GOVERNMENT OF CHHATTISGARH

PUBLIC WORKS DEPARTMENT

DETAILED STANDARD ESTIMATE

FOR CONSTRUCTION OF

PRIMARY HEALTH CENTRE BUILDING

ESTIMATED COST - 49.57 LAC'S

DIVISION No.-2

PUBLIC WORK DEPARTMENT

RAIPUR (C.G.)

REPORT AND SPECIFICATION

1 NAME OF WORK : Detailed Standard Estimate For Construction Of P.H.C. Building.

2 AMOUNT OF ESTIMATE : Rs.49.5 Lacs.

3 AUTHORITY : Department of Health, Government of C.G., Raipur.

4 NECESSITY : Detailed Standard Estimate has been framed to cover the cost of construction of P.H.C. Building. Provision of construction of P.H.C. Building is made in the Budget and so one Standard Estimate is prepared.

5 Plinth Area : 410.34 sqm.

6 PROVISION : Following provision have been made in the estimate :

Foundation & Structure : R.C.C. framed structure of M-20 with base M-10
Wall : Brick Masonry in C.M. 1:5

Door & Window : i) Door & Window frames of pressed steel profile and shutters of 35 mm thick flush door.
ii) Window will be with M S grill.
iii) Aluminum partition with Aluminum doors at some places.
Slab : 120 mm thick R.C.C. Roof slab of M-20.
Plaster : One side 12 mm thick plaster in C.M. 1:5
Other side 15 mm thick plaster in C.M. 1:5
In ceiling 6 mm thick plaster in C.M. 1:4
Flooring : 1) In general Ceramic (Porcelain) tile flooring has been provided over 100 mm thick base concrete of M-10. Kota stone flooring at corridor .
Painting : All Doors and windows, ventilators and grills has been painted with synthetic enamel paints. Inner side of building has been provided with Distemper and out side of building has been provided with water proofing cement paint.
Water Supply & Sanitary Fittings and Electrification :
Detailed Estimate for Water Supply and Sanitary work, Septic Tank & Electrification work has been made and included in the cost.
Tube Well : Provision for Tube Well has been made in the estimate.
Water Harvesting → Provision is given for water Harvesting system in the Estimate.

7 RATES & SPECIFICATIONS : Rates provided in the estimate are as per S.O.R. for Building work I force from 1st June 2009. The work will be executed as per CPWD specifications with upto date amendment.

Sub-Engineer

Sub-Divisional Officer
PWD, Central Store Sub Division,
Raipur

Executive Engineer
PWD, Division No.-2,
Raipur

CIS

CHIEF ENGINEER
P.W.D. Raipur Zone, Raipur
(CHHATTISGARH)

Superintending Engineer
P.W.D. Raipur Circle I
RAIPUR (C.G.)

GENERAL ABSTRACT

S.No.	Sub Head	Amount in Rs.
1	Construction of Primary Health Centre	41,47,200.00
2	Construction of Septic Tank	38,417.00
3	Boring & Pump	1,00,000.00
4	Electrification work	4,54,600.00
5	Add for rain water harvesting system as per detail estimate encosed	28,286.89
	Total	**47,68,503.89**
	Add 3.5% for Work Charge & Contingencies	1,46,496.51
	Add 1% for Land Development	41,856.17
	Grand Total	**49,56,856.57**
	Say Rs.	49.57 Lacs

S/E

E.E.

मुख्य अभियंता
लोक निर्माण विभाग, रायपुर (छ.ग.)

Superintending Engineer
P.W.D. Raipur Circle
RAIPUR (C.G.)

ABSTRACT ESTIMATE OF P.H.C.BUILDING

S.No.	SOR P. No..	Particulars of Item	Qty.	Unit	Rate	Amount
1		Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.				
			275.589	**Cum**	**112.8**	**31086.44**
2	1.6.1	Extra for every additional lift of 1.5 m or part thereof.				
		All types of soil	**68.85**	**Cum**	**15.3**	**1053.41**
3	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.				
			386.31	**Cum**	**316.75**	**122363.69**
4	3.1.3	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work.				
		1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	**66.36**	**Cum**	**2310.85**	**153348.01**
5	3.4.2	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work.				
		1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	**156.36**	**Cum**	3290.9	514565.12
6	3.14.3	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete:	18763.2	Kg	46.8	878117.76
7	4.13	Grading roof for water proofing treatment with				
	4.13.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	31.49	cum	2,998.75	94430.64
8	3.2	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work.				
	3.2.2	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	2.61	cum	2,860.95	7467.08
		Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:				
9	2.1.1	Foundations, footings, base of columns and plinth beam in any shape and size.	569.67	Sqm	73.8	42041.65
10	2.1.6	Columns, Pillars, Piers and likes- rectangular or square in shape	318.75	Sqm	183.5	58490.63
11	2.1.8	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	450.16	Sqm	147.35	66331.08
12	2.1.9	Beams, lintels, cantilevers & walls	309.24	Sqm	136.75	42288.57
13	2.1.14	Weather shade, chhajja, Cornices and mouldings	21.51	Sqm	190.7	4101.96
14	2.1.4	Window sills, anchor blocks, string course, bends, copings, bed plates and like.	26.10	Sqm	138.15	3605.72
15	7.2.1	Brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% in foundation and plinth in:				
		Cement Mortar 1:5 (1 Cement : 5 Coarse Sand)	**143.42**	**Cum**	**2773.95**	397839.91

16	7.9	Half brick thick brick masonry with modular well-burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% in superstructure above plinth level upto floor five level.				
	7.9.2	Cement Mortar 1:4 (1 cement : 4 coarse sand)				
			163.06	**Sqm**	**283.7**	46260.12
17	7.10	Extra for providing and placing in position hopping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry.				
			163.06	Kg	49.05	7998.09
18	3.17	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork.				
			2.88	**Cum**	3321.7	9556.53
19	3.19	Applying a coat of hot bitumen 30/40 using @ 1.7kg/ sqm on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.				
			57.54	**Sqm**	78.85	4537.03
20		Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of I.S 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer.				
	9.13.5	Double rebate 115mmx50mm size, 1.6mm thick sheet				
			290.90	Rm	386.25	112360.13
21		Providing and fixing flush door shutters, interior grade, commercial type, core of block board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges.				
	8.11.2	35 mm. thick (single leaf)				
22	8.13	Extra for double leaf shutter instead of single leaf.	89.37	**Rm**	1620.0	144774.93
			40.65	**Sqm**	35.45	1441.04
23	9.2	Structural steel work riveted or bolted or welded in built-up sections, trusses and frames work upto a height of 5m above plinth level, including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer Window				
			1550.70	Kg	48.05	74511.14
24	9.45.2	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing and panelling to be paid for separately				

		For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately). Window				
			720.00	Kg	290.1	208872.00
25	9.42.2	Providing and fixing 12mm thick Pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass/ stainless steel screws etc. complete.	72.00	**Sqm**	927.5	66780.00
26	9.6	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.	7.20	**Sqm**	2355.95	16962.84
27	11.5	Neat Cement punning.	**441.37**	**Sqm**	25.9	11431.48
28	11.1.2	6mm thick cement plaster of mix:				
		In Cement mortar 1:4 (1 cement : 4 fine sand)	**370.14**	**Sqm**	70.55	26113.38
29	11.2.3	12mm thick cement plaster of mix:				
		In Cement Mortar 1:5 (1 cement : 5 fine sand)	**842.35**	**Sqm**	72.9	61407.32
30	11.3.3	15mm thick cement plaster on the rough side of single or half brick wall of mix:				
		In Cement Mortar 1:5 (1 cement : 5 fine sand)	**754.71**	**Sqm**	84.55	63810.73
31	8.108.1	Providing and fixing M.S. bright finished or black enameled door latch with necessary iron screws:				
	1	300x20x6mm	29.00	Nos	44.35	1286.15
32	8.110	Providing and fixing M.S. bright finished or black enameled Tower bolts (Barrel type) with necessary iron screws:				
	1	250 mm	58.00	Nos	28.7	1664.60
33	8.111	Providing and fixing M.S. bright finished or black enameled handles with necessary iron screws:				
	1	125 mm	58.00	Nos	42.4	2459.20
34	8.112	Providing and fixing M.S. bright finished or black enameled hooks and eyes with necessary iron screws:				
	1	300 mm	58.00	Nos	14.6	846.80
35	12.6	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.				
	12.9		280.58	**Sqm**	532.35	149366.76
36		Providing and laying porcelain floor tiles of size 600x600mm with water absorption's less than 0.5% and conforming to IS : 15622 of approved make , laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete:				
	12.7.1	In all colours except White, Ivory, Grey, Fume Red Brown,	**205.74**	**Sqm**	660.65	135922.13
	12.45	25 mm thick KOTA stone slab flooring over 20mm (average) thick base of cement mortar 1:4 laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including grinding rubbing and polishing etc. complete (Area of slab to be over 0.20 sq.m and upto 0.50 sq.m)				
			132.23	**Sqm**	584.65	77308.27

