE						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
		TOTAL				**254.840**	**Sqm.**
24	**Wall painting with oil bound distemper**						
	12 mm plaster area					619.20	
	RAMP	8	39.160	2.550		798.86	
	LANDING	4	3.460	6.760		93.56	
	VERANDHA	4	3.145	10.090		126.93	
	COLUMN	2	1.400		16.900	47.32	
		20	1.900		16.900	642.20	
		8	1.900		16.900	256.88	
					Total	**2584.950**	**Sqm.**
25	**Finishing wall with Acrylic Smooth paint**						

	BELOW PLINTH	1				619.20	
					Total	**619.200**	**Sqm.**
26	**BIRALA PUTTY**						
	Emulsion paint & Exterior paint					3204.150	
					Total	**3204.150**	**Sqm.**
27	Brick edging 7cm wide 11.4cm. deep to plinth protection with bricks of class designation 75 including grouting with cement mortar 1:4 (1 cement : 4 fine sand)	1	108.250			**108.250**	**R.Mtr.**
28	**Plinth Protection**						
	APRON	1	108.250	0.900		97.43	
					Total	**97.43**	**Sqm.**
29	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations						
	HORIZONTAL						
	GROUND FLOOR	1	3.850			3.850	
	FIRST FLOOR	1	3.850			3.850	
	SECOND FLOOR	1	3.850			3.850	
	TERRACE FLOOR	1	3.850			3.850	
					Total	**15.400**	**Mtr.**

BILL OF QUANTITY OF PROPOSED RAMP AT RADIATION ONCOLOGY DEPARTMENT

{Rate as per DSR*.0.735*(115*107)}									
S.N.	**DSR/ DSR**		**DESCRIPTION OF ITEM OF WORK**	**TOTAL QTY**	**UNIT**	**RATE**	**BARE RATE = RATE *.735**	**BARE RATE*(115/107)**	**AMOUNT Rs**
1A	DSR	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge. All kinds of soil	1066.95	Cum	177.50	130.46	140.22	149604.21
2	DSR	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	48.14	Cum	2123.75	1560.96	1677.66	80762.71
3	DSR	4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	62.34	Cum	6812.00	5006.82	5381.16	335461.62
4			Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but including the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.						
	DSR	5.33.1.1	All works upto plinth level Concrete of M25 grade with minimum cement content of 330 kg /cum	189.53	Cum	9504.75	6985.99	7508.31	1423049.68
5	DSR	5.33.2.1	All works above plinth level upto floor V level Concrete of M25 grade with minimum cement content of 330 kg /cum	390.22	Cum	9860.40	7247.39	7789.26	3039523.18
6	5.9	DSR 2021	Centering and shuttering including strutting, propping etc. and removal of form for :						
	5.9.1		Foundations, footings, bases of columns, etc. for mass concrete	156.34	sqm	392.15	288.23	309.78	48431.03
	5.9.3		Suspended floors, roofs, landings, balconies and access platform	1019.36	sqm	927.25	681.53	732.48	746665.06
	5.9.5		Lintels, beams, plinth beams, girders, bressumers and cantilevers	1455.17	sqm	736.40	541.25	581.72	846503.80
	5.9.6		Columns, Pillars, Piers, Abutments, Posts and Struts	1036.00	sqm	961.30	706.56	759.38	786719.83
	5.9.16		Edges of slabs and breaks in floors and walls Under 20 cm wide	433.00	Mtr	208.55	153.28	164.74	71334.48

7	5.11.1	DSR	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured). Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	1019.36	sqm	384.30	282.46	303.58	309456.33
8	6.4.2	DSR	Brick Work with common burnt clay (non modular) bricks of class - 150 in superstructure above plinth level up to floor V level in all shapes and sizes in: Cement mortar 1:6 (1 cement : 6 coarse sand)						
			G.F.	29.88	Cum	9105.95	6692.87	7193.27	214935.06
			FIRST FLOOR	29.88	Cum	9105.95	6692.87	7193.27	214935.06
			SECOND FLOOR	29.88	Cum	9105.95	6692.87	7193.27	214935.06
			TERRACE FLOOR	29.88	Cum	9105.95	6692.87	7193.27	214935.06
9	6.13.2	DSR	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.						
			G.F.	114.04	Sqm	1123.8	825.99	887.75	101238.95
			FIRST FLOOR	114.04	Sqm	1123.8	825.99	887.75	101238.95
			SECOND FLOOR	114.04	Sqm	1123.8	825.99	887.75	101238.95
			TERRACE FLOOR	114.04	Sqm	1123.8	825.99	887.75	101238.95
10		PAR PWD	Providing and injecting chemical emulsion for preconstructional antitermite treatment and creating a chemical barrier under and alround the coloumn pitswall tench basement excavation top surface if plinth filling junction of wall and floor along the external perimer of binding expansion joints,surrounding of pipes and conduits etc.complete(plinth area of the building at ground floor only shall be measured as per I.S.6313(Part ll 1981) aldrine emulsifiable concrete or any other approved material such as hepthachlor or chlordance will be used.The rate of application of chemical emulsion shall be as follows:- (1) treatment for masonary & foundation 5 litres per sq.m. (2) back fill in immediate contract with foundation 7.5 litre per sq.m (3)treatment of top surface of plinth filling 5 liters per sq.m. (4) treatment of soil along external parameter of building 7.50 lire per sq.m.	320.89	Sqm			230.00	73804.70
11	DSR 2019	504	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	789.54	Qtl	10785	7926.98	8519.65	6726601.32
12	MR		Providing and fixing SS sliding door bolts ISI marked anodised transparent or dyed to required colour or shade with nuts and screws etc. complete : 250x16 mm.	3.00	Nos			2044.00	6132.00

13	MR		Providing and fixing SS tower bolts ISI marked anodised transparent or dyed to required colour or shade with necessary screws etc. complete : 250x10 mm.	6.00	Nos.			450.00	2700.00
14	9.165.1	DSR 2021	Providing and fixing SS handles ISI marked anodised transparent or dyed to required colour or shade with necessary screws etc. complete :125 mm.	12.00	Nos.	119.20	87.61	94.16	1129.95
15	21.1	DSR	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately)						
A	21.1.1.2	DSR	Powder coated aluminium (minimum thickness of powder coating 50 micron)	275.40	KG	530.9	390.21	419.39	115498.96
B	21.1.2.2	DSR	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	229.50	KG	634.45	466.32	501.19	115022.15
C	21.3.2	DSR	Providing and fixing glazing in aluminium door, window, ventilator etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): 21.3.1 With float glass panes of 5.0 mm thickness shutters and partitions etc. with EPDM rubber / neoprene gasket.	9.18	SQM	1505.23	1106.34	1189.06	10915.58
D	21.2.2	DSR	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade l Type ll, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge Pre-laminated particle board with decorative lamination on both sides	11.48	SQM	1115.4	819.82	881.11	10110.78

16	21.4.1	DSR 2021	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS 6315 having brand logo embossed on the body/plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide palte etc. complete as per the direction of Engineer-in-charge.						
			With stainless steel cover plate minimum 1.25 mm thickness.						
			Floor Spring	6	No	2823.85	2075.53	2230.71	13384.26
17	10.28	DSR	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accesDSRies & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accesDSRies such as nuts, bolts, fasteners etc.).	8489.25	K.G.	772.40	567.71	610.16	5179799.99
18	13.5.2	DSR	15 mm thick plaster with cement mortar in consisting of 1:6 cement. On rough surface of wall.	619.20	sqm	395.35	290.58	312.31	193381.13
19	13.22	DSR	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.						
	13.22*1		10m to 13m	324.75	sqm	87.10	64.02	68.80	22344.40
	13.22*2		13m to 16m	324.75	sqm	174.20	128.04	137.61	44688.80
	13.22*3		16m to 19m	146.14	sqm	348.40	256.07	275.22	40220.61
20	13.4.2	DSR	12 mm thick plaster with cement mortar in consisting of 1:6 cement and approved coarse sand. On smooth surface of wall.	571.56	sqm	343.65	252.58	271.47	155159.93
21	11.20.2	DSR	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). Medium shade pigment using 50% white cement 50% Grey cement	736.26	sqm	1328.35	976.34	1049.33	772586.11

