

## DETAIL ESTIMATE OF CONSTRUCTION OF 20 BEDED WARD

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
		<b>EXCAVATION</b>								
1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator )/ manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means)								
	2.6.1	all kinds of soil								
		Col.	12	1.90	2.00	2.20	100.32			
			7	2.00	2.10	2.20	64.68			
			3	1.20	1.20	2.20	9.50			
			15	2.20	2.30	2.20	166.98			
			6	2.00	2.20	2.20	58.08			
			4	1.20	1.20	2.20	12.67			
		Curtain wall	2	5.40	0.45	0.60	2.92			
			2	6.00	0.45	0.60	3.24			
			2	5.00	0.45	0.60	2.70			
			1	1.50	0.45	0.60	0.41			
			1	11.40	0.45	0.60	3.08			
			2	3.00	0.45	0.60	1.62			
			1	12.90	0.45	0.60	3.48			
			2	6.40	0.45	0.60	3.46			
						<b>TOTAL</b>	<b>433.14</b>	cum	<b>116.00</b>	50244.24
2	2.7	Earth work in excavation/ by mechanical means (Hydraulic Excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.								
	2.7.1	Ordinary rock								
		Col.	12	1.90	2.00	0.80	36.48			
			7	2.00	2.10	0.80	23.52			
			3	1.20	1.20	0.80	3.46			
			15	2.20	2.30	0.80	60.72			
			6	2.00	2.20	0.80	21.12			
			4	1.20	1.20	0.80	4.61			
							<b>149.91</b>	cum	<b>182.70</b>	27388.56
3	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation. (No extra lift is payable if work is done by mechanical means)								
	2.26.1	All kinds of soil.								
		Col.	12	1.90	2.00	0.70	31.92			
			7	2.00	2.10	0.70	20.58			
			3	1.20	1.20	0.70	3.02			
			15	2.20	2.30	0.70	53.13			
			6	2.00	2.20	0.70	18.48			
			4	1.20	1.20	0.70	4.03			
							<b>131.16</b>	cum	<b>27.00</b>	3541.32
	2.26.2	Ordinary or hard rock.								
			12	1.90	2.00	1.50	68.40			
			7	2.00	2.10	1.50	44.10			
			3	1.20	1.20	1.50	6.48			
			15	2.20	2.30	1.50	113.85			

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
			6	2.00	2.20	1.50	39.60			
			4	1.20	1.20	1.50	8.64			
							<b>281.07</b>	cum	<b>47.70</b>	13407.04
4	2.25	Filling available excavated earth (excluding hard rock/Ordinary rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.								
		Total Excavation	1				<b>583.05</b>			
		PCC	-1			28.11	-28.11			
		Footing & column	-1			44.73	-44.73			
							<b>510.21</b>	cum	<b>64.80</b>	33061.61
		<b>FILLING IN PLINTH</b>								
5	2.28.1	supplying and filling in plinth with hard muram/hard copra having MDD not less than 2.0t/m under floors including watering, ramming and compacting (minimum compaction 95% of MDD ) in layers not exceeding 20cm in thickness and dressing complete. (Not-maximum thickness of this layer to be provided shall be 30cm)								
		store room	1	6.00	3.00	0.90	16.20			
		ward	2	6.00	11.10	0.90	119.88			
		Corridor	1	16.20	2.40	0.90	34.99			
		doctor room	1	4.20	3.10	0.90	11.72			
		nurse duty room	1	4.20	3.60	0.90	13.61			
							<b>196.40</b>	cum	<b>270.00</b>	53028.00
6	2.26	Supplying and filling in plinth with crusher stone dust / coarse sand under floor I/c watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete. Nickness of this layer to be provided shall be 20 cm.								
		store room	1	6.00	3.00	0.20	3.60			
		ward	2	6.00	11.10	0.20	26.64			
		Corridor	1	16.20	2.40	0.20	7.78			
		doctor room	1	4.20	3.10	0.20	2.60			
		nurse duty room	1	4.20	3.60	0.20	3.02			
							<b>43.64</b>	cum	<b>604.80</b>	26393.47
7	2.32	Preconstruction antitermite treatment to the building under construction by providing								
		Stage 1: Treating the bottom and the sides (upto 30cm hight of the excavated trench @ 5 litter per sqm of the surface area.								
		Stage 2: After masonry/RCC work, the backfill in the immdiate contact with the foundation structure treatment @ 7.5 litter per sqm. of the vertical surface of the substructure for each side.								
		Stage 3: surface treatment by spreading emulsion over the plinth area before laying the base concrete under floors @ 5.0 litres/Sqm.								
		Stage 4: Pumping the emulsion in plinth masonry on filling side at floor junction @ 7.5 litres/Sqm.								
		Stage 5: Pumping the emulsion from outer side of the plinth below ground around the masonry @ 5.0 litres/Sqm as per I.S. 8944 Emulsion. (1Chlorpyrifos: 19 water) with five years service guarantee (Measurements to be taken for plinth area)								