38	12.46	KOTA stone slab 25mm thick in risers and treads of steps, skirting dado and pillar laid in 12mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. (single stone is to be used for riser and treads of steps and the width of stone for skirting and dado shall be equal to the height of skirting/ dado with a minimum length of 1.0 M.)				
			69.96	**Sqm**	650.1	45481.00
39	13.3	15 mm thick Marble work (machine cut, table rubbed & polished) for kitchen platform, vanity counters, window sills and similar locations of required size laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) including joints treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish.				
	12.35.5	Udaipur green marble				
			27.24	**Sqm**	1403.6	38234.06
40	12.33	Chequerred precast cement concrete tiles 25mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :				
	1	Light shade using white cement				
			23.04	**Sqm**	555.6	12801.02
41	14.10	Providing and applying 2mm thick ready mix exterior grade putty (Birla wall care, Alltek Superfine W/R of (NCL), J.K. wall putty) on walls to make the surface smooth and even.				
			1041.63!	**Sqm**	42.65	44425.52
42	14.5.1	Distempering with acrylic washable distemper to give an even shade.				
		On new work (Two or more coats)	1041.63	**Sqm**	29.75	30988.49
43	14.8.1	Satin synthetic enamel paint (top most approved branded quality)				
			89.37	**Sqm**	46.3	4137.83
44	14.11	Finishing walls with water proofing cement paint to give an even shade.				
	1	On new work (Two or more coats)				
			632.27	**Sqm**	24.95	15775.14
45	19.7.1	Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete:				
		15 mm dia. nominal bore	80	M.	118.75	9500.00
		20 mm dia. nominal bore	40	M.	147.9	5916.00
		25 mm dia. nominal bore	20	M.	197.9	3958.00
46	19.9.1	Providing and laying in trenches G.I. pipes medium class complete with G.I. fittings including excavation of trenches, refilling the same and testing of joints complete:				
		25 mm dia. nominal bore				
		32 mm dia. nominal bore	20	M.	168.25	3365.00
		40 mm dia. nominal bore	40	M.	208.55	8342.00
			80	M.	244.05	19524.00
	19.10	Making connection of G.I. distribution branch in G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete: (Dia of main line to be measured)				
	3	40 mm dia. nominal bore				
			8	Nos	198.8	1590.40
48	19.13	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 400 grams):				
	1	Bib cock				
			20	Nos	230.15	4603.00
49	19.13	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 400 grams):				
	2	Stop cock				
			10	Nos	230.15	2301.50

50	18.1.1	Providing and fixing water closet squatting pan (Indian type W.C. pan), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same colour) conforming to IS : 7231, with flush bend and other fittings and fixtures complete including cutting and making good the walls and floors wherever required :				
		White Long pattern W.C. pan of size 580 mm	6	Nos	2445.95	14675.70
51	18.1.1	Providing and fixing vitreous china water closet (European type W.C. pan) with white ISI marked plastic seat and lid, 10 litre low level white P.V.C. flushing cistern (same colour), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :				
		White pedestal type	3	Nos	2654.35	7963.05
52	18.17	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :				
	1	White Size 630x450 mm	4	Nos	1320.7	5282.80
53	18.22	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug 40mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete including painting of brackets, cutting and making good the wall wherever required :				
	1	Size 450x300x150mm	5	Nos	2263.6	11318.00
54	18.27	Providing and fixing 600x450 mm beveled edge 4mm mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	5	Nos	506.15	2530.75
55	18.30	Providing and fixing sand cast iron S&S pipe as per IS: 1729 for soil, waste and vent pipes.				
	1	100 mm dia.	16	m.	535.15	8562.40
56	20.1.1	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
		100 mm diameter	80	m.	125.95	10076.00
		150 mm diameter	30	m.	210.65	6319.50
57	20.2.1	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design:				
		100 mm diameter S.W. pipe	80	m.	272.8	21824.00
		150 mm diameter S.W. pipe	30	m.	333.6	10008.00
58	20.3.2	Providing and fixing square-mouth S.W. gully trap grade 'A" complete with C.I. grating brick masonry chamber with well burnt modular clay bricks crushing strength not less than 35kg/ cm², water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :				
		150 x 100 mm size P type.	15	Nos	1224.8	18372.00

59	20.6.1	Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/ cm² in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4.8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
		Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :	5	Nos	5771.7	28858.50
60	20.30	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	1	Nos	999	999.00
61	18.30	Providing and fixing sand cast iron S&S pipe as per IS: 1729 for soil, waste and vent pipes:				
	1	100 mm dia.	80	m.	535.15	42812.00
62	19.42	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	5000	Lts.	5.35	26750.00
63	11.32	18 mm thick plain cement mortar band in cement mortar 1:4 (1 cement : 4 fine sand) per cm width:				
	3	Raised Band	83.88	m.	2.35	197.12
64	11.4	Providing and fixing chicken mesh weighting not less than 250 gms/ sqm as per IS : specification in the required width with 10mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.	426.54	**Sqm**	72.95	31116.09
65	9.54	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	15	Kg	380.15	5702.25
					sum	**4147112.43** ✓

Say Rs 41,47200/-

DETAILED ESTIMATE FOR CONST. OF P.H.C.BUILDING

S.No.	S.No.	Particulars of Item	Nos.	L	B	D/H	Qty.	Unit	Rate	Amount
		Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
1	1.1.1	In all types of soil Columns	51	1.5	1.50	2.1	240.975			
		Below Plinth	1	246.6	0.30	0.3	22.194			
		Plinth Protection	1	103.5	0.30	0.4	12.42			
							275.589	Cum	112.8	31086.44
2	1.6.1	Extra for every additional lift of 1.5 m or part thereof.								
		All types of soil	51	1.5	1.50	0.6	68.85	Cum	15.3	1053.41
3	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
			51	1.5	1.50	2.1	240.975			
		P.C.C. DUDCT	51	1.5	1.50	0.15	17.2125			
		R.C.C.of FOOTING	51	1.2	1.20	0.4	29.376			
		R.C.C.of COL.	51	0.2	0.30	1.35	4.131			
		BACK FILLING					190.256			
		Gents Ward	1	5.5	3.50	0.5	9.625			
		Nurses Room	1	3.1	3.50	0.5	5.425			
		Lab	1	3.3	3.50	0.5	5.775			
		Entrance	1	3	4.50	0.5	6.75			
		Registration	2	3.5	4.50	0.5	15.75			
		Immu.+Doctor Room +Office	4	3	3.50	0.5	21			
		General Store +Cold Chain	2	2.1	3.50	0.5	7.35			
		Toilet	2	2.2	3.50	0.5	7.7			
		Corridor	1	27	2.40	0.5	32.4			
		Corridor	1	9.8	2.40	0.5	11.76			
		Waitng	1	6.7	4.70	0.5	15.745			
		OT	1	4	4.5	0.5	9			
		Ladies Ward	1	5.5	3.50	0.5	9.625			
		Toilet	2	1.5	2.10	0.5	3.15			
		Sterilisation	1	3.9	2.10	0.5	4.095			
		Labour Room	1	5.5	4.2	0.5	11.55			
		Toilet +Baby Wash : Dirty	1	7.7	1.5	0.5	5.775			
		Staff Toilet	1	5	1.8	0.5	4.5			
		Dirty	1	1.9	2.10	0.5	1.995			
		Front	1	3.4	2.40	0.5	4.08			
		Ramp	1	5	2.40	0.25	3			
							386.31	Cum	316.75	122362.27