22	11.3.1	DSR	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	309.37	sqm	545.00	400.58	430.52	133191.37
23	11.56.1	DSR	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.	104.71	sqm	4481.30	3293.76	3540.02	370671.70
24	22.7	DSR	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:						
			(a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.						

			c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test."All above operations to be done in order and as directed and specified by the Engineer-in-Charge :						
			With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	254.84	sqm	1684.60	1238.18	1330.76	339129.68
25	13.41.1	DSR	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer	2584.95	sqm	185.65	136.45	146.65	379095.39
26	13.47.1	DSR	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade : New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	619.20	sqm	171.10	125.76	135.16	83691.69
27	13.80	DSR	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	3204.15	sqm	156.05	114.70	123.27	394982.65
28	6.44	DSR	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	108.25	metre	59.45	43.70	46.96	5083.71
29	4.17	DSR	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth	97.43	sqm	749.30	550.74	591.91	57669.98

30	5.46.1	DSR	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arragement support plates asper ASTM B221-02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions.						
			The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall confirm to ASTM 6063). **Roof Joint of 150 mm gap**	**15.40**	Mtr	6699.85	4924.39	5292.57	81505.55
								TOTAL	**24349204.81**
					SAY RS.			**243.49**	**LACS**

PROPOSED RAMP AT RADIATION ONCOLOGY DEPARTMENT
DETAIL OF MESUREMENT

S. N.	ITEM	NO.	L	B	H	Qty.	UNIT
1	**EARTH WORK**						
A	**Earth work in excavation in foundation**						
	F-1	2	3.500	3.500	1.500	36.75	
	F-2	3	4.300	3.900	1.500	75.47	
	F-3	1	4.600	4.200	1.500	28.98	
	CF-1	1	10.600	4.700	1.500	74.73	
	CF-2	1	10.800	4.900	1.500	79.38	
	CF-3	6	11.000	5.100	1.500	504.90	
					Total A	**800.21**	**Cum.**
B	**1.5 m to 3.0 m**						
	F-1	2	3.500	3.500	0.500	12.25	
	F-2	3	4.300	3.900	0.500	25.16	
	F-3	1	4.600	4.200	0.500	9.66	
	CF-1	1	10.600	4.700	0.500	24.91	
	CF-2	1	10.800	4.900	0.500	26.46	
	CF-3	6	11.000	5.100	0.500	168.30	
					Total B	**266.74**	**Cum.**
					Total (A+B)	**1066.95**	**Cum.**
	(a) Hence Earth work in filling by available earth						
	Q= Same as Total Qty of Earth for Excavation					**1066.95**	**Cum.**
	Earth work in Filling						
	Under floor	1	45.765	6.760	0.600	185.62	
		1	3.460	3.330	0.600	6.91	
	In Foundation (Total Excavation)					1066.95	
	Less C.C. 1:4:8 in foundation					-62.34	
	RCC in foundation					-147.46	
	Less B/W in foundation					0.00	
						864.06	**Cum.**
					G.Total	**864.06**	**Cum.**
	(b) Hence Earth work in filling by Carted earth						
	Q= Same as Total Qty of Earth Difference					**0.000**	**Cum.**
2	**Sand Filling**						
a	under floor fine sand	1	45.765	6.760	0.150	46.410	
		1	3.460	3.330	0.150	1.730	
						48.140	**Cum.**

	CONCRETE						
3	**P/L P.C.C. (1:4:8) in Foundation & Under Floor**						
	a) Under foundation						
	F-1	2	2.000	2.000	0.100	0.80	
	F-2	3	2.800	2.400	0.100	2.02	
	F-3	1	3.100	2.700	0.100	0.84	
	CF-1	1	9.100	3.200	0.100	2.91	
	CF-2	1	9.300	3.400	0.100	3.16	
	CF-3	6	9.500	3.600	0.100	20.52	
					Total	**30.25**	**Cum.**
	(b) Under floor						
	FLOOR AREA	1	45.765	6.760	0.100	30.94	
		1	3.460	3.330	0.100	1.15	
					Total	**32.09**	**Cum.**
					G. Total	**62.34**	**Cum.**
4	**R.C.C. WORK UPTO PLINTH**						
A	**FOUNDATION**						
	F-1	2	1.900	1.900	0.450	3.25	
		2	0.550	0.550	0.250	0.15	
	F-2	3	2.700	2.300	0.500	9.32	
		3	0.550	0.800	0.250	0.33	
	F-3	1	3.000	2.600	0.500	3.90	
		1	0.550	0.800	0.250	0.11	
	CF-1	1	9.000	3.100	0.450	12.56	
		4	0.800	0.550	0.250	0.44	
	CF-2	1	9.200	3.300	0.500	15.18	
		8	0.800	0.550	0.250	0.88	
	CF-3	6	9.400	3.500	0.500	98.70	
		24	0.800	0.550	0.250	2.64	
					Total	**147.460**	**Cum.**
B	**COLUMN UPTO PLINTH**						
	C-1	2	0.350	0.350	1.750	0.43	
	C-2	20	0.600	0.350	1.750	7.35	
	C-3	8	0.600	0.350	1.750	2.94	
					Total	**10.72**	**Cum.**
C	**PLINTH BEAM**						
	PB-1	1	3.625	0.250	0.450	0.41	
	PB-2	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	PB-3	2	39.160	0.300	0.450	10.57	
	PB-4	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	PB-5	1	10.090	0.250	0.450	1.14	
	PB-6	1	10.090	0.250	0.450	1.14	
	PB-7	12	3.080	0.250	0.450	4.16	
	PB-8	1	6.760	0.250	0.450	0.76	
	PB-9	1	6.760	0.300	0.450	0.91	
					Total	**31.35**	**Cum.**

		TOTAL (A+B+C)				**189.53**	**Cum.**
5	**RCC ABOVE PLINTH**						
	G.F.						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	
	F.F.						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	
	2.F.						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	
	TERRACE						
	RAMP	2	39.160	2.550	0.150	29.96	
	LANDING	1	3.460	6.760	0.150	3.51	
	VERANDHA	1	3.145	10.090	0.150	4.76	
					Total	**152.92**	**Cum.**
B	**COLUMN ABOVE PLINTH**						
	G.F.						
	C-1	2	0.350	0.350	4.200	1.03	
	C-2	20	0.600	0.350	4.200	17.64	
	C-3	8	0.600	0.350	4.200	7.06	
					Total	**25.73**	**Cum.**
	F.F.						
	C-1	2	0.350	0.350	4.200	1.03	
	C-2	20	0.600	0.350	4.200	17.64	
	C-3	8	0.600	0.350	4.200	7.06	
					Total	**25.73**	**Cum.**
	S.F.						
	C-1	2	0.350	0.350	4.200	1.03	
	C-2	20	0.600	0.350	4.200	17.64	
	C-3	8	0.600	0.350	4.200	7.06	
					Total	**25.73**	**Cum.**
	TERRACE FLOOR						
	C-1	2	0.350	0.350	4.150	1.02	
	C-2	20	0.600	0.350	4.150	17.43	
	C-3	8	0.600	0.350	4.150	6.97	
					Total	**25.42**	**Cum.**
			GRAND TOTAL			**102.61**	**Cum.**
C	**BEAM**						
	G.F.						
	B-101	1	3.625	0.250	0.450	0.41	
	B-102	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-103	2	39.160	0.300	0.450	10.57	
	B-104	1	3.625	0.250	0.450	0.41	