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
		Note – Treatment should start when foundation trenches and pits are ready to take bed concrete or leveling course in foundations. Laying of bed concrete should start when the chemical emulsion has been absorbed by the soil and the surface is reasonably dry. Treatment should not be carried out when it is raining or when soil is wet with rain or subsoil water. This also applies to filled up soil within the plinth area before laying the subgrade for flooring.								
		store room	1	6.00	3.00		18.00			
		ward	2	6.00	11.10		133.20			
		Corridor	1	16.20	2.40		38.88			
		doctor room	1	4.20	3.10		13.02			
		nurse duty room	1	4.20	3.60		15.12			
		Corridor	1	15.40	4.50		69.30			
							<b>287.52</b>		<b>122.40</b>	35192.45
		<b>BASE CONCRETE</b>								
8	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :								
	4.1.2	With 40mm nominal size graded stone aggregate.								
	4.1.2.1	M 15 - Grade concrete								
		Footing								
			12	1.90	2.00	0.15	6.84			
			7	2.00	2.10	0.15	4.41			
			3	1.20	1.20	0.15	0.65			
			15	2.20	2.30	0.15	11.39			
			6	2.00	2.20	0.15	3.96			
			4	1.20	1.20	0.15	0.86			
						Total	<b>28.11</b>	cum	<b>3962.70</b>	111391.50
		Under Floor								
		store room	1	6.00	3.00	0.10	0.60			
		ward	2	6.00	11.10	0.10	1.20			
		Corridor	1	16.20	2.40	0.10	1.62			
		doctor room	1	4.20	3.10	0.10	0.42			
		nurse duty room	1	4.20	3.60	0.10	0.42			
		Corridor	1	15.40	4.50	0.10	1.54			
							<b>5.80</b>	cum	<b>3962.70</b>	22983.66
		<b>RCC WORK UP TO PLINTH</b>								
9	5.1	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :								
	5.1.1	M 20 –Grade Concrete								
		Column Footing	12	1.60	1.70	0.50	16.32			
			7	1.70	1.80	0.50	10.71			
			3	0.90	0.90	0.50	1.22			
			15	1.90	2.00	0.50	28.50			
			6	1.70	1.90	0.50	9.69			
			4	0.90	0.90	0.50	1.62			
		Col up to PL								
			37	0.40	0.60	3.15	27.97			
			2	0.30	0.30	3.15	0.57			
			6	0.20	0.40	3.15	1.51			
			2	0.20	0.20	3.15	0.25			
		R .C.C. Curtain wall side								

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
			2	5.40	0.15	0.45	0.73			
			2	6.00	0.15	0.45	0.81			
			2	5.00	0.15	0.45	0.68			
			1	1.50	0.15	0.45	0.10			
			1	11.40	0.15	0.45	0.77			
			2	3.00	0.15	0.45	0.41			
			1	12.90	0.15	0.45	0.87			
			2	6.40	0.15	0.45	0.86			
			2	5.40	0.15	0.45	0.73			
			2	6.00	0.15	0.45	0.81			
			2	5.00	0.15	0.45	0.68			
			4	1.50	0.15	0.45	0.41			
			1	11.40	0.15	0.45	0.77			
			2	3.00	0.15	0.45	0.41			
			1	12.90	0.15	0.45	0.87			
			2	6.40	0.15	0.45	0.86			
		Plinth Beam								
			1	4.20	0.40	0.60	1.01			
			2	5.60	0.40	0.60	2.69			
			4	6.00	0.40	0.60	5.76			
			2	6.00	0.40	0.60	2.88			
			2	5.40	0.40	0.60	2.59			
			2	2.40	0.40	0.60	1.15			
			4	1.50	0.40	0.60	1.44			
			1	10.50	0.40	0.60	2.52			
			1	6.50	0.40	0.60	1.56			
			1	19.30	0.40	0.60	4.63			
			1	10.50	0.40	0.60	2.52			
			3	6.40	0.40	0.60	4.61			
		store room	1	6.00	3.00	0.100	1.80			
		doctore room	1	4.20	3.10	0.100	1.30			
		nurse duty room	1	4.20	3.60	0.100	1.51			
		ward	2	6.00	11.10	0.100	13.32			
		corridor	1	2.40	19.70	0.100	4.73			
		toilet	2	1.70	1.50	0.100	0.51			
		lav	1	5.00	6.40	0.100	3.20			
							<b>168.86</b>	cum	<b>4581.90</b>	773699.63
		<b>RCC WORK IN SUPERSTRUCTURE</b>								
10	5.2	Reinforced cement concrete work (with 20mm nominal size graded stone aggregate) in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and up to floor two level excluding cost of centering, shuttering, finishing and reinforcement :								
	5.2.1	M 20 –Grade Concrete								
		<b>GROUND FLOOR</b>								
		Column above G L	37	0.40	0.60	3.60	31.97			
			2	0.30	0.30	3.60	0.65			
			6	0.20	0.40	3.60	1.73			
			2	0.20	0.20	3.60	0.29			
		<b>FLOOR BEAM</b>								
			4	5.60	0.40	0.45	4.03			
			1	4.20	0.40	0.35	0.59			
			6	6.00	0.40	0.45	6.48			
			2	5.00	0.40	0.45	1.8			
			3	1.50	0.40	0.35	0.63			
			1	10.50	0.40	0.25	1.05			