4	3.1.3	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work.										
		1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).										
		Columns Bedding		51	1.5	1.50	0.15	**17.21**				
				1	105.5	0.30	0.15	**4.75**				
				51	0.3	0.30	1	**4.59**				
		Gents Ward		1	5.5	3.50	0.1	**1.93**				
		Nurses Room		1	3.1	3.50	0.1	**1.09**				
		Lab		1	3.3	3.50	0.1	**1.16**				
		Entrance		1	3	4.50	0.1	**1.35**				
		Registration		2	3.5	4.50	0.1	**3.15**				
		Immu.+Doctor Room +Office		4	3	3.50	0.1	**4.20**				
		General Store +Cold Chain		2	2.1	3.50	0.1	**1.47**				
		Toilet		2	2.2	3.50	0.1	**1.54**				
		Corridor		1	27	2.40	0.1	**6.48**				
		Corridor		1	9.8	2.40	0.1	**2.35**				
		Waitng		1	6.7	4.70	0.1	**3.15**				
		OT		1	4	4.5	0.1	**1.80**				
		Ladies Ward		1	5.5	3.50	0.1	**1.93**				
		Toilet		2	1.5	2.10	0.1	**0.63**				
		Sterilisation		1	3.9	2.10	0.1	**0.82**				
		Labour Room		1	5.5	4.2	0.1	**2.31**				
		Toilet +Baby Wash +Dirty		1	7.7	1.5	0.1	**1.16**				
		Staff Toilet		1	5	1.8	0.1	**0.90**				
		Dirty		1	1.9	2.10	0.1	**0.40**				
		Front		1	3.4	2.40	0.1	**0.82**				
		Ramp		1	5	2.40	0.1	**1.20**				
								66.36	**Cum**	**2310.85**	**153348.01**	
5	3.4.2	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work.										
		1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).										
		Columns		51	1.2	1.20	0.4	**29.38**				
		Columns		51	0.3	0.30	5.25	**24.10**				
		Beams		2	287.8	0.40	0.2	**46.05**				
		Lintal Beams Front		1	25.6	0.20	0.2	**1.02**				
		Lintal Beams Back		1	20.4	0.20	0.2	**0.82**				
		Lintal Beams Side		1	13.7	0.20	0.2	**0.55**				
		Lintal Beams		12	1.4	0.20	0.2	**0.67**				
		Lintal Beams		14	1.2	0.20	0.2	**0.67**				
		Lintal Beams		1	3	0.20	0.2	**0.12**				
		Lintal Beams		1	2.2	0.20	0.2	**0.09**				
		Lintal Beams		1	1.6	0.20	0.2	**0.06**				
		Lintal Beams		1	2.4	0.20	0.2	**0.10**				
		Lintal Beams		1	1.5	0.20	0.2	**0.06**				
		Lintal Beams		1	3.7	0.20	0.2	**0.15**				
		Chajja		1	2.8	0.45	0.1	**0.13**				
		Chajja		1	1.5	0.45	0.1	**0.07**				
		Chajja		1	29.6	0.45	0.1	**1.33**				
		Chajja		1	13.9	0.45	0.1	**0.63**				
		Slab		1	31	10.5	0.12	**39.06**				

		Slab		1	10	1.00	0.12	1.20			
		Slab		1	6.7	1.00	0.12	0.80			
		Slab		1	7.7	8.30	0.12	7.67			
		Slab		1	5.5	2.50	0.12	1.65			
								156.36	Cum	3290.9	514566.30
6	3.14.3	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete:	156.36	@		120.00		18763.2	Kg	46.8	878117.76
7	4.13	Grading roof for water proofing treatment with		1	31	10.5	0.075	24.41			
	4.13.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)		1	10	1.00	0.075	0.75			
		Greading		1	6.7	1.00	0.075	0.50			
		Greading		1	7.7	8.30	0.075	4.79			
		Greading		1	5.5	2.50	0.075	1.03			
								31.49	cum	2,998.75	94429.14
8	3.2	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work.		26	1	0.20	0.10	0.52			
	3.2.2	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).		2	104.5	0.1	0.1	2.09			
								2.61	cum	2,860.95	7467.08
		Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:	51	4	1.5	0.50		153.00			
9	2.1.1	Foundations, footings, base of columns and plinth beam in any shape and size.	2	1	103.5	0.15		31.05			
			51	4	1.2	0.40		97.92			
			1	2	287.7	0.40		230.16			
			1	1	287.7	0.20		57.54			
								569.67	Sqm	73.8	42041.65
10	2.1.6	Columns, Pillars, Piers and likes- rectangular or square in shape	2	51	0.3	6.25		191.25			
			2	51	0.2	6.25		127.50			
								318.75	Sqm	183.5	58490.63
11	2.1.8	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	1	1	31	10.5		325.50			
			1	1	10	1.00		10.00			
			1	1	6.7	1.00		6.70			
			1	1	7.7	8.30		63.91			
			1	1	5.5	2.50		13.75			
		P.F.	1	1	3.1	0.60		1.86			
			1	1	6.2	0.60		3.72			
			1	1	4.5	0.60		2.70			
			1	1	14.9	0.60		8.94			
			1	1	4	0.60		2.40			
			1	1	9.7	0.60		5.82			
			1	1	5.4	0.60		3.24			
			1	1	2.7	0.60		1.62			
								450.16	Sqm	147.35	66331.08
12	2.1.9	Beams, lintels, cantilevers & walls	1	2	287.7	0.40		230.16			
			1	1	287.7	0.2		57.54			
			1	1	25.6	0.20		5.12			
			1	1	20.4	0.20		4.08			
			1	1	13.7	0.20		2.74			
			1	12	1.4	0.20		3.36			
			1	14	1.2	0.20		3.36			
			1	1	3	0.20		0.60			

			1	1	2.2	0.20		0.44			
			1	1	1.6	0.20		0.32			
			1	1	2.4	0.20		0.48			
			1	1	1.5	0.20		0.30			
			1	1	3.7	0.20		0.74			
								309.24	Sqm	136.75	42288.57
13	2.1.14	Weather shade, chhajja, Cornices and mouldings									
		Chajja	1	1	2.8	0.45		1.26			
		Chajja	1	1	1.5	0.45		0.68			
		Chajja	1	1	29.6	0.45		13.32			
		Chajja	1	1	13.9	0.45		6.26			
								21.51	Sqm	190.7	4101.96
14	2.1.4	Window sills, anchor blocks, string course, bends, copings, bed plates and like.	2	26	1	0.10		5.20			
			1	2	104.5	0.10		20.90			
								26.10	Sqm	138.15	3605.72
15	7.2.1	Brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% in foundation and plinth in:									
		Cement Mortar 1:5 (1 Cement : 5 Coarse Sand)									
		Long Wall		1	30.7	3.60	0.2	22.10			
		L/R Side		2	18.2	3.60	0.2	26.21			
		Back		1	35.4	3.60	0.2	25.49			
		Intermidat Wall		6	3.3	3.60	0.2	14.26			
		Intermidat Wall		6	4.3	3.60	0.2	18.58			
		Store+Toilet		2	1.9	3.60	0.2	2.74			
		Corridore		1	30.7	3.60	0.2	22.10			
		Corridore		1	10.8	3.60	0.2	7.78			
		Corridore		2	2.4	3.60	0.2	3.46			
		Ladies Toilet		1	5.3	3.60	0.2	3.82			
		Ward + Lab		3	5.3	3.60	0.2	11.45			
		Miner OT		1	3.8	3.60	0.2	2.74			
		Labour Toilet		1	2.7	3.60	0.2	1.94			
								162.65			
		Dudction Front Ent.		1	3	2.40	0.2	1.44			
		Grill		1	1.5	1.50	0.2	0.45			
		Grill		1	1.5	2.40	0.2	0.72			
		Grill		1	5.7	1.20	0.2	1.37			
		Grill		1	3.5	1.20	0.2	0.84			
		Window		26	1.00	1.2	0.2	6.24			
		D		1	1.80	2.1	0.2	0.76			
		D-1		1	1.50	2.1	0.2	0.63			
		D-2		1	1.20	2.1	0.2	0.50			
		D-3		7	1.00	2.1	0.2	2.94			
		D-4		6	0.80	2.1	0.2	2.02			
		V		15	0.60	0.4	0.2	0.72			
		Columns		50	0.30	0.2	0.2	0.60			
								19.22			
								143.42	Cum	2773.95	3978.40/-
16	7.9	Half brick thick brick masonry with modular well-burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% in superstructure above plinth level upto floor five level.									
	7.9.2	Cement Mortar 1:4 (1 cement : 4 coarse sand)									
		Ladies / Gents Toilet		3	1.8	3.60		19.44			
		Ladies / Gents Toilet		2	2.2	3.60		15.84			