		1	42.390	0.300	0.450	5.72	
	B-105	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-106	1	10.090	0.250	0.450	1.14	
	B-107	12	3.080	0.250	0.450	4.16	
	B-108	1	6.760	0.250	0.450	0.76	
	B-109	1	6.760	0.300	0.600	1.22	
					Total	**32.34**	**Cum.**
	F.F.						
	B-101	1	3.625	0.250	0.450	0.41	
	B-102	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-103	2	39.160	0.300	0.450	10.57	
	B-104	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-105	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-106	1	10.090	0.250	0.450	1.14	
	B-107	12	3.080	0.250	0.450	4.16	
	B-108	1	6.760	0.250	0.450	0.76	
	B-109	1	6.760	0.300	0.600	1.22	
					Total	**32.34**	**Cum.**
	2ND F.						
	B-101	1	3.625	0.250	0.450	0.41	
	B-102	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-103	2	39.160	0.300	0.450	10.57	
	B-104	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-105	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-106	1	10.090	0.250	0.450	1.14	
	B-107	12	3.080	0.250	0.450	4.16	
	B-108	1	6.760	0.250	0.450	0.76	
	B-109	1	6.760	0.300	0.600	1.22	
	BB-1	1	51.530	0.230	0.450	5.33	
					Total	**37.67**	**Cum.**
	TERRACE FLOOR						
	B-201	1	3.625	0.250	0.450	0.41	
	B-202	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-203	2	39.160	0.300	0.450	10.57	
	B-204	1	3.625	0.250	0.450	0.41	
		1	42.390	0.300	0.450	5.72	
	B-205	2	3.580	0.250	0.450	0.81	
		1	6.760	0.250	0.600	1.01	
	B-206	1	10.090	0.250	0.450	1.14	
	B-207	12	3.080	0.250	0.450	4.16	
	B-208	1	6.760	0.250	0.450	0.76	
	B-209	1	6.760	0.300	0.600	1.22	

					Total	**32.34**	**Cum.**
			GRAND TOTAL			**134.69**	**Cum.**
			OVERALL TOTAL			**390.220**	**Cum.**
6	Centering and shuttering including strutting, propping etc. and removal of form for :						
A	**FOUNDATION**						
	F-1	2	7.600		0.450	6.840	
	0	2	2.200		0.250	1.100	
	F-2	3	10.000		0.500	15.000	
	0	3	2.700		0.250	2.030	
	F-3	1	11.200		0.500	5.600	
	0	1	2.700		0.250	0.680	
	CF-1	1	24.200		0.450	10.890	
	0	4	2.700		0.250	2.700	
	CF-2	1	25.000		0.500	12.500	
	0	8	2.700		0.250	5.400	
	CF-3	6	25.800		0.500	77.400	
	0	24	2.700		0.250	16.200	
					Total	**156.340**	**Sqm**
B	**SLAB**						
	G.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	F.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	2.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	TERRACE						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
					Total	**1019.36**	**Sqm**
C	**Lintels, beams, plinth beams, girders, bressumers and cantilevers**						
	PB-1	1	3.625		1.150	4.17	
	PB-2	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	PB-3	1	39.160		1.200	46.99	
	PB-4	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	PB-5	1	10.090		1.150	11.60	

	PB-6	1	10.090		1.150	11.60	
	PB-7	1	3.080		1.150	3.54	
	PB-8	1	6.760		1.150	7.77	
	PB-9	1	6.760		1.200	8.11	
	G.F.						
	B-101	1	3.625		1.150	4.17	
	B-102	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	B-103	2	39.160		1.200	93.98	
	B-104	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	B-105	2	3.580		1.150	8.23	
	0	1	6.760		1.450	9.80	
	B-106	1	10.090		1.150	11.60	
	B-107	12	3.080		1.150	42.50	
	B-108	1	6.760		1.150	7.77	
	B-109	1	6.760		1.500	10.14	
	F.F.						
	B-101	1	3.625		1.150	4.17	
	B-102	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	B-103	2	39.160		1.200	93.98	
	B-104	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	B-105	2	3.580		1.150	8.23	
	0	1	6.760		1.450	9.80	
	B-106	1	10.090		1.150	11.60	
	B-107	12	3.080		1.150	42.50	
	B-108	1	6.760		1.150	7.77	
	B-109	1	6.760		1.500	10.14	
	2ND F.						
	B-101	1	3.625		1.150	4.17	
	B-102	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	B-103	2	39.160		1.200	93.98	
	B-104	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	B-105	2	3.580		1.150	8.23	
	0	1	6.760		1.450	9.80	
	B-106	1	10.090		1.150	11.60	
	B-107	12	3.080		1.150	42.50	
	B-108	1	6.760		1.150	7.77	
	B-109	1	6.760		1.500	10.14	
	BB-1	1	51.530		1.130	58.23	
	TERRACE FLOOR						
	B-201	1	3.625		1.150	4.17	
	B-202	1	3.625		1.150	4.17	
	0	1	42.390		1.200	50.87	
	B-203	2	39.160		1.200	93.98	
	B-204	1	3.625		1.150	4.17	

	0	1	42.390		1.200	50.87	
	B-205	2	3.580		1.150	8.23	
	0	1	6.760		1.450	9.80	
	B-206	1	10.090		1.150	11.60	
	B-207	12	3.080		1.150	42.50	
	B-208	1	6.760		1.150	7.77	
	B-209	1	6.760		1.500	10.14	
					Total	**1455.17**	**Sqm**
F	**COLUMN**						
	COLUMN UPTO PLINTH						
	C-1	2	1.400		1.750	4.90	
	C-2	20	1.900		1.750	66.50	
	C-3	8	1.900		1.750	26.60	
	COLUMN ABOVE PLINTH						
	G.F.						
	C-1	2	1.400		4.200	11.76	
	C-2	20	1.900		4.200	159.60	
	C-3	8	1.900		4.200	63.84	
	F.F.						
	C-1	2	1.400		4.200	11.76	
	C-2	20	1.900		4.200	159.60	
	C-3	8	1.900		4.200	63.84	
	S.F.						
	C-1	2	1.400		4.200	11.76	
	C-2	20	1.900		4.200	159.60	
	C-3	8	1.900		4.200	63.84	
	TERRACE FLOOR						
	C-1	2	1.400		4.150	11.62	
	C-2	20	1.900		4.150	157.70	
	C-3	8	1.900		4.150	63.08	
					Total	**1036.00**	**Sqm**
H	Edges of slabs and breaks in floors and walls Under 20 cm wide						
	GROUND FLOOR						
	OUTER WALL	1	108.250			108.25	
	FIRST FLOOR						
	OUTER WALL	1	108.250			108.25	
	SECOND FLOOR						
	OUTER WALL	1	108.250			108.25	
	TERRACE						
	OUTER WALL	1	108.250			108.25	
					Total	**433.00**	Mtr
7	**Extra for additional height in centering, shuttering**						
	G.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	F.F.						