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
			1	6.50	0.40	0.35	0.91			
			1	19.80	0.40	0.25	1.98			
			1	22.20	0.40	0.25	2.22			
			1	13.40	0.40	0.25	1.34			
			4	6.40	0.40	0.45	4.61			
		Lintels								
			2	10.50	0.20	0.30	1.26			
			2	19.30	0.20	0.30	2.32			
			2	6.40	0.20	0.30	0.77			
			2	5.00	0.20	0.30	0.60			
		Slab								
		store room	1	6.00	3.00	0.165	2.97			
		doctore room	1	4.20	3.10	0.165	2.15			
		nurse duty room	1	4.20	3.60	0.165	2.49			
		ward	2	6.00	11.10	0.165	21.98			
		corridor	1	2.40	19.70	0.165	7.80			
		toilet	2	1.70	1.50	0.165	0.84			
		lav	1	5.00	6.40	0.165	5.28			
		CHAJJA								
		W1	10	1.20	1.50	0.12	2.16			
		W1	2	1.80	0.75	0.12	0.32			
		W2	1	2.40	0.75	0.12	0.22			
		V(0.60)	1	7.00	0.75	0.12	0.63			
							<b>112.07</b>	cum	<b>4681.80</b>	524689.33
		<b>FORM WORK</b>								
11	5.9.1	Centering and shuttering I/c strutting propping etc and removal of form for								
	5.9.1	Foundations, footings, bases of columns, etc. for concrete up to plinth level.								
		Column Footing	12	6.60		0.20	15.84			
			7	5.00		0.20	7.00			
			3	3.60		0.20	2.16			
			15	7.80		0.20	23.40			
			6	7.20		0.20	8.64			
			4	1.20		0.20	0.96			
		col (UPTOGL)								
			37	2.00		2.60	192.40			
			2	1.20		2.55	6.12			
			6	1.20		2.60	18.72			
			2	0.80		2.50	4.00			
		col (GL TO PLINTH)								
			37	2.00		0.60	44.40			
			2	1.20		0.60	1.44			
			6	1.20		0.60	4.32			
			2	0.80		0.60	0.96			
							<b>330.36</b>	sqm	<b>156.60</b>	51734.38
12	5.9.2	Walls (any thickness) including attached pilasters butteresses, plinth beams and string courses etc.up to plinth level.								
		P beam								
			1	4.20		1.60	6.72			
			2	5.60		1.60	17.92			
			4	6.00		1.60	38.40			
			2	6.00		1.60	19.20			
			2	5.40		1.60	17.28			
			2	2.40		1.60	7.68			
			4	1.50		1.60	9.60			
			1	10.50		1.60	16.80			
			1	6.50		1.60	10.40			

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
			1	19.30		1.60	30.88			
			1	10.50		1.60	16.80			
			3	6.40		1.60	30.72			
		R . C. C. Curtain Wall side								
			2	5.40		0.80	8.64			
			2	6.00		0.80	9.60			
			2	5.00		0.80	8.00			
			1	1.50		0.80	1.20			
			1	11.40		0.80	9.12			
			2	3.00		0.80	4.80			
			1	12.90		0.80	10.32			
			2	6.40		0.80	10.24			
		Bottom	2	5.40		0.15	1.62			
		Side	2	5.40		0.45	4.86			
		Bottom	2	6.00		0.15	1.80			
		Side	2	6.00		0.45	5.40			
		Bottom	2	5.00		0.15	1.50			
		Side	2	5.00		0.45	4.50			
		Bottom	1	1.50		0.15	0.23			
		Side	1	1.50		0.45	0.68			
		Bottom	1	11.40		0.15	1.71			
		Side	1	11.40		0.45	5.13			
		Bottom	2	3.00		0.15	0.90			
		Side	2	3.00		0.45	2.70			
		Bottom	1	12.90		0.15	1.94			
		Side	1	12.90		0.45	5.81			
		Bottom	2	6.40		0.15	1.92			
		Side	2	6.40		0.45	5.76			
							<b>330.780</b>	sqm	<b>240.30</b>	79486.00
13	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts.								
		Column above G L								
			37	2.00		3.60	266.4			
			2	1.20		3.60	8.64			
			6	1.20		3.60	25.92			
			2	0.80		3.60	5.76			
							<b>306.72</b>	sqm	<b>320.40</b>	98273.00
14	5.9.5	Lintels, beams, girders, bressumers and cantilevers								
		<b>Floor Beam</b>								
			4	5.60		0.90	20.16			
			1	4.20		0.70	2.94			
			6	6.00		0.90	32.40			
			2	5.00		0.90	9.00			
			3	1.50		0.70	3.15			
			1	10.50		0.50	5.25			
			1	6.50		0.70	4.55			
			1	19.80		0.50	9.90			
			1	22.20		0.50	11.10			
			1	13.40		0.50	6.70			
			4	6.40		0.90	23.04			
		Lintels								
			2	10.50		0.80	16.80			
			2	19.30		0.80	30.88			
			2	6.40		0.80	10.24			
			2	5.00		0.80	8.00			
							<b>194.11</b>	sqm	<b>204.30</b>	39657.00
15	5.9.3	Suspended floors, roofs, landings, balconies and access platform.								
		<b>SLAB</b>								
		store room	1	6.00	3.00		18.00			