		Ladies / Gents Toilet		2	1.5	3.60		10.80			
		Ladies / Gents Ward Toilet		2	2.1	3.60		15.12			
		Labour		2	1.5	3.60		10.80			
		Parapet		1	104.5	1.00		104.50			
		Dudction						**176.50**			
		D-4		8	0.8	2.10		13.44			
								163.06	**Sqm**	**283.7**	46260.12
17	7.10	Extra for providing and placing in position hopping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry.						**163.06**	Kg	49.05	7998.09
18	3.17	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork.									
				1	287.7	0.20	0.05	2.88	**Cum**	3321.7	9556.53
19	3.19	Applying a coat of hot bitumen 30/40 using @ 1.7kg/ sqm on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.									
				1	287.7	0.20		57.54	**Sqm**	78.85	4537.03
20		Providing and fixing in position doors. windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of I.S 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer.									
	9.13.5	Double rebate 115mmx50mm size, 1.6mm thick sheet									
		D		1	1.8	2.10	2.1	6.00			
		D-1		1	1.5	2.10	2.1	5.70			
		D-2		1	1.2	2.10	2.1	5.40			
		D-3		12	1	2.10	2.1	62.40			
		D-4		14	0.8	2.10	2.1	70.00			
		W		26	2	1.00	1.2	114.40			
		V		15	2	0.60	0.3	27.00			
								290.90	Rm	386.25	112360.13
21	8.11.2	Providing and fixing flush door shutters, interior grade, commercial type, core of block board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges. 35 mm. thick (single leaf) D		1	1.8	2.10		3.78			
		D-1		1	1.5	2.10		3.15			
		D-2		1	1.2	2.10		2.52			
		D-3		12	1	2.10		25.20			
		D-4		14	0.8	2.10		23.52			
		W		26	1.2	1.00		31.20			
								89.37	**Sqm**	1619.95	144774.93

22	8.13	Extra for double leaf shutter instead of single leaf.		1	1.8	2.10		3.78			
		D-1		1	1.5	2.10		3.15			
		D-2		1	1.2	2.10		2.52			
		W		26	1.2	1.00		31.20			
								40.65	Sqm	35.45	1441.04
23	9.2	Structural steel work riveted or bolted or welded in built-up sections, trusses and frames work upto a height of 5m above plinth level, including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer . Window									
		Ventilater		26	1.2	1.00		31.20			
		W		15	0.4	0.60		3.60			
		Grill		1	5.7	1.20		6.84			
		Grill		1	1.5	1.50		2.25			
		Grill		1	2.4	1.50		3.60			
		Grill		1	3.5	1.20		4.20			
								51.69			
				51.69		@	30	1550.70	Kg	48.05	74511.14
24	9.45.2	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing and panelling to be paid for separately									
		For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately). Window									
		Partision Wall		2	5.7	3.00		34.20			
		Partision Wall		2	3.1	3.00		18.60			
		Dirty.		1	2.1	3.00		6.30			
		Dirty.		1	1.9	3.00		5.70			
		Entrence		1	2.4	3.00		7.20			
								72.00			
				72		@	10	720.00	Kg	290.1	208872.00
25	9.42.2	Providing and fixing 12mm thick Pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass/ stainless steel screws etc. complete.									
		Partision Wall		2	5.7	3.00		34.20			
		Partision Wall		2	3.1	3.00		18.60			
		Dirty.		1	2.1	3.00		6.30			
		Dirty.		1	1.9	3.00		5.70			
		Entrence		1	2.4	3.00		7.20			
								72.00	Sqm	927.5	66780.00

26	9.6	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.		1	3	2.40		7.20	Sqm	2355	≤	16962.84
27	11.5	Neat Cement punning.		1	2.8	0.45		1.26				
		Chajja		1	1.5	0.45		0.68				
		Chajja		1	29.6	0.45		13.32				
		Chajja		1	13.9	0.45		6.26				
		SLAB		1	31	10.5		325.50				
		SLAB		1	10	1.00		10.00				
		SLAB		1	6.7	1.00		6.70				
		SLAB		1	7.7	8.30		63.91				
		SLAB		1	5.5	2.50		13.75				
								441.37	Sqm	25.9		11431.48
28	11.1.2	6mm thick cement plaster of mix:										
		In Cement mortar 1:4 (1 cement : 4 fine sand)										
		Gents Ward		1	5.5	3.50		19.25				
		Nurses Room		1	3.1	3.50		10.85				
		Lab		1	3.3	3.50		11.55				
		Entrance		1	3	4.50		13.50				
		Waitng		1	6.7	4.70		31.49				
		Doctor Room		2	3	3.50		21.00				
		Immu.		2	3	3.50		21.00				
		Cold Chain		2	2.1	3.50		14.70				
		Ladies Toilet		2	2.2	3.50		15.40				
		Corridor		1	24.3	2.40		58.32				
		Corridor		1	12	2.40		28.80				
		Gents Toilet		1	1.8	2.10		3.78				
		Dirty		1	3.9	2.10		8.19				
		OT		1	4.5	4.00		18.00				
		Ladies Ward		1	5.5	3.50		19.25				
		Toilet		1	2.1	1.20		2.52				
		Sterilisation		1	2.1	3.90		8.19				
		Labour Room		1	5.5	4.20		23.10				
		Toilet +Baby Wash +Dirty		1	7.4	1.50		11.10				
		Staff Toilet		1	4.8	1.80		8.64				
		Chajja	1	1	2.8	0.45		1.26				
		Chajja	1	1	1.5	0.45		0.68				
		Chajja	1	1	29.6	0.45		13.32				
		Chajja	1	1	13.9	0.45		6.26				
								370.14	Sqm	70.55		26113.38
29	11.2.3	12mm thick cement plaster of mix:										
		In Cement Mortar 1:5 (1 cement : 5 fine sand)										
		Outer Side		1	104.5	4.90		512.05				
		Lab		1	3.3	3.30		10.89				
		Ragi.		1	3.5	3.30		11.55				
		Intermidat Wall		6	3.5	3.30		69.30				
		Intermidat Wall		6	4.5	3.30		89.10				
		Toilet		1	3.6	3.30		11.88				
		Nurses Room		1	3.1	3.30		10.23				
		Ladies Ward		1	3.5	3.30		11.55				
		Cold Chain +Store		2	2.1	3.30		13.86				