	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	2.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
	TERRACE						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
					Total	**1019.36**	**Sqm**
8	**Brick work in super structure (1:6) 230 mm thick**						
	G.F.						
	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
	F.F.						
	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
	S.F.						
	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
	TERRACE						
	PARAPET	1	108.250	0.230	1.200	29.88	
					Total	**29.880**	**Cum.**
					G.Total	**119.520**	**Cum.**
9	**P/L Chemical emulsion for antitermite**						
a	under floor fine sand	1	45.765	6.760		309.370	
		1	3.460	3.330		11.520	
					Total	**320.890**	**Sqm**
10	**Reinforcement**						
	UP TO F.F						
	Foundation	1	147.460	1.25%	78.500	144.700	Qtl
	COLUMN	1	87.910	2.50%	78.500	172.520	Qtl
	Slab	1	152.920	1.00%	78.500	120.040	Qtl
	Plinth Beam	1	31.350	2.50%	78.500	61.520	Qtl
	BEAM	1	134.690	2.75%	78.500	290.760	Qtl
					Total	**789.540**	**Qtl**
	DOOR WINDOW WORK						
	P/F steel / wooden chaukhats in position						
11	**P/F SS sliding door bolt/ lock**						
	Q= 250 mm				**Total**	**3.000**	**Nos.**

12	**P/F SS tower bolt**						
	Q= 250 mm				**Total**	**6.000**	**Nos.**
13	**P/F SS handle**						
	Q=				**Total**	**12.000**	**Nos.**
14	**Aluminium DOOR/window frame with shutter**						
A	**FIXED PORTION**						
	DW	3	3.000		2.550	22.95	
					Total	**22.95**	**Sqm.**
	K.G. /SQM	22.950	@	12.000		275.40	
					G.Total	**275.40**	**KG**
B	**SHUTTERS**						
	DW	3	3.000		2.550	22.95	
					Total	**22.95**	**Sqm.**
	K.G. /SQM	22.950	@	10.000		229.50	
					G.Total	**229.50**	**KG**
C	**GLASS PANS**						
	DW	3	3.000		2.550	22.95	
					TOTAL	**22.95**	**Sqm.**
	0.40 Sqm @ per Sqm	22.950	@	0.400		9.18	
					TOTAL	**9.18**	**Sqm.**
D	**PARTICLE BOARD**						
	Door						
	DW	3	3.000		2.550	22.95	
					TOTAL	**22.95**	**Sqm.**
	0.50 Sqm @ per Sqm	22.950	@	0.500		11.48	
					TOTAL	**11.48**	**Sqm.**
15	**Providing and fixing double action hydraulic floor spring**						
	DW	3	2.000			6.00	
					Total	**6.00**	**each**
16	**P/F S.S. RAILING**						
	RAMP	3	106.730		1.000	320.19	
	RAMP	3	81.920		1.000	245.76	
					Total	**565.95**	**SQM.**
	15 K.G. /SQM	565.95	@	15.000		8489.250	
					TOTAL	**8489.250**	**KG**
	FINISHING						
17	**15 mm thick cement plaster 1:6 on rough surface of wall.**						
	G.F.						

	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	F.F.						
	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	S.F.						
	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	TERRACE						
	PARAPET	1	108.250		1.430	154.80	
					Total	**154.800**	**Sqm**
	GRAND TOTAL					**619.20**	**Sqm.**
18	**Extra for plastering exterior walls of height more than 10 m from ground level**						
*	**10m to 13m**						
	OUTER WALL						
	AS PER P.L.	1	108.250		3.000	324.75	
					Total	**324.75**	**Sqm.**
*	**13m to 16m**						
	OUTER WALL						
	AS PER P.L.	1	108.250		3.000	324.75	
					Total	**324.75**	**Sqm.**
*	**16m to 19m**						
	OUTER WALL						
	AS PER P.L.	1	108.250		1.350	146.14	
					Total	**146.14**	**Sqm.**
19	**12 mm cement plaster 1:6 on rough surface of wall.**						
	G.F.						
	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	F.F.						
	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	S.F.						
	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	TERRACE						
	PARAPET	1	108.250		1.200	129.90	
					Total	**129.900**	**Sqm**
	GRAND TOTAL					**519.600**	**Sqm.**
	ADD SKIRTING 10%	1	519.600	0.100		51.960	Sqm.
	OVERALL TOTAL					**571.560**	**Sqm.**

20	**PRECASTED CEMENT CONCRETE CHEQUERED TILES**						
	G.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	F.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	S.F.						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	GRAND TOTAL					**669.330**	**Sqm.**
	ADD SKIRTING 10%	1	669.330	0.100		66.933	Sqm.
	OVERALL TOTAL					**736.263**	**Sqm.**
21	**GRANITE FLOORING**						
	G.F.						
	VERANDHA	1	3.145	10.090		31.73	
	F.F.						
	VERANDHA	1	3.145	10.090		31.73	
	S.F.						
	VERANDHA	1	3.145	10.090		31.73	
					Total	**95.19**	**Sqm.**
	ADD SKIRTING 10%	1	95.190	0.100		9.519	Sqm.
	OVERALL TOTAL					**104.709**	**Sqm.**
22	**CC FLOORING**						
	G.F.						
	BELOW RAMP	1	45.765	6.760		309.37	
					Total	**309.37**	**Sqm.**
23	**WATER PROOFING**						
	TERRACE						
	RAMP	2	39.160	2.550		199.72	
	LANDING	1	3.460	6.760		23.39	
	VERANDHA	1	3.145	10.090		31.73	
		TOTAL				**254.840**	**Sqm.**
24	**Wall painting with oil bound distemper**						
	12 mm plaster area					619.20	
	RAMP	8	39.160	2.550		798.86	
	LANDING	4	3.460	6.760		93.56	
	VERANDHA	4	3.145	10.090		126.93	
	COLUMN	2	1.400		16.900	47.32	
		20	1.900		16.900	642.20	
		8	1.900		16.900	256.88	
					Total	**2584.950**	**Sqm.**
25	**Finishing wall with Acrylic Smooth paint**						

	BELOW PLINTH	1				619.20	
					Total	**619.200**	**Sqm.**
26	**BIRALA PUTTY**						
	Emulsion paint & Exterior paint					3204.150	
					Total	**3204.15**	**Sqm.**
27	Brick edging 7cm wide 11.4cm. deep to plinth protection with bricks of class designation 75 including grouting with cement mortar 1:4 (1 cement : 4 fine sand)	1	108.250			**108.250**	**R.Mtr.**
28	**Plinth Protection**						
	APRON	1	108.250	0.900		97.43	
					Total	**97.43**	**Sqm.**
29	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations						
	HORIZONTAL						
	GROUND FLOOR	1	3.850			3.850	
	FIRST FLOOR	1	3.850			3.850	
	SECOND FLOOR	1	3.850			3.850	
	TERRACE FLOOR	1	3.850			3.850	
					Total	**15.400**	**Mtr.**

ELECTRICAL WORKS

ABSTRACT OF COST
(ELECTRICAL WORKS)

S.No.	DESCRIPTION OF ITEMS	UNIT	Qty.	Rate	AMOUNT IN LACS
1	**RAMP O.T. BLOCK**				
A	Cost of Electrical works	Job	Detail Attached		7.78
2	**RAMP OPD & EMERGENCY DEPARTMENT**				
A	Cost of Electrical works	Job	Detail Attached		5.43
3	**RAMP RADIATION ONCOLOGY**				
A	Cost of Electrical works	Job	Detail Attached		5.43
	Sub Total				**13.21**
		Say	**Rs.**	**13.21**	**Lacs**