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
		doctore room	1	4.20	3.10		13.02			
		nurse duty room	1	4.20	3.60		15.12			
		ward	2	6.00	11.10		133.20			
		corridor	1	2.40	19.70		47.28			
		toilet	2	1.70	1.50		5.10			
		lav	1	5.00	6.40		32.00			
							<b>263.72</b>	sqm	<b>237.60</b>	62660.00
	5.9.19	Weather shade, Chajjas, corbels etc., including edges.								
		Chajja								
		side	4	5.00	0.30		6.00			
		Bottom	10	1.20	1.50		18.00			
		Side	10	2.70	0.10		2.70			
		Bottom	2	1.80	0.75		2.70			
		Side	2	3.00	0.10		0.60			
		Bottom	1	2.40	0.75		1.80			
		Side	1	1.80	0.75		1.35			
		Bottom	1	7.00	0.75		5.25			
							<b>38.40</b>	sqm	<b>405.90</b>	15587.00
16	5.16.3	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire up to floor two level including all wastage etc. complete.								
	5.16.6	Thermo-Mechanically Treated bars.(TMT) 500 D confirming to IS : 1786								
		150 kg/cum		<b>280.93</b>		150.00	42139.50			
							<b>42139.50</b>	kg	<b>60.00</b>	2528370.00
		<b>BRICK WORK</b>								
17	6.7	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor II level in :								
	6.7.1	having 100 kg / cm <sup>2</sup> average compressive strength								
	6.7.1.2	Cement mortar 1:6 (1 cement : 6 sand)								
			9	6.00	0.20	3.15	34.02			
			5	5.00	0.20	3.15	15.75			
			4	1.50	0.20	3.15	3.78			
			2	11.10	0.20	3.15	13.99			
			1	6.30	0.20	3.15	3.97			
			2	21.50	0.20	3.15	27.09			
			2	26.10	0.20	3.15	32.89			
			1	25.80	0.20	3.15	16.25			
			1	2.40	0.20	3.15	1.51			
		Deduction								
		W1	-12	1.20	0.20	1.50	-4.32			
		W2	-2	1.20	0.20	1.50	-0.72			
		V1	-8	0.50	0.20	1.00	-0.80			
		V2	-4	1.00	0.20	0.50	-0.40			
		D1	-3	1.20	0.20	2.40	-1.73			
		D2	-2	1.00	0.20	2.40	-0.96			
		D3	-1	1.00	0.20	2.10	-0.42			
		D5	-2	0.90	0.20	2.10	-0.76			
		M.S. GRILL	-2	1.60	0.20	1.80	-1.15			
							<b>139.14</b>	cum	<b>4279.00</b>	595380.00
		<b>HALF BRICK MASONARY</b>								

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
18	6.15	Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS : 12894, in super structure above plinth and upto floor two level.								
	6.15.1	having 100 kg/cm <sup>2</sup> average compressive strength								
	6.15.1.2	Cement mortar 1 : 4 (1 cement : 4 sand)								
		Male Toilet	1	4.20		3.20	13.44			
			6	1.40		3.10	26.04			
			1	4.50		3.10	13.95			
			1	3.20		3.10	9.92			
		DEDUCTION								
		D	6	0.90		2.10	-11.34			
							<b>52.01</b>	sqm	<b>551.00</b>	28657.51
19	6.18	Extra for providing and placing in position 2 Nos. 8mm dia. M.S. bars at every third course of half brick masonry.					<b>52.01</b>	sqm	<b>114.30</b>	5944.743
		<b>PCC WINDOW SILL</b>								
20	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. up to floor two level, excluding the cost of centering, shuttering and finishing :								
	4.2.1	With 20mm nominal size graded stone aggregate								
	4.2.1.2	M 20 – Grade concrete								
		W1	12	1.20	0.20	0.10	1.44			
		W2	2	1.20	0.20	0.10	0.24			
		V1	8	0.50	0.20	0.10	0.40			
		V2	4	1.00	0.20	0.10	0.40			
							<b>2.48</b>	Cum	<b>4659.30</b>	11555.064
		<b>PLASTER</b>								
21	13.1	12 mm cement plaster of mix :								
	13.1.2	1:6 (1 cement : 6 sand)								
		outer front wall	4	6.20		4.50	111.60			
		outer back side wall	1	6.40		4.20	26.88			
		outer back side wall	2	5.40		4.20	45.36			
		outer toilet wall	4	1.70		4.20	28.56			
		outer ward wall	4	11.50		4.20	193.20			
		outer store wall	1	3.20		4.20	13.44			
		outer lav wall	4	6.40		4.20	107.52			
		inner long wall	6	6.00		1.98	71.28			
		ineer long wall	2	4.20		1.98	16.63			
		inner long wall	3	6.00		1.98	35.64			
		inner long wall	2	5.00		1.98	19.80			
		inner cross wall	6	3.60		1.98	42.77			
		inner cross wall	2	1.50		1.98	5.94			
		inner cross wall ward	4	11.20		1.98	88.70			
		inner cross wall	2	3.00		1.98	11.88			
		inner cross wall ward	2	6.40		1.98	25.34			
		Deduction								
		W1	12	1.20		1.50	-21.60			
		W2	2	1.20		1.50	-3.60			
		V1	8	0.50		1.00	-4.00			
		V2	8	1.00		0.50	-4.00			
		D1	3	1.20		2.40	-8.64			
		D2	2	1.00		2.40	-4.80			
		D3	1	1.00		2.10	-2.10			