		Toilet	2	1.5	3.30		9.90						
		Toilet	4	2.2	3.30		29.04						
		OT	1	4	3.30		13.20						
		Toilet + Dirt.	3	1.5	3.30		14.85						
		Toilet + Dirt.	1	5.1	3.30		16.83						
		Toilet +Ster.	2	1.5	3.30		9.90						
		Labour Room	1	4.2	3.30		13.86						
		Toilet	3	2.5	3.30		24.75						
		Corridor to Toilet	1	4.9	3.30		16.17						
							888.91						
		Dudction Front Ent.	1	3	2.40		7.20						
		Grill	1	1.5	1.50		2.25						
		Grill	1	1.5	2.40		3.60						
		Grill	1	5.7	1.20		6.84						
		Grill	1	3.5	1.20		4.20						
		Window	26	1.00	1.2		31.20						
		D	1	1.80	2.1		3.78						
		D-1	1	1.50	2.1		3.15						
		D-2	1	1.20	2.1		2.52						
		D-3	7	1.00	2.1		14.70						
		D-4	6	0.80	2.1		10.08						
		V	15	0.60	0.4		3.60						
						(-)	**93.12**						
							842.35	**Sqm**	72.9	61407.32			
30	11.3.3	15mm thick cement plaster on the rough side of single or half brick wall of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand)											
		Lab	1	98.7	3.30		325.71						
		Ragi.	1	98.7	1.00		98.70						
		Intermidat Wall	1	3.3	3.30		10.89						
		Intermidat Wall	1	3.5	3.30		11.55						
		Toilet	6	3.5	3.30		69.30						
		Nurses Room	6	4.5	3.30		89.10						
		Ladies Ward	1	3.6	3.30		11.88						
		Cold Chain +Store	1	3.1	3.30		10.23						
		Toilet	1	3.5	3.30		11.55						
		Toilet	2	2.1	3.30		13.86						
		OT	2	1.5	3.30		9.90						
		Toilet + Dirt.	4	2.2	3.30		29.04						
		Toilet + Dirt.	1	4	3.30		13.20						
		Toilet +Ster.	3	1.5	3.30		14.85						
		Labour Room	1	5.1	3.30		16.83						
		Toilet	2	1.5	3.30		9.90						
		Corridor to Toilet	1	4.2	3.30		13.86						
			3	2.5	3.30		24.75						
			1	4.9	3.30		16.17						
							801.27						
		Dudction Front Ent.	1	3	2.40		7.20						
		Grill	1	1.5	1.50		2.25						
		Grill	1	1.5	2.40		3.60						
		Grill	1	5.7	1.20		6.84						
		Grill	1	3.5	1.20		4.20						
		Window	26	1.00	1.2		31.20						
		D	1	1.80	2.1		3.78						
		D-1	1	1.50	2.1		3.15						
		D-2	1	1.20	2.1		2.52						
		D-3	7	1.00	2.1		14.70						

		D-4		6	0.80	2.1		10.08			
		V		15	0.60	0.4		3.60			
								93.12			
								754.71	Sqm	84.55	63810.73
31	8.108.	Providing and fixing M.S. bright finished or black enameled door latch with necessary iron screws:									
	1	300x20x6mm		29				29.00	Nos	44.35	1286.15
32	8.110	Providing and fixing M.S. bright finished or black enameled Tower bolts (Barrel type) with necessary iron screws:									
	1	250 mm	2	29				58.00	Nos	28.7	1664.60
33	8.111	Providing and fixing M.S. bright finished or black enameled handles with necessary iron screws:									
	1	125 mm	2	29				58.00	Nos	42.4	2459.20
34	8.112	Providing and fixing M.S. bright finished or black enameled hooks and eyes with necessary iron screws:									
	1	300 mm	2	29				58.00	Nos	14.6	846.80
35	12.6	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.									
		Nurses Room		1	13.2	1.20		15.84			
		Cold Chain + Store		2	10.3	0.10		2.06			
		Gents Ward		1	13.2	1.20		15.84			
		Gents Ward		4	1.6	0.10		0.64			
		Lab		1	12.7	1.20		15.24			
		Lab		2	1.6	0.10		0.32			
		Ragi.		1	15.1	1.20		18.12			
		Ragi.		2	1.6	0.10		0.32			
		Doctor Room		4	6.5	1.20		31.20			
		Doctor Room		8	1.6	0.10		1.28			
		OT		1	16.2	1.50		24.30			
		OT		2	1.6	0.10		0.32			
		Gents / Ledies Toilet		1	6.6	1.50		9.90			
		Dirty		1	4	1.20		4.80			
		Ladies Ward		1	16.4	1.20		19.68			
		Ladies Ward		3	1.6	0.10		0.48			
		Sterilisation		1	11.2	1.20		13.44			
		Toilet		1	7.8	1.50		11.70			
		Dirty		1	7.2	1.50		10.80			
		W.C.		1	6.8	1.50		10.20			
		Ladies Toilet		1	8	1.50		12.00			
		W.C.		1	6.6	1.50		9.90			
		Gents Toilet		1	8	1.50		12.00			
		W.C.		4	4.5	1.50		27.00			
		Staff Toilet		2	6.6	1.50		19.80			
								287.18			
		Dudction		22	1	0.30		6.60			
								280.58	Sqm	532.35	149366.76

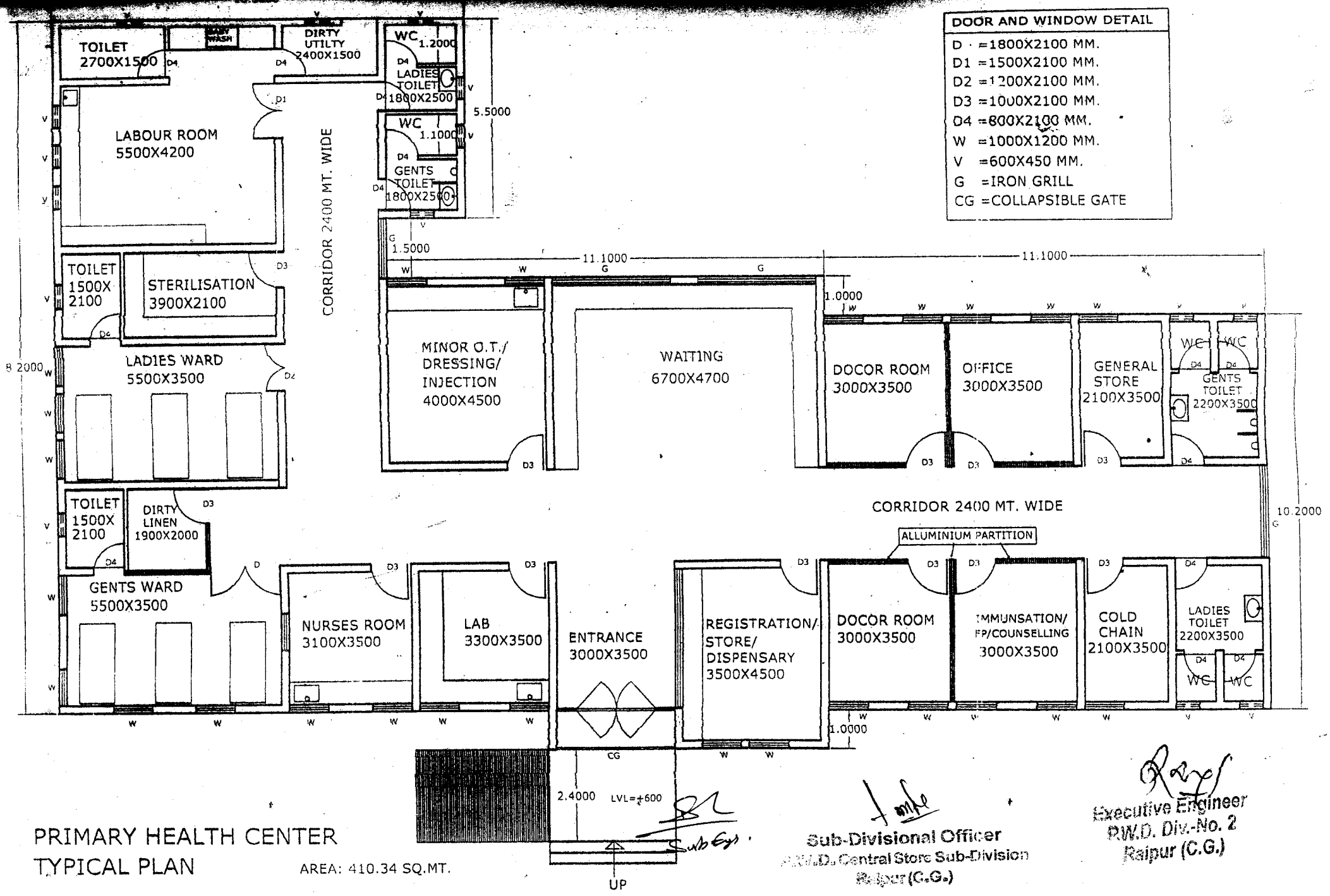
36	12.0	Providing and laying porcelain floor tiles of size 600x600mm with water absorption's less than 0.5% and conforming to IS : 15622 of approved make , laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete:								
	12.7.1	In all colours except White, Ivory, Grey, Fume Red Brown,								
		Gents Ward		1	5.5	3.50	19.25			
		Gents Ward		1	1.8	0.20	0.36			
		Lab		1	3.5	3.30	11.55			
		Lab		1	1	0.20	0.20			
		Ragi.		1	3.5	4.50	15.75			
		Ragi.		1	1	0.20	0.20			
		Doctor Room		4	3	3.50	42.00			
		Doctor Room		4	1	0.20	0.80			
		OT		1	4	4.50	18.00			
		OT		1	1	0.20	0.20			
		Gents / Ledies Toilet		2	2.2	3.50	15.40			
		Gents / Ledies Toilet		2	0.8	0.20	0.32			
		Ladies Ward		1	3.5	5.50	19.25			
		Ladies Ward		1	1.2	0.20	0.24			
		Gents / Ledies Toilet		2	1.5	2.10	6.30			
		Gents / Ledies Toilet		2	0.8	0.20	0.32			
		Sterilisation		1	3.9	2.10	8.19			
		Sterilisation		1	0.8	0.20	0.16			
		Labour Room		1	5.5	4.20	23.10			
		Labour Room		1	1.5	0.20	0.30			
		Toilet to Dirty		1	7.2	1.50	10.80			
		Toilet to Dirty		2	0.8	0.2	0.32			
		Toilet		1	4.9	2.50	12.25			
		Toilet		3	0.8	0.2	0.48			
							205.74	Sqm	660.65	135922.13
37	12.45	25 mm thick KOTA stone slab flooring over 20mm (average) thick base of cement mortar 1:4 laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including grinding rubbing and polishing etc. complete (Area of slab to be over 0.20 sq.m and upto 0.50 sq.m)								
		Enterance		1	3	4.50	13.5			
		Waiting		1	6.7	4.70	31.49			
		Corridor		1	24.6	2.40	59.04			
		Corridor		1	10	2.40	24			
		Corridor		1	2	2.10	4.2			
							132.23	Sqm	584.65	77308.27
38	12.46	KOTA stone slab 25mm thick in risers and treads of steps, skirting dado and pillar laid in 12mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. (single stone is to be used for riser and treads of steps and the width of stone for skirting and dado shall be equal to the height of skirting/ dado with a minimum length of 1.0 M.)								
		Enterance		1	9	1.20	10.8			
		Waiting		1	16.1	1.20	19.32			
		Waiting		1	5.7	0.10	0.57			