BILL OF QUANTITY

RAMP O.T. BLOCK

INTERNAL ELECTRIFICATION WORK

Sl. No	Code/ No.	Sch. Ref.	Description of Items	AS PER CPWD DSR 2022					
	A.		**DSR Items**	**Unit**	**Qty.**	**Rate (A) (Rs.)**	**Rate (B) (Rs.)**	**APPLICABLE RATE**	**Amount (Rs.)**
						DSR 2022	**A*0.789**	**B*115/110**	
			Point Wiring :						
1	1.10	DSR	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.						
	1.10.3		Group C	Point	**132**	1467.00	1157.46	1210.07	**159729.89**
2	1.12	DSR	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Point	**6**	334.00	263.53	275.50	**1653.03**
			Submains :						

3	1.14	DSR	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.							
	1.14.1		2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Mtr.	**338**	233.00	183.84	192.19	**64961.31**
	1.14.2		2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Mtr.	**675**	275.00	216.98	226.84	**153115.31**
	1.14.3		2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Mtr.	**150**	334.00	263.53	275.50	**41325.67**
	1.14.9		4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Mtr.	**120**	754.00	594.91	621.95	**74633.66**
4	1.24	DSR	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.						
	1.24.1		**5/6 A switch**	Each	**6**	103.00	81.27	84.96	**509.77**
	1.24.4		**3 pin 5/6 A socket outlet**	Each	**6**	122.00	96.26	100.63	**603.80**
5	1.26	DSR	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	**24**	40.00	31.56	32.99	**791.87**
6	1.31	DSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	**12**	477.00	376.35	393.46	**4721.52**

7	1.32	DSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Each	**6**	586.00	462.35	483.37	**2900.22**
			MCB's & DB's :						
8	2.4	DSR	Supplying and fixing following way, horizontal type three pole and neutral (TPN), sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)						
	2.4.1		4 way (4 + 12), Double door	Each	**3**	4091.00	3227.80	3374.52	**10123.55**
9	2.5	DSR	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)						
	2.5.1		4 way (4 + 12), Double door	Each	**1**	7512.00	5926.97	6196.38	**6196.38**

10	2.10	DSR	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	2.10.1		Single pole	Each	**36**	256.00	201.98	211.17	**7601.94**
11	2.11	DSR	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	**3**	13.00	10.26	10.72	**32.17**
12	2.2	DSR	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.						
	2.2.13		100 A,30KA,FPMCCB	Each	**1**	7723.00	6093.45	6370.42	**6370.42**
13	1016	SOR	Supply and fixing of 40 Amp. TP MCB (10 KA) C Curve. **CAT A**	Each	**4**			1780.00	**7120.00**
14	1020	SOR	Supply and fixing of 40 Amp. FP MCB (10 KA) C Curve. **CAT A**	Each	**3**			2275.00	**6825.00**
			ELCB/RCCB Switches :						

15	2.15	DSR	Supplying and fixing following rating, four pole, (three phase and neutral) SPN, 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	2.15.1		40 A	Each	**3**	3188.00	2515.33	2629.67	**7889.00**
16	2.21	DSR	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Each	**2**	269.00	212.24	221.89	**443.78**
			Earthing Work :						
17	5.4	DSR	Earthing with G.I. earth plate 600 mm X 600 mm X 6 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**	7472.00	5895.41	6163.38	**12326.76**
18	5.9	DSR	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)	Mtr	**60**	144.00	113.62	118.78	**7126.82**

19	5.12	DSR	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	Mtr	**40**	287.00	226.44	236.74	**9469.43**
			Lighting Fixtures (Lights/Fans) :						
20	1413	SOR	Supply and fixing of LED Tube Light with Metal heavy duty Box type batten Light fitting 1X22 watt suitable for upto 1X22 watt LED Polycarbonate tube light complete Including tube suitable for both surface & suspended complete in all respect.**CAT. - AAA**	Each	**132**			1190.00	**157080.00**
			Armoured Cables (Cable/Gland/Lug) :						
21	501	SOR	Supplying and laying of aluminium conductor PVC insulated armoured served sheathed cable 1100 volts grade at the depth of 750 mm bellow ground level over a cushion of 75 mm thick sand all around and protected with burnt bricks on side and on top .On surface the cable run shall be fixed on MS clamps etc.of suitable size or as directed by the Engineer-Incharge ,complete in all respect.The armouring of the cable shall be properly connected with the earth conductor by clamps etc. Following size						
	I		size 16 sq mm x 4 core	Mtr	**100**			343.00	**34300.00**

22	503	SOR	Supply and fixing of brass nickle plated compression gland for pvc insulated & armoured served sheaththed ,underground cable including rubber ring etc. complete in all respect. Thearmouring of the cable shall be properly connected with the earth as per direction of engineer-incharge. for cable						
	I		size 16 sq mm x 4 core	Each	**3**			87.00	**261.00**
23	504	SOR	Supply and fixing of plain or pin type copper tin plated cable socket (lug) to cable leads for pvc insulated & armoured cable insulating with tape and making connection. complete in all respect as per direction of engineer -incharge. for cable						
	D		size 16 sq mm	Each	**9**			21.00	**189.00**
			Total						**778301.30**
						Say	**Rs.**	**7.78**	**Lacs**

SCHEDULE OF POINT

RAMP O.T. BLOCK

GROUND TO FIFTH FLOOR

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
S.NO	LOCATION	Light Point	Fan /Ex Fan Point	Light 1x22 W LED Tubelight	Batten Holder/Single Wall Bracket	Light 10 W bulk head LED	LED Mirror Light 4 W	LED Light 18 W	LED Light 32 W	LED Squre Light 45 W	Fan 1200 mm	Wall Fan 400 mm	Ex Fan 230 mm	Ex Fan 300 mm	Call Bell / Buzzer	Plug Point (On Board)	Plug Point (On Separate)	Call Bell Point	Two Way Light Point	Heavy duty Ex Fan/Light Point	Power Plug Point	AC MCB Power Point	Tele phone Point	Data Point	Tv Point
1	RAMP (G.F. TO F.F.)	132	0	132	0	0	0	0	0	0	0	0	0	0	0	6	12	0	0	0	6	0	0	0	0
	TOTAL	**132**	**0**	**132**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**12**	**0**	**0**	**0**	**6**	**0**	**0**	**0**	**0**

RAMP O.T. BLOCK

LOAD CALCULATION

S.No.	LOCATION	ALL FLOOR FITTING FIXTURE	INDIVISUAL LOAD OF FITTING (Watt)	G.F. TO F.F.	
				Total Fittings / Fixtures	Conn. Load (Watts)
1	Light 1x22 W LED Tubelight	132	22	132	2904
2	Batten Holder/Single Wall Bracket	0	15	0	0
3	Light 10 W bulk head LED	0	10	0	0
4	LED Mirror Light 4 W	0	4	0	0
5	LED Light 18 W	0	18	0	0
6	LED Light 32 W	0	32	0	0
7	LED Squre Light 45 W	0	45	0	0
8	Fan 1200 mm	0	100	0	0
9	Wall Fan 400 mm	0	60	0	0
10	Ex Fan 230 mm	0	60	0	0
11	Ex Fan 300 mm	0	100	0	0
12	Call Bell / Buzzer	0		0	0
13	Light Point	132		132	0
14	Fan /Ex Fan Point	0		0	0
15	Plug Point (On Board)	6	100	6	600
16	Plug Point (On Saperate)	12	100	12	1200
17	Call Bell Point	0		0	0
18	Two Way Light Point	0		0	0
19	Heavy duty Ex Fan/Light Point	0		0	0
20	Power Plug Point	6	750	6	4500
21	MCB Power Point	0	1500	0	0
22	Tele phone Point	0		0	0
23	Data Point	0		0	0
24	Tv Point	0		0	0