S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
		D5	2	0.90		2.10	-3.78			
		M.S. GRILL	3	1.60		1.80	-8.64			
							<b>783.38</b>	sqm	<b>99.00</b>	77555.00
22	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :								
	13.2.2	1:6 (1 cement : 6 sand)								
		Wall	1	80.00		4.50	360.00			
		Column Projection	25	0.80		3.60	72.00			
							<b>432.00</b>	sqm	<b>115.20</b>	49766.00
23	13.8	6 mm cement plaster of mix :								
		1:3 (1 cement : 3 sand)								
		store room	1	6.00	3.00		18.00			
		ward	2	6.00	11.10		133.20			
		Doctor room	1	4.20	3.10		13.02			
		nurse duty room	1	4.20	3.60		15.12			
		toilet	2	1.70	1.50		5.10			
		lav	1	5.00	6.40		32.00			
		corridor	1	2.40	19.20		46.08			
							<b>262.52</b>	sqm	<b>86.40</b>	22682.00
24	13.29	18 mm thick plain cement mortar band in cement mortar 1:4 (1 cement : 4 sand):								
	13.29.3	Raised Band								
		W1	12	2.70			32.40			
		W2	2	2.70			5.40			
		V1	8	1.40			11.20			
		V2	8	1.40			11.20			
							<b>60.20</b>	mtr	<b>2.88</b>	173.00
25	12.26	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 sand : 4 stone aggregate 10mm and down grade) including finishing with cement mortar 1:3 (1 cement : 3 sand) as per standard design :								
	12.26.1	In 75x75mm deep chase								
		W1	12	2.70			32.40			
		W2	2	2.70			5.40			
		V1	8	1.40			11.20			
		V2	8	1.40			11.20			
							<b>60.20</b>	mtr	<b>89.10</b>	5364.00
26	5.24	Providing for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.								
		W1	12	2.70			32.40			
		W2	2	2.70			5.40			
		V1	8	1.40			11.20			
		V2	8	1.40			11.20			
							<b>60.20</b>	mtr	<b>16.65</b>	1002.00
		<b>FLOORING</b>								
		<b>KOTA STONE FLOORING</b>								
27	11.34	Kota /cuddapah stone slab flooring over 20mm thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab I/c rubbing and polishing complete with base of cement mortar 1:4, 25mmthick								
	11.34.1	25 mm thick.								
		store room	1	5.00	3.00		15.00			
		scarting	1	18.00	0.10		1.80			