		Corridor		1	34.8	1.20		41.76			
		Corridor		1	3.9	0.10		0.39			
								72.84			
		Dudction		1	5.7	0.30		1.71			
				1	3.9	0.30		1.17			
								2.88			
								69.96	Sqm	650.1	45481.00
39	12.35	15 mm thick Marble work (machine cut, table rubbed & polished) for kitchen platform, vanity counters, window sills and similar locations of required size laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) including joints treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish.									
	12.35.5	Udaipur green marble									
		Nurses Room		1	3.1	0.60		1.86			
		Lab.		1	6.2	0.60		3.72			
		Ragi.		1	4.5	0.60		2.7			
		Waiting		1	14.9	0.60		8.94			
		O.T.		1	4	0.60		2.4			
		Sterilisation		1	5.4	0.60		3.24			
		Labour Room		1	7.3	0.60		4.38			
								27.24	Sqm	1521.3	38234.01
40	12.33	Chequerred precast cement concrete tiles 25mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :		1	2.4	1.20		2.88			
	1	Light shade using white cement Stair		1	3.4	2.40		8.16			
		Ramp		1	5	2.40		12			
								23.04	Sqm	555.6	12801.02
41	14.10	Providing and applying 2mm thick ready mix exterior grade putty (Birla wall care, Alltek Superfine W/R of (NCL), J.K. wall putty) on walls to make the surface smooth and even.	Total Plaster					1967.2			
			Outer Side			Dudct		610.75			
			Dado			Dudct		293.30			
			Chajja			Dudct		21.52			
								1041.63	Sqm	42.65	44425.52
42	14.5.1	Distempering with acrylic washable distemper to give an even shade.									
		On new work (Two or more coats)	As Per Wall Putty					1041.63	Sqm	29.75	30988.49
43	14.8.1	Satin synthetic enamel paint (top most approved branded quality)									
		Window		26	1.00	1.2		31.2			
		D		1	1.80	2.1		3.78			
		D-1		1	1.50	2.1		3.15			
		D-2		1	1.20	2.1		2.52			
		D-3		12	1.00	2.1		25.2			
		D-4		14	0.80	2.1		23.52			
								89.37	Sqm	46.3	4137.83
44	14.11	Finishing walls with water proofing cement paint to give an even shade.	Outer Side					610.75			
	1	On new work (Two or more coats)	Chajja					21.52			

								632.27	Sqm	24.95	15775.14
45	19.7.1	Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete:									
		15 mm dia. nominal bore						80	M.	118.75	9500.00
		20 mm dia. nominal bore						40	M.	147.9	5916.00
		25 mm dia. nominal bore						20	M.	197.9	3958.00
46	19.9.1	Providing and laying in trenches G.I. pipes medium class complete with G.I. fittings including excavation of trenches, refilling the same and testing of joints complete:									
		25 mm dia. nominal bore						20	M.	168.25	3365
		32 mm dia. nominal bore						40	M.	208.55	8342.00
		40 mm dia. nominal bore						80	M.	244.05	19524
47	19.10	Making connection of G.I. distribution branch in G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete: (Dia of main line to be measured)									
	3	40 mm dia. nominal bore						8	Nos	198.8	1590.40
48	19.13	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 400 grams):									
	1	Bib cock						20	Nos	230.15	4603.00
49	19.13	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 400 grams):									
	2	Stop cock						10	Nos	230.15	2301.50
50	18.1.1	Providing and fixing water closet squatting pan (Indian type W.C. pan), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same colour) conforming to IS : 7231, with flush bend and other fittings and fixtures complete including cutting and making good the walls and floors wherever required :								2445.95	
		White Long pattern W.C. pan of size 580 mm						6	Nos		14675.70
51	18.4.1	Providing and fixing vitreous china water closet (European type W.C. pan) with white ISI marked plastic seat and lid, 10 litre low level white P.V.C. flushing cistern (same colour), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :									
		White pedestal type						3	Nos	2654.35	7963.05
52	18.17	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :									
	1	White Size 630x450 mm						4	Nos	1320.7	5282.80

53	18.22	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug 40mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete including painting of brackets, cutting and making good the wall wherever required :							5	Nos	2263.6	11318.00
	1	Size 450x300x150mm										
54	18.27	Providing and fixing 600x450 mm beveled edge 4mm mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.							5	Nos	506.15	2530.75
55	18.30	Providing and fixing sand cast iron S&S pipe as per IS: 1729 for soil, waste and vent pipes:							16	m.	535.15	8562.40
	1	100 mm dia.										
56	20.1.1	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :										
		100 mm diameter							80	m.	125.95	10076.00
		150 mm diameter							30	m.	210.65	6320.00
57	20.2.1	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design:										
		100 mm diameter S.W. pipe							80	m.	272.8	21824.00
		150 mm diameter S.W. pipe							30	m.	333.6	10008.00
58	20.3.2	Providing and fixing square-mouth S.W. gully trap grade 'A" complete with C.I. grating brick masonry chamber with well burnt modular clay bricks crushing strength not less than 35kg/ cm², water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :							15	Nos	1224.8	18372.00
		150 x 100 mm size P type.										