* Internal Electrification Load - **G.F. TO F.F.**

A. Light + Fan Load (in kW) : **2.90**
P = √3VICosΦ Load (in Amps) : 5.05

B. Plug Load (in kW) : **1.80**
P = √3VICosΦ Load (in Amps) : 3.13

C. Power Plug Load (in kW) : **4.50**
P = √3VICosΦ Load (in Amps) : 7.83

C. AC Power Plug Load (in kW) : **0.00**
P = √3VICosΦ Load (in Amps) : 0.00

Total Load - **9.20** **kW**

* Circuit Calculation -

A. Total Points : **132**
Sum of Light/Fan/Ex-Fan Ckts : 17

B. Total 5/6 Amps Plug Points : **18**

	Sum of 5/6 Amps Plug Ckts :	9
C.	Total 15/16 Amps Power Plug Points :	**6**
	Sum of Power Plug Ckts :	6
D.	Total A.C. Power Plug Points :	**0**
	Sum of A.C. Power Plug Ckts :	0
	Sum of All Ckts :	**32**

* DB's Calculation -

G.F. TO F.F.

A. For Light DB's :

DB's Cap. & Qty. - **4 W TPN** **3**

* Panel Calculation -

A.	Total Light/Fan Load :	**2.90**	**kW**
	Diversity Factor -	90%	
	Max. Demanded Load -	2.61	kW
	For Panel (in Amps) i/n 25% Circuit Breaker Capacity -	6.32	Amps
B.	Total UPS Load :	**1.80**	**kW**
	Diversity Factor -	70%	
	Max. Demanded Load -	1.26	kW
	For Panel (in Amps) i/n 25% Circuit Breaker Capacity -	3.05	Amps
B.	Total Power Load :	**4.50**	**kW**
	Diversity Factor -	70%	
	Max. Demanded Load -	3.15	kW
	For Panel (in Amps) i/n 25% Circuit Breaker Capacity -	7.61	Amps
B.	Total AC Power Load :	**0.00**	**kW**
	Diversity Factor -	70%	
	Max. Demanded Load -	0.00	kW
	For Panel (in Amps) i/n 25% Circuit Breaker Capacity -	0	Amps
	So Actual Demanded Load :	**7.02**	**KW**
	Load (in Amps.) =	**12.22**	**Amps.**

BILL OF QUANTITY

RAMP OPD & EMERGENCY DEPARTMENT

INTERNAL ELECTRIFICATION WORK

Sl. No	Code/ No.	Sch. Ref.	Description of Items	AS PER CPWD DSR 2022					
	A.		**DSR Items**	**Unit**	**Qty.**	**Rate (A) (Rs.)**	**Rate (B) (Rs.)**	**APPLICABLE RATE**	**Amount (Rs.)**
						DSR 2022	**A*0.789**	**B*115/110**	
			Point Wiring :						
1	1.10	DSR	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.						
	1.10.3		Group C	Point	**88**	1467.00	1157.46	1210.07	**106486.60**
2	1.12	DSR	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Point	**4**	334.00	263.53	275.50	**1102.02**
			Submains :						

3	1.14	DSR	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.							
	1.14.1		2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Mtr.	**225**	233.00	183.84	192.19	**43243.48**
	1.14.2		2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Mtr.	**450**	275.00	216.98	226.84	**102076.88**
	1.14.3		2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Mtr.	**100**	334.00	263.53	275.50	**27550.45**
	1.14.9		4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Mtr.	**80**	754.00	594.91	621.95	**49755.77**
4	1.24	DSR	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.						
	1.24.1		**5/6 A switch**	Each	**4**	103.00	81.27	84.96	**339.84**
	1.24.4		**3 pin 5/6 A socket outlet**	Each	**4**	122.00	96.26	100.63	**402.53**
5	1.26	DSR	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	**24**	40.00	31.56	32.99	**791.87**
6	1.31	DSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	**8**	477.00	376.35	393.46	**3147.68**

7	1.32	DSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Each	**4**	586.00	462.35	483.37	**1933.48**
			MCB's & DB's :						
8	2.4	DSR	Supplying and fixing following way, horizontal type three pole and neutral (TPN), sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)						
	2.4.1		4 way (4 + 12), Double door	Each	**2**	4091.00	3227.80	3374.52	**6749.03**
9	2.5	DSR	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)						
	2.5.1		4 way (4 + 12), Double door	Each	**1**	7512.00	5926.97	6196.38	**6196.38**

10	2.10	DSR	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	2.10.1		Single pole	Each	**24**	256.00	201.98	211.17	**5067.96**
11	2.11	DSR	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	**2**	13.00	10.26	10.72	**21.45**
12	2.2	DSR	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.						
	2.2.13		100 A,30KA,FPMCCB	Each	**1**	7723.00	6093.45	6370.42	**6370.42**
13	1016	SOR	Supply and fixing of 40 Amp. TP MCB (10 KA) C Curve. **CAT A**	Each	**2**			1780.00	**3560.00**
14	1020	SOR	Supply and fixing of 40 Amp. FP MCB (10 KA) C Curve. **CAT A**	Each	**2**			2275.00	**4550.00**
			ELCB/RCCB Switches :						

15	2.15	DSR	Supplying and fixing following rating, four pole, (three phase and neutral) SPN, 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	2.15.1		40 A	Each	**2**	3188.00	2515.33	2629.67	**5259.33**
16	2.21	DSR	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Each	**2**	269.00	212.24	221.89	**443.78**
			Earthing Work :						
17	5.4	DSR	Earthing with G.I. earth plate 600 mm X 600 mm X 6 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**	7472.00	5895.41	6163.38	**12326.76**
18	5.9	DSR	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)	Mtr	**60**	144.00	113.62	118.78	**7126.82**

19	5.12	DSR	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	Mtr	**40**	287.00	226.44	236.74	**9469.43**
			Lighting Fixtures (Lights/Fans) :						
20	1413	SOR	Supply and fixing of LED Tube Light with Metal heavy duty Box type batten Light fitting 1X22 watt suitable for upto 1X22 watt LED Polycarbonate tube light complete Including tube suitable for both surface & suspended complete in all respect.**CAT. - AAA**	Each	**88**			1190.00	**104720.00**
			Armoured Cables (Cable/Gland/Lug) :						
21	501	SOR	Supplying and laying of aluminium conductor PVC insulated armoured served sheathed cable 1100 volts grade at the depth of 750 mm bellow ground level over a cushion of 75 mm thick sand all around and protected with burnt bricks on side and on top .On surface the cable run shall be fixed on MS clamps etc.of suitable size or as directed by the Engineer-Incharge ,complete in all respect.The armouring of the cable shall be properly connected with the earth conductor by clamps etc. Following size						
	I		size 16 sq mm x 4 core	Mtr	**100**			343.00	**34300.00**

22	503	SOR	Supply and fixing of brass nickle plated compression gland for pvc insulated & armoured served sheaththed ,underground cable including rubber ring etc. complete in all respect. Thearmouring of the cable shall be properly connected with the earth as per direction of engineer-incharge. for cable						
	I		size 16 sq mm x 4 core	Each	**3**			87.00	**261.00**
23	504	SOR	Supply and fixing of plain or pin type copper tin plated cable socket (lug) to cable leads for pvc insulated & armoured cable insulating with tape and making connection. complete in all respect as per direction of engineer -incharge. for cable						
	D		size 16 sq mm	Each	**9**			21.00	**189.00**
			Total						**543441.96**
						Say	**Rs.**	**5.43**	**Lacs**