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
							16.80			
		Add 25% for skirting					4.20			
							21.00	sqm	688.50	14459.00
28	11.39	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.					21.00	sqm	147.60	3100.00
		<b>VITRIFIED FLOOR TILES</b>								
29	11.90	Providing and laying vitrified Floor tiles Multi/Double charged (minimum top layer thickness 2.0 mm) Nano polished self design in different sozes with water absorption less than 0.05% and confirming to IS:15622 of approved make in all color and shades , 1st quality / premium in flooring ,laid on 20 mm thick cement mortar 1:4 (1 cement , 4 sand) including grouting the joints with white cement and matching pigments etc complete.								
	11.90.1	In light shade Glossy/Rustic/Satin finished								
	(b)	Size 800 x 800 mm Thickness 11-12 mm								
		Doctor room	1	4.20	3.10		13.02			
		nurse duty room	1	4.20	3.60		15.12			
		corridor	1	2.40	19.20		46.08			
		ward	2	6.00	11.00		132.00			
							206.22	sqm		
		Add 25% for skirting					51.56			
						Total	257.78	sqm	1010.70	260533.00
		<b>VITRIFIED TILES MATT FINISH</b>								
30	11.92	Providing and laying Vitrified floor tiles full body Design homogeneous body matt/rustic finish in in different sizes with water absorption less than 0.05% and confirming to IS:15622 of approved make in all color and shades , 1st quality / premium in flooring ,laid on 20 mm thick cement mortar 1:4 (1 cement , 4 sand) including grouting the joints with white cement and matching pigments etc complete for indoors								
	11.92.1	In light colour and shade as ivory.,beige,blanco grey etc								
	(c)	Size 600 x600 mm Thickness 15-16 mm ( for heavy duty indoor areas of non residential buildings only such as school, library , hostels , library hospitals offices etc								
		toilet	2	1.70		1.50	5.10			
		lav	1	5.00		6.40	32.00			
							37.10	sqm	1270.80	47147.00
31	11.50	Providing and laying rectified Glazed Ceramic wall tiles 300x450 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours except Ivory, Grey, Fume Red Brown, laid on 12 mm thick cement mortar 1:3 (1 Cement : 3 sand) prepared same day when mortar is still green i.e. within 6 hours, including grouting the joints with white cement and matching pigments etc., complete.								
		toilet	2	1.70		2.00	6.80			
		dado	2	1.50		2.00	6.00			
		ward	2	6.00		2.00	24.00			
		dado	2	11.00		2.00	44.00			
		doctor room	1	4.20		2.00	8.40			

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
		dado	1	3.10		2.00	6.20			
		bath	3	1.40		2.00	8.40			
		dado	3	1.40		2.00	8.40			
		toilet	3	1.30		2.00	7.80			
		dado	3	1.30		2.00	7.80			
		corridor dado	2	19.20		2.00	76.80			
		lav	1	5.00		2.00	10.00			
		lav dado	2	29.00		2.00	116.00			
		basin area	1	4.80		2.00	9.60			
		basin area	2	11.00		2.00	44.00			
		Ded								
		D	8	0.90		1.80	-12.96			
							<b>371.24</b>	sqm	<b>628.20</b>	233213.00
		<b>GRANITE FLOORING</b>								
32	11.29	Providing and laying gang saw cut 18 mm thick, mirror polished pre moulded (wherever required) and pre polished machine cut granite stone of required size and shape of approved shade, colour and texture in flooring laid over 20mm thick base of cement mortar 1:4 (1cement : 4 sand) including grouting the joints with white cement mixed with matching pigment, epoxy touch ups etc. complete as per direction of Engineer-in-Charge								
	11.29.2	All Shades /colour other than black								
	11.29.2.1	Area of slab less than 0.50 sqm.								
		nurse duty room	1	4.20	0.50		2.10			
							<b>2.10</b>	sqm	<b>1954.80</b>	4105.00
33	11.22	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish wherever required etc. complete at all levels. samples approved by Engineer-in-charge.								
	11.22.2	Granite of any colour and shade								
		Window sill								
		W1	12	1.20	0.30		4.32			
		W2	2	1.20	0.30		0.72			
		V1	8	0.50	0.30		1.20			
		V2	4	1.00	0.30		1.20			
							<b>7.44</b>	sqm	<b>1901.70</b>	14149.00
		<b>DOOR FRAME</b>								

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
34	10.13	Providing and fixing pressed steel door frames conforming to IS: 4351 manufactured from commercial mild steel sheet including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.60 mm pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges, 2.5mm thick with mortar guards, lock strike-plate and shock absorbers as specified filling the frame with Cement Concrete 1:3:6 at site before fixing (cost of concrete to be paid separately) and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:								
	10.13.6	Profile E of 1.25mm thick double rebate of size 115mmx50mm								
	10.13.6.1	Fixing with adjustable lugs with split end tail to each jamb.								
		D1	3	2.0		2.40	14.40			
			3	1.0		1.20	3.60			
		D2	2	2.0		2.40	9.60			
			2	1.0		1.00	2.00			
		D3	1	2.0		2.10	4.20			
			1	1.0		1.00	1.00			
		D4	8	2.0		2.10	33.60			
			8	1.0		0.90	7.20			
							<b>75.60</b>	Rmtr	<b>372.60</b>	28169.00
		<b>DOOR SHUTTER</b>								
35	9.18.2	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters of such as duro board, century or equivalent make.								
	9.19.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.								
		D1	3	1.20		2.40	8.64			
		D2	2	1.00		2.40	4.80			
		D3	3	1.00		2.10	6.30			
		D4	8	0.90		2.10	15.12			
							<b>34.86</b>	sqm	<b>3294.00</b>	114829.00
36	9.134	Providing and Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S including cost of adhesive of approved quality.								
	9.134.1	1.5 mm thick.								
		D1	3	1.20		2.40	8.64			
		D2	2	1.00		2.40	4.80			
		D3	3	1.00		2.10	6.30			
		D4	8	0.90		2.10	15.12			
							<b>34.86</b>			
		Both side					<b>69.72</b>	sqm	<b>765.90</b>	53399.00