59	20.6.1	Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/ cm^2 in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :										
		Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :						5	Nos	5771.7	28858.50
60	20.30	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.						1	Nos.	999	999.00
61	18.30	Providing and fixing sand cast iron S&S pipe as per IS: 1729 for soil, waste and vent pipes:									
	1	100 mm dia.						80	m.	535.15	42812.00
62	19.42	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.						5000	Lts.	5.35	26750.00
63	11.32	18 mm thick plain cement mortar band in cement mortar 1:4 (1 cement : 4 fine sand) per cm width:									
	3	Raised Band		54	1.4	2.00	0.45	68.04			
				8	2.2	2.00	0.45	15.84			
								83.88	m.	2.35	197.12
64	11.4	Providing and fixing chicken mesh weighting not less than 250 gms/ sqm as per IS : specification in the required width with 10mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.		4	246	0.30		295.2			
				4	51	0.30		61.2			
				60	1.8	0.30		32.4			
				74	1.7	0.30		37.74			
								426.54	Sqm	72.95	31116.09
65	9.54	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.			15	@	1	15	Kg	380.15	5702.25



PRIMARY HEALTH CENTER
TYPICAL PLAN

AREA: 410.34 SQ.MT.

Sub-Divisional Officer
P.W.D. Central Store Sub-Division
Raipur (C.G.)

Executive Engineer
P.W.D. Div.-No. 2
Raipur (C.G.)

Detailed Estimate for Construction of Septic Tank

Sr.No. Item No.	Particular of Item		Measurments No	L	W	H	Qty	Unit	Rate	Amount
1 1.1.1	Excavation in all ltypes of soils for all types and sizes of foundations drains including disposal of excavated stuff upto 50m lead and lift upto 1.50 m including dressing and levelling of pits and disposed stuff as directed by Engineer-in-Charge.		1	2.80	1.40	2.00	7.84			
			1	2.80	1.70	0.50	2.38			
			1	2.80	1.70	1.00	4.76			
			Total				14.98	cum	112.80	1690.00
2 1.6.1	Extra for every additional lift of 1.5 m or part thereof. All types of soil		1	2.80	1.40	0.50	1.96	cum	15.30	30.00
3 3.1.3	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).		1	2.80	1.70	0.15	0.714	cum	2310.85	1650.00
4 3.2.1	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	Levelin g	1	2.80	1.70	0.08	0.381			
			1	1.70	0.30	0.05	0.026			
			2	2.50	0.30	0.05	0.075			
			Total				0.481	cum	2385.95	1148.00
5 3.4.2	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	Septick tank	1	2.80	1.70	0.20	0.952			
		Side tank	2	2.80	0.10	1.00	0.560			
			2	1.50	0.10	1.00	0.300			
		Side filling	2	2.80	0.20	1.05	1.176			
			2	1.30	0.20	1.05	0.546			
			Qty of Hard soil				-7.760			
		Side filling out side	2	2.80	0.01	0.10	0.006			
			2	1.70	0.60	0.15	0.306			
			Total				0.088	cum	3290.90	290.00

Sr.No. Item No.	Particular of Item		Measurments No	L	W	H	Qty	Unit	Rate	Amount
6 7.2.1	Brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% in foundation and plinth in: Cement Mortar 1:5 (1 Cement : 5 Coarse Sand)		2	2.60	0.30	1.00	1.560			
			2	0.90	0.30	1.00	0.540			
			2	2.40	0.20	0.50	0.480			
			2	0.90	0.20	0.50	0.180			
			2	2.40	0.20	1.35	1.296			
			2	0.90	0.20	1.35	0.486			
			Total				4.542	cum	2552.30	11593.00
7 7.5.1	Extra for brick work in superstructure: Above plinth and upto floor five level.		2	0.90	0.20	1.05	0.378			
			2	0.90	0.20	1.35	0.486			
			Total				0.864	cum	2773.95	2396.00
8 11.1.2	6mm thick cement plaster of mix: In Cement mortar 1:4 (1 cement : 4 fine sand)	Slab	2	2.40	0.20		0.960			
			2	0.09			0.180			
			Total				1.140	Sqm	70.55	80.00
10 11.2.4	12mm thick cement plaster of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand)		2	2.00		2.85	11.400			
			2	0.90		2.85	5.130			
			1	2.00	0.90		1.800			
			Total				18.330	Sqm	68.40	1254.00
11 11.3.4	15mm thick cement plaster on the rough side of single or half brick wall of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand)		2	2.40		0.50	2.400			
			2	1.30		0.50	1.300			
			Total				3.700	Sqm	79.20	293.00
12 3.18	Providing and mixing water proofing material in PCC/ RCC work in the proportion recommended by the manufacturer.		Qty same as Item No. 10				18.330	Kg	32.70	599.00
13 1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.		Qty same as Item No. 1				4.760	cum	38.15	182.00

Sr.No. Item No.	Particular of Item		Measurments No	L	W	H	Qty	Unit	Rate	Amount
14 3.4.1	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work. 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	Slab	1	2.40	1.30	0.10	0.312			
		Ded main hole	-1	0.45	0.60		-0.270			
		Precast main hole	1	0.50	0.60	0.05	0.015			
			Total				0.300	cum	2910.90	873.00
15 2.1.8	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	Roof	1	2.00	0.90		1.800			
		Side	2	2.40		0.10	0.480			
			2	1.30		0.10	0.260			
		Ded main hole	1	0.45	-0.60		-0.270			
		Side	2	1.05	0.10		0.210			
			Total				2.480	Sqm	147.35	365.00
16 3.14.3	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete: Cold twisted bar / Hot rolled deformed steel		50Kg/cum of R.C.C. 50x0.30 cum				15.000	Kg	41.85	628.00
17 9.2	Structural steel work riveted or bolted or welded in built-up sections, trusses and frames work upto a height of 5m above plinth level, including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.	Main hole frame	2	0.45			0.90			
			2	0.60			1.20			
			Total				2.100			
			2.10@3.80 kg				7.980	Kg	48.05	383.00
18 20.30	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.		1				1.000	Each	999.00	999.00

Sr.No. Item No.	Particular of Item	Measurments				Qty	Unit	Rate	Amount
		No	L	W	H				
21 18.31.1	Providing and fixing M.S holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cuting holes and making good the walls etc. : For 100 mm dia pipe	1	3.00			3.000	Each	83.75	251.00
20 18.30.1	Providing and fixing sand cast iron S&S pipe as per IS: 1729 for soil, waste and vent pipes: 100 mm dia.		3.00			3.000	Rm	535.15	1605.00
21 18.33.1	Providing and fixing sand cast iron S&S plain bend of required degree as per IS : 1729: 100 mm dia		2.00			2.000	Each	282.25	565.00
22 20.6.1	Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/ cm² in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg):		2.00			2.000	Each	5771.70	11543.00
								TOTAL Rs.	38417
								Say Rs.	0.38Lakh

EXECUTIVE ENGINEES
P.W.D. Division No. 2
Raipur (C. G.)

O.W. ESTIMATE/TENDER SCHEDULE/FOR ELECTRIFICATION TOPHC Bldgs at Harpada Distt. Deoria.

S.No.	Description	Unit	Rate	Qty.	Amount
1	2	3	4	5	6
	WIRING IN SURFACE RIGID PVC CONDUIT SYSTEM				
1.	Wiring with 1.5 Sqmm. Copper conductor. Point wiring with PVC insulated cable with copper conductor ISI marked in surface rigid PVC non-metalic conduit of suitable size ISI marked as required as per specification for.				
1.1	Light points/Ex Fan Points				
	(a) Short Point	Each	107.00	10 Nos	1070=00
	(b) Medium Point	,,	181.00	18 Nos	3258=00
	(c) Long Point	,,	288.00	30 Nos.	8640=00
1.2	Ceiling fan Point				
	(a) Short Point	Each	120.00	—	
	(b) Medium Point	,,	201.00	5 Nos	1005=00
	(c) Long Point	,,	278.00	8 Nos	2224=00
1.3	3 Pin 5 Amp scoket out let point on seprate board.				
	(a) Short Point	Each	97.00	—	
	(b) Medium Point	,,	184.00	—	
	(c) Long Point	,,	283.00	10 Nos.	2830=00
1.4	Call - bell / Buzzer Point				
	(a) Short Point	Each	91.00	—	
	(b) Medium Point	,,	181.00	—	
	(c) Long Point	,,	258.00	5 Nos.	1290=00
1.5	3 Pin 5 Amp scoket out let point on seprate board.	,,	48.00	13 Nos	624=00
1.6	Wiring for circuit wiring with PVC in sulated cable with copper conductor ISI markd in surface rigid PVC non-metalic conduit ISI market of suitable size as required. As per specification.				