SCHEDULE OF POINT

RAMP OPD & EMERGENCY DEPARTMENT

GROUND TO THIRD FLOOR

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
S.NO	**LOCATION**	**Light Point**	**Fan /Ex Fan Point**	**Light 1x22 W LED Tubelight**	**Batten Holder/Single Wall Bracket**	**Light 10 W bulk head LED**	**LED Mirror Light 4 W**	**LED Light 18 W**	**LED Light 32 W**	**LED Squre Light 45 W**	**Fan 1200 mm**	**Wall Fan 400 mm**	**Ex Fan 230 mm**	**Ex Fan 300 mm**	**Call Bell / Buzzer**	**Plug Point (On Board)**	**Plug Point (On Separate)**	**Call Bell Point**	**Two Way Light Point**	**Heavy duty Ex Fan/Light Point**	**Power Plug Point**	**AC MCB Power Point**	**Tele phone Point**	**Data Point**	**Tv Point**
1	RAMP (G.F. TO F.F.)	88	0	88	0	0	0	0	0	0	0	0	0	0	0	4	8	0	0	0	4	0	0	0	0
	TOTAL	**88**	**0**	**88**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**8**	**0**	**0**	**0**	**4**	**0**	**0**	**0**	**0**

RAMP OPD & EMERGENCY DEPARTMENT
LOAD CALCULATION

S.No.	LOCATION	ALL FLOOR FITTING FIXTURE	INDIVISUAL LOAD OF FITTING (Watt)	G.F. TO T.F.	
				Total Fittings / Fixtures	Conn. Load (Watts)
1	Light 1x22 W LED Tubelight	88	22	88	1936
2	Batten Holder/Single Wall Bracket	0	15	0	0
3	Light 10 W bulk head LED	0	10	0	0
4	LED Mirror Light 4 W	0	4	0	0
5	LED Light 18 W	0	18	0	0
6	LED Light 32 W	0	32	0	0
7	LED Squre Light 45 W	0	45	0	0
8	Fan 1200 mm	0	100	0	0
9	Wall Fan 400 mm	0	60	0	0
10	Ex Fan 230 mm	0	60	0	0
11	Ex Fan 300 mm	0	100	0	0
12	Call Bell / Buzzer	0		0	0
13	Light Point	88		88	0
14	Fan /Ex Fan Point	0		0	0
15	Plug Point (On Board)	4	100	4	400
16	Plug Point (On Saperate)	8	100	8	800
17	Call Bell Point	0		0	0
18	Two Way Light Point	0		0	0
19	Heavy duty Ex Fan/Light Point	0		0	0
20	Power Plug Point	4	750	4	3000
21	MCB Power Point	0	1500	0	0
22	Tele phone Point	0		0	0
23	Data Point	0		0	0
24	Tv Point	0		0	0

* Internal Electrification Load - **G.F. TO T.F.**

A. Light + Fan Load (in kW) : **1.94**
P = √3VICosΦ Load (in Amps) : 3.37

B. Plug Load (in kW) : **1.20**
P = √3VICosΦ Load (in Amps) : 2.09

C. Power Plug Load (in kW) : **3.00**
P = √3VICosΦ Load (in Amps) : 5.22

C. AC Power Plug Load (in kW) : **0.00**
P = √3VICosΦ Load (in Amps) : 0.00

Total Load - **6.14** **kW**

* Circuit Calculation -

A. Total Points : **88**
Sum of Light/Fan/Ex-Fan Ckts : 11

B. Total 5/6 Amps Plug Points : **12**

	Sum of 5/6 Amps Plug Ckts :	6	
C.	Total 15/16 Amps Power Plug Points :	**4**	
	Sum of Power Plug Ckts :	4	
D.	Total A.C. Power Plug Points :	**0**	
	Sum of A.C. Power Plug Ckts :	0	
	Sum of All Ckts :	**21**	

* DB's Calculation -

G.F. TO T.F.

A. For Light DB's :

DB's Cap. & Qty. - **4 W TPN** **2**

* Panel Calculation -

A.	Total Light/Fan Load :		**1.94**	**kW**
		Diversity Factor -	90%	
		Max. Demanded Load -	1.74	kW
	For Panel (in Amps) i/n 25% Circuit Breaker Capacity -		4.21	Amps
B.	Total UPS Load :		**1.20**	**kW**
		Diversity Factor -	70%	
		Max. Demanded Load -	0.84	kW
	For Panel (in Amps) i/n 25% Circuit Breaker Capacity -		2.03	Amps
B.	Total Power Load :		**3.00**	**kW**
		Diversity Factor -	70%	
		Max. Demanded Load -	2.10	kW
	For Panel (in Amps) i/n 25% Circuit Breaker Capacity -		5.08	Amps
B.	Total AC Power Load :		**0.00**	**kW**
		Diversity Factor -	70%	
		Max. Demanded Load -	0.00	kW
	For Panel (in Amps) i/n 25% Circuit Breaker Capacity -		0	Amps
	So Actual Demanded Load :		**4.68**	**KW**
	Load (in Amps.)	=	**8.15**	**Amps.**

BILL OF QUANTITY

RAMP RADIATION ONCOLOGY

INTERNAL ELECTRIFICATION WORK

Sl. No	Code/ No.	Sch. Ref.	Description of Items	AS PER CPWD DSR 2022					
	A.		**DSR Items**	**Unit**	**Qty.**	**Rate (A) (Rs.)**	**Rate (B) (Rs.)**	**APPLICABLE RATE**	**Amount (Rs.)**
						DSR 2022	**A*0.789**	**B*115/110**	
			Point Wiring :						
1	1.10	DSR	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.						
	1.10.3		Group C	Point	**88**	1467.00	1157.46	1210.07	**106486.60**
2	1.12	DSR	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Point	**4**	334.00	263.53	275.50	**1102.02**
			Submains :						

3	1.14	DSR	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.						
	1.14.1		2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Mtr.	**225**	233.00	183.84	192.19	**43243.48**
	1.14.2		2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Mtr.	**450**	275.00	216.98	226.84	**102076.88**
	1.14.3		2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Mtr.	**100**	334.00	263.53	275.50	**27550.45**
	1.14.9		4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Mtr.	**80**	754.00	594.91	621.95	**49755.77**
4	1.24	DSR	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.						
	1.24.1		**5/6 A switch**	Each	**4**	103.00	81.27	84.96	**339.84**
	1.24.4		**3 pin 5/6 A socket outlet**	Each	**4**	122.00	96.26	100.63	**402.53**
5	1.26	DSR	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	**24**	40.00	31.56	32.99	**791.87**
6	1.31	DSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	**8**	477.00	376.35	393.46	**3147.68**

7	1.32	DSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Each	**4**	586.00	462.35	483.37	**1933.48**
			MCB's & DB's :						
8	2.4	DSR	Supplying and fixing following way, horizontal type three pole and neutral (TPN), sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)						
	2.4.1		4 way (4 + 12), Double door	Each	**2**	4091.00	3227.80	3374.52	**6749.03**
9	2.5	DSR	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)						
	2.5.1		4 way (4 + 12), Double door	Each	**1**	7512.00	5926.97	6196.38	**6196.38**

10	2.10	DSR	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	2.10.1		Single pole	Each	**24**	256.00	201.98	211.17	**5067.96**
11	2.11	DSR	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	**2**	13.00	10.26	10.72	**21.45**
12	2.2	DSR	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.						
	2.2.13		100 A,30KA,FPMCCB	Each	**1**	7723.00	6093.45	6370.42	**6370.42**
13	1016	SOR	Supply and fixing of 40 Amp. TP MCB (10 KA) C Curve. **CAT A**	Each	**2**			1780.00	**3560.00**
14	1020	SOR	Supply and fixing of 40 Amp. FP MCB (10 KA) C Curve. **CAT A**	Each	**2**			2275.00	**4550.00**
			ELCB/RCCB Switches :						