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
37	9.21	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).								
		D1	3	1.20		2.40	8.64			
		D2	2	1.00		2.40	4.80			
		D3	3	1.00		2.10	6.30			
		D4	8	0.90		2.10	15.12			
							<b>34.86</b>	sqm	360.90	12581.00
	10.26	Providing and fixing fly proof wire gauze to windows, clerestory windows and doors with M.S. Flat 15x3mm and nuts and bolts complete.								
38	10.26.2	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides.					<b>34.86</b>	sqm	1201.05	41869.00
		<b>ALLUMINIUM WORK</b>								
39	21.1	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) :								
	21.1.1	For fixed portion.								
	21.1.1.	Powder coated aluminium (minimum thickness of 3 powder coating 50 micron)								
		windows								
		W1	12	1.20		1.50	21.60			
		W2	2	1.20		1.50	3.60			
		V1	8	0.50		1.00	4.00			
		V2	8	1.00		0.50	4.00			
							<b>33.20</b>	sqm		
		wt @ 10 kg/sqm					<b>332.00</b>	kg	339.30	112648.00
40	21.1.2	For shutters of doors, windows and 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).								
	21.1.2.	Powder coated aluminium (minimum thickness of 2 powder coating 50 micron)								
		windows								
		W	12	1.20		1.20	17.28			
		W	2	1.20		1.50	3.60			
		V	8	0.50		1.00	4.00			
		V2	8	1.00		0.50	4.00			
							<b>28.88</b>	sqm		
		wt @ 25 kg/sqm					<b>722.00</b>	kg	382.50	276165.00

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
41	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/ neoprene gasket 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) :								
	21.3.2	With float glass panes of 5.50 mm thickness					28.88	sqm	838.80	24225.00
	21.4	Add extra for providing and fixing froasted glass instead of float glass								
	21.4.2	With glass panes of 5.50 mm thickness					14.44	sqm	235.80	3405.00
42	21.5	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 plate etc. complete as per the direction of Engineer-in-charge :								
	21.5.1	With stainless steel cover plate - minimum 1.25 mm thickness	4	2			8.00	no	1810.80	14486.00
43	21.9	Filling the gap in between aluminium frame and adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.								
	21.9.1	Upto 5mm depth and 5 mm width								
		W	12	1.20		1.20	57.60			
		W	2	1.20		1.50	10.80			
		V	8	0.50		1.00	24.00			
		V2	8	1.00		0.50	4.00			
							96.40	mtr	82.00	7905.00
		<b>STEEL WORK</b>								
44	10.25	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 accessories and 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-in-charge. ( for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)								
							16.00	sqm		
		Wt = 25 kg/sqm					400.00	kg	714.38	285752.00

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
45	10.1	Steel work in built up tubular ( round, square or rectangular hollow tubes etc.) trusses/frame work etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete								
	10.15.1	Hot finished welded type tubes								
		window grill								
		W	12	1.20		1.20	57.60			
		W	2	1.20		1.50	10.80			
		V	8	0.50		1.00	24.00			
		V	8	1.00		0.50	24.00			
							<b>116.40</b>	sqm		
		wt = 15 kg/sqm					<b>1746.00</b>	kg	97.07	169484.00
46	10.17	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1.5mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of 16mm dia M.S. bar bent to shape as per standard					<b>20.00</b>	no	133.56	2671.00
47	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia steel pulleys complete with bolts, nuts, locking arrangement, stoppers,handles, including applying a priming coat of approved steel primer. Rate includes recess cutting in floor and making good the same wherever required.								
		Entrance	1	3.2		2.4	<b>7.68</b>	sqm	3718.71	28560.00
		<b>PAINTING</b>								
48	13.53	Finishing walls with water proofing cement paint of required shade :								
	13.53.1	New work (Two or more coats applied @ 3.84 kg/10 sqm).								
		Qty same as internal plaster & ceiling plaster + External plaster					1477.90			
		Dado				(-)	371.24			
							<b>1849.14</b>	sqm	43.20	79883.00
49	13.41	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, Like birla white /JK white or equivalent, over the plastered wall surface to prepare the surface even and smooth i/c all cost of material, labour and scaffold etc in all position complete.								
		Qty same as internal plaster & ceiling plaster + External plaster					1477.90			
		Dado				(-)	371.24			
							<b>1849.14</b>	sqm	66.60	123153.00
50	13.51	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.								

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
	13.51.2	Two coats.								
		Qty same as internal plaster & ceiling plaster					1045.90	sqm	50.40	52713.00
51	13.55	Finishing walls with Acrylic Smooth exterior paint of required shade:								
	13.55.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).								
		same as external plaster					432.00	sqm	78.30	33826.00
	13.58	<b>Applying priming coat :</b>								
52	13.58.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)								
		D1	3	1.20		2.40	8.64			
		D2	2	1.00		2.40	4.80			
		D3	3	1.00		2.10	6.30			
		D4	8	0.90		2.10	15.12			
							26.22			
		both side					52.44	sqm	22.50	1180.00
53	13.58.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works								
		Windows					116.40			
							116.40	sqm		
		both side					232.80	sqm	17.10	3981.00
54	13.68	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :								
	13.68.1	Two or more coats on new work								
		Doors								
		D1	3	1.20		2.40	8.64			
		D2	2	1.00		2.40	4.80			
		D3	3	1.00		2.10	6.30			
		D4	8	0.90		2.10	15.12			
		Windows					116.40			
							151.26			
							302.52	sqm	47.70	14430.00
		<b>FITTINGS</b>								
55	9.101	Providing and fixing chromium plated brass sliding door bolts ISI marked with nuts and screws etc complete.								
	9.101.2	250x16mm								
		D1	3	2			6			
		D2	2	2			4			
		D3	3	2			6			
		D4	8	2			16			
							32	no	220.50	7056.00
56	9.102	Providing and fixing chromium plated brass tower bolts ISI marked with nuts and screws etc complete.								
	9.102.2	250x10mm								
		D1	3	2			6			
		D2	2	2			4			
		D3	3	2			6			
		D4	8	2			16			
							32	no	147.60	4723.00



S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
57	9.113	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:								
	9.113.1	125 mm								
		D1	3	2			6			
		D2	2	2			4			
		D3	3	2			6			
		D4	8	2			16			
							<b>32</b>	no	<b>67.50</b>	2160.00
58	9.76	Providing and fixing Stainless steel hanging type floor door stopper with necessary screws, etc. complete.								
		D1	3	2			6			
		D2	2	2			4			
		D3	3	2			6			
		D4	8	2			16			
							<b>32</b>	no	<b>92.70</b>	2966.00
59	4.17	Making plinth protection 50mm thick of cement concrete grade M10 over 75mm bed of dry metal ballast 40mm nominal size well rammed and consolidated and filled with sand including finishing the top smooth (with 20mm nominal size graded stone aggregate.)								
			1	50.00	1.50		75.00	sqm	<b>315.90</b>	23693.00
		<b>WATER PROOFING</b>								
60	22.6	Providing and laying in situ six course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd, 4th and 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 2.0mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 100micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20micron HMHDPE film. (with five years service gurantee).								
		Slab terrace								
		store room	1	6.00	3.00		18.00			
		doctore room	1	4.20	3.10		13.02			
		nurse duty room	1	4.20	3.60		15.12			
		ward	2	6.00	11.10		133.20			
		corridor	1	2.40	19.70		47.28			
		toilet	2	1.70	1.50		5.10			
		lav	1	5.00	6.40		32.00			
							<b>263.72</b>	sqm	<b>545.40</b>	143833.00
61	13.27	Providing and fixing chicken mesh as per ISI specification and in the required width with 50mm long Bombay nails on vertical and horizontal junctions of RCC and brick wall including scaffolding and all lead and lift etc. complete before plastering upt 10 meter height.								
			1	820.00			<b>820.00</b>	sqm	<b>55.80</b>	45756.00

S. No	Sor- I No	Items	NO	L	B	D/H	Quantity	unit	Rate	Amount
62	12.52.3	Providing and fixing Unperforated Antibacterial Metal Tile Ceiling system comprising of tile of 600 mm wide and 600 mm long manufactured out of 0.7 mm thick aluminium alloy 3105 with beveled edge of 4.15 mm width and height of 32 mm . The tile will be manufactured on advance equipment that include several stages in the manufacturing process by approved manufacturerers such as Hunter ,Duglas,Linder Durlam, or equivalent. Tile end will be raised with pipe and stops to ensure positive engagement in to the spring to enable for de-mounting og individual panel. The tile side will be sufficiently high to ensure a minimum defelection across the lenth of tile. All tile will be beveled edged. The tile shall be epoxy polyster powder coating with ANTIBAC in white colour which is in compliant to ROHS directive. The tile shall be clipped in to clip in rail of 0.5 mm thick GI in form of grid system using a cross connector. The clip in rail shall be supported from slab by means of rigid suspension of 4mm GI rod hold on clamp with clip. ( Rate include all Material AND LABOUR.								
		Ward								
		Flat surfaces	1	11.00	6.00		66.00	sqm	2538.90	167567.00
		<b>Total</b>								<b>7808641.49</b>
		Sub total								<b>7808641.49</b>
		Add 10% for water Supply and Sanitary Fittings								780864.15
		Add 12.5% for Electrification								976080.19
		Add 3.75% for External Sewage connection								292824.06
		Add 1.25% for Service connection								97608.02
		Add 2% for fire fighting								156172.83
										<b>10112190.73</b>
		Add 1.5 % for Work charge establishment								151682.86
		Add 2 % for Contingencies								202243.81
										<b>10466117.41</b>
		Add 12% GST								<b>937036.98</b>
										<b>11403154.39</b>
									say	<b>10000000.00</b>