15	2.15	DSR	Supplying and fixing following rating, four pole, (three phase and neutral) SPN, 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	2.15.1		40 A	Each	**2**	3188.00	2515.33	2629.67	**5259.33**
16	2.21	DSR	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Each	**2**	269.00	212.24	221.89	**443.78**
			Earthing Work :						
17	5.4	DSR	Earthing with G.I. earth plate 600 mm X 600 mm X 6 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**	7472.00	5895.41	6163.38	**12326.76**
18	5.9	DSR	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)	Mtr	**60**	144.00	113.62	118.78	**7126.82**

19	5.12	DSR	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	Mtr	**40**	287.00	226.44	236.74	**9469.43**
			Lighting Fixtures (Lights/Fans) :						
20	1413	SOR	Supply and fixing of LED Tube Light with Metal heavy duty Box type batten Light fitting 1X22 watt suitable for upto 1X22 watt LED Polycarbonate tube light complete Including tube suitable for both surface & suspended complete in all respect.**CAT. - AAA**	Each	**88**			1190.00	**104720.00**
			Armoured Cables (Cable/Gland/Lug) :						
21	501	SOR	Supplying and laying of aluminium conductor PVC insulated armoured served sheathed cable 1100 volts grade at the depth of 750 mm bellow ground level over a cushion of 75 mm thick sand all around and protected with burnt bricks on side and on top .On surface the cable run shall be fixed on MS clamps etc.of suitable size or as directed by the Engineer-Incharge ,complete in all respect.The armouring of the cable shall be properly connected with the earth conductor by clamps etc. Following size						
	I		size 16 sq mm x 4 core	Mtr	**100**			343.00	**34300.00**

22	503	SOR	Supply and fixing of brass nickle plated compression gland for pvc insulated & armoured served sheaththed ,underground cable including rubber ring etc. complete in all respect. Thearmouring of the cable shall be properly connected with the earth as per direction of engineer-incharge. for cable						
	I		size 16 sq mm x 4 core	Each	**3**			87.00	**261.00**
23	504	SOR	Supply and fixing of plain or pin type copper tin plated cable socket (lug) to cable leads for pvc insulated & armoured cable insulating with tape and making connection. complete in all respect as per direction of engineer -incharge. for cable						
	D		size 16 sq mm	Each	**9**			21.00	**189.00**
			Total						**543441.96**
						Say	**Rs.**	**5.43**	**Lacs**

SCHEDULE OF POINT

RAMP RADIATION ONCOLOGY

GROUND TO THIRD FLOOR

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
S.NO	LOCATION	Light Point	Fan /Ex Fan Point	Light 1x22 W LED Tubelight	Batten Holder/Single Wall Bracket	Light 10 W bulk head LED	LED Mirror Light 4 W	LED Light 18 W	LED Light 32 W	LED Squre Light 45 W	Fan 1200 mm	Wall Fan 400 mm	Ex Fan 230 mm	Ex Fan 300 mm	Call Bell / Buzzer	Plug Point (On Board)	Plug Point (On Separate)	Call Bell Point	Two Way Light Point	Heavy duty Ex Fan/Light Point	Power Plug Point	AC MCB Power Point	Tele phone Point	Data Point	Tv Point
1	RAMP (G.F. TO F.F.)	88	0	88	0	0	0	0	0	0	0	0	0	0	0	4	8	0	0	0	4	0	0	0	0
	TOTAL	**88**	**0**	**88**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**8**	**0**	**0**	**0**	**4**	**0**	**0**	**0**	**0**

RAMP RADIATION ONCOLOGY
LOAD CALCULATION

S.No.	LOCATION	ALL FLOOR FITTING FIXTURE	INDIVISUAL LOAD OF FITTING (Watt)	G.F. TO T.F.	
				Total Fittings / Fixtures	Conn. Load (Watts)
1	Light 1x22 W LED Tubelight	88	22	88	1936
2	Batten Holder/Single Wall Bracket	0	15	0	0
3	Light 10 W bulk head LED	0	10	0	0
4	LED Mirror Light 4 W	0	4	0	0
5	LED Light 18 W	0	18	0	0
6	LED Light 32 W	0	32	0	0
7	LED Squre Light 45 W	0	45	0	0
8	Fan 1200 mm	0	100	0	0
9	Wall Fan 400 mm	0	60	0	0
10	Ex Fan 230 mm	0	60	0	0
11	Ex Fan 300 mm	0	100	0	0
12	Call Bell / Buzzer	0		0	0
13	Light Point	88		88	0
14	Fan /Ex Fan Point	0		0	0
15	Plug Point (On Board)	4	100	4	400
16	Plug Point (On Saperate)	8	100	8	800
17	Call Bell Point	0		0	0
18	Two Way Light Point	0		0	0
19	Heavy duty Ex Fan/Light Point	0		0	0
20	Power Plug Point	4	750	4	3000
21	MCB Power Point	0	1500	0	0
22	Tele phone Point	0		0	0
23	Data Point	0		0	0
24	Tv Point	0		0	0

* Internal Electrification Load - **G.F. TO T.F.**

A. Light + Fan Load (in kW) : **1.94**
P = √3VICosΦ Load (in Amps) : 3.37

B. Plug Load (in kW) : **1.20**
P = √3VICosΦ Load (in Amps) : 2.09

C. Power Plug Load (in kW) : **3.00**
P = √3VICosΦ Load (in Amps) : 5.22

C. AC Power Plug Load (in kW) : **0.00**
P = √3VICosΦ Load (in Amps) : 0.00

Total Load - **6.14** **kW**

* Circuit Calculation -

A. Total Points : **88**
Sum of Light/Fan/Ex-Fan Ckts : 11

B. Total 5/6 Amps Plug Points : **12**

	Sum of 5/6 Amps Plug Ckts :	6	
C.	Total 15/16 Amps Power Plug Points :	**4**	
	Sum of Power Plug Ckts :	4	
D.	Total A.C. Power Plug Points :	**0**	
	Sum of A.C. Power Plug Ckts :	0	
	Sum of All Ckts :	**21**	

* DB's Calculation -

G.F. TO T.F.

A. For Light DB's :

DB's Cap. & Qty. - **4 W TPN** **2**

* Panel Calculation -

A.	Total Light/Fan Load :		**1.94**	**kW**
		Diversity Factor -	90%	
		Max. Demanded Load -	1.74	kW
	For Panel (in Amps) i/n 25% Circuit Breaker Capacity -		4.21	Amps
B.	Total UPS Load :		**1.20**	**kW**
		Diversity Factor -	70%	
		Max. Demanded Load -	0.84	kW
	For Panel (in Amps) i/n 25% Circuit Breaker Capacity -		2.03	Amps
B.	Total Power Load :		**3.00**	**kW**
		Diversity Factor -	70%	
		Max. Demanded Load -	2.10	kW
	For Panel (in Amps) i/n 25% Circuit Breaker Capacity -		5.08	Amps
B.	Total AC Power Load :		**0.00**	**kW**
		Diversity Factor -	70%	
		Max. Demanded Load -	0.00	kW
	For Panel (in Amps) i/n 25% Circuit Breaker Capacity -		0	Amps
	So Actual Demanded Load :		**4.68**	**KW**
	Load (in Amps.)	=	**8.15**	**Amps.**