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Rs. 20941=00

BFRS- 20941=00

S.No.	Description	Unit	Rate	Qty.	Amount
3.7	(a) 2 Wirex 2.5 Squmn.	P. Mtr.	36.00	155mtr	5580=00
	(b) 4 Wirex 2.5 Squmn.	,,	51.00	85mtr	4335=00
	(c) 6 Wirex 0.25 Squmn.	,,	67.00	68mtr	4556=00
	(d) 8 Wirex 2.5 Squmn.	,,	91.00	39mtr	3549=00
3.1	Point Wiring for 3 Pin 15 Amp Socket outlet point the 4 Sq. mm. PVC insulated cable with copper conductor ISI marked 15 Amp F.T. Switchetc. suitalle size o the rigid PVC nonmetalic ocudut ISI marked inclding 5.0 Sqmm. earth continuity conductor in surface conduit wiring system as per specification (on saprate board).				
	(a) Short Point	Each	182.00	—	
	(b) Medium Point	,,	301.00	—	
	(c) Long Point	,,	441.00	2Nos	882=00
	(d) Extra long-I	,,	636.00	5Nos	3180=00
	(e) Extra Long-II	,,	836.00	3Nos	2508=00
	(f) Extra Longh-III	,,	1039.00	1No.	1039=00
8.	Wiring for sub main with PVC insulated cable with solid/stxanded copper condctor ISI marked in surface rigid non-metelic conduit of suitabl size inclding connection.				
8.1	2 WIRE SUB MAINS				
	(a) 2.5 Sq. mm. cable in 20 mm PVC conduit.	Per Mtr	29.00		
	(b) 4 Sq. mm. cable in 20 mm PVC conduit.	Per Mtr	35.00		
	(c) 6 Sq. mm cable in 20 mm PVC conduit.	Per Mtr	55.00		
	(d) 2.5 Sq. mm. cable in 20 mm PVC conduit.	Per Mtr	71.00		
8.3	4 WIRE SUB MAIN				
	(a) 2.5 Sq. mm. cable in 20 mm PVC conduit.	Per Mtr	44.00		

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CIfRS - 46570=00

BfRs- 46570=00

S.No.	Description	Unit	Rate	Qty.	Amount
	(b) 4 Sq. mm. cable in 20 mm PVC conduit.	Per Mtr.	65.00	—	
	(c) 6 Sq. mm. cable in 20 mm PVC conduit.	Per Mtr.	88.00	—	
	(d) 10 Sq. mm. cable in 20 mm PVC conduit.	Per Mtr.	119.00	5Mtr	595=00
11.1	Supplying and fixing of ISI marked iron clade/ metal clade double pole switch fuses conduit entry cable gland entry with two earth terminals including fixing on wall with required size flate iron clamp with necessary material comlete. As required.				
11.1.1	16 Amp. 250 Volts	Each	279.00	—	
11.1.2	32 Amp. 250 Volts	Each	684.00	—	
11.3	Supplying and fixing of ISI marked iron clade/ metal clade triple pole neutral switch fuses conduit/entry/cable gland entry with two earth terminals includ ing fixing on wall with required size flate/angle iron clamp with necessary material comlete. I. C. connection etc. as required.				
11.3.1	16 Amp. 415/500 Volts.	Each	876.00	—	
11.3.2	32 Amp. 415/500 Volts.	Each	1183.00	1 No	1183=00
11.3.3	63 Amp. 415/500 Volts.	Each	2413.00	1 No	2413=00
11.3.4	100 Amp. 415/500 Volts.	Each	4417.00	—	
11.3.5	200 Amp. 415/500 Volts.	Each	6618.00	—	
11.10	Supply and fixing of ISI marked porce lain rewirebl fuse unit of approved make or confirming to ISS-2086-1982 includ ing fixing on wooden board with neces sary material complete.				
11.10.2	16 Amp. 415 Volts. or Amp. 240 Volts	Each	65.00		
11.10.3	32 Amp. 415 Volts.	Each	86.00		
11.10.4	63 Amp. 415 Volts.	Each	~~153.00~~ 158=00	3 Nos	474=00

CIfRs- 51235=00

BfRs - 51235=00

S.No.	Description	Unit	Rate	Qty.	Amount
11.10.5	100 Amp. 415 Volts.	Each	288.00	(	
11.10.6	200 Amp. 415 Volts.	Each	621.00	)	
12.	Supplyin and fixing of metal cluded busbar chamber madeof 16 mm thich CRCA sheet complete strips busbar & including fixing with necessary materi als complete as required.				
	(a) 32 Amp 500 Volts 4 way	Each	761.00	(	
	(b) 63 Amp 500 Volts 4 way	,,	829.00	)	
	(c) 100 Amp 500 Volts 4 way	,,	1305.00		
	(d) 200 Amp 500 Volts 4 way	,,	1588.00		
13.2	Supplying and fixing of ISI marked of accepted standard of miniatur circuit breaker, suitable to 240/415 Volts 50 cycle (7,5 to 10 KA Value) AC supply but without inclusers.				
	(i) Single Pole-				
	(ii) 6 Amp to 32 Amp rating	Each	150.00	24 Nos	3600=00
	(iii) for 40 Amp Rating only	,,	227.00	—	
13.4	Supply and fixing of approved make accepted stnderd sheet steel encloser power pointed ditributino board neutral, earth bar and the isolator of capacity as required etc. complet as and including fixing on sur face/recessed type with necessory ma terial complete.				
A,	SINGLE PHASE AND NEUTRAL D. B. ENCLOSER WITH 40 AMP ISOLATOR				
	i) 1 to 4 No. MCB with 40 Amp. Isolator.	Each	736.00	(	
	ii) 5 to 8 No. MCB with	,,	815.00	)	
	iii) 9 to 12 No. MCB with..				

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CIfRs - 54835=00

Bfrs. 54835=00

S.No.	Description	Unit	Rate	Qty.	Amount
13.4	B) FOR THERE PHASE & NEUTRAL D.B ENCLOSER WITH 40 TO 80 AMP ISOLATOR.				
	i) Upto 4 No. MCB Per Pole	Each	1513.00	2 Nos	3026=00
	ii) For 5 to 6 No. MCB Per Pole	Each	1650.00	—	
13.6	Supply and fixing of approved makeplug socket D.B. (without SP MCB) S.P.N. Sheet encloser inclusive of 2 Pole and earth to incorporate S.P. MCB complete as per specification.				
	B) 20 Amp.	Each	741.00	—	
14.2	Supply and fixing per Specification batten/angle holer of approved make with necessary material compete.	Each	14.00	17 Nos	238=00
14.3	Supply and fixing as per specification Call-bell/ buzzer of approved make with necessary material complete.				
	(a) 230 Volt A.C. Ordinary	Each	45.00	3 Nos	135=00
	(b) 230 Volt A.C. Delux	Each	67.00	2 No.	134=00
10.	Supplyin fixing and testion of approved make bulk head pressure as required with necessary material complete.	Each	286.00	—	
14.6	Supply and fixing in positio incondescent /flouresent lamp/hosv/ matal/helide lamp of approved make.				
	(d) 60 Walt 250 Volts 36 watt CFL	Each → ,, —	14.00 449.00	— 17 Nos	7633=00
	(e) 100 Volt 250 Volts	Each	18.00		
	(I) 40 Walt x 4' Flouresent tube rod.	Each	42.00	31 Nos	1302=00
	(d) 250 Walt ~~HPSV~~ MH- Lamp	Each	~~875.00~~ 2141.00	4 Nos	8564=00
14.7	Supply and fixing as per specification socket outlet. F.T. of material complete.				
	(a) 5 Amp 250 Volts 5 pin flush type	Each	13.00	23 Nos	299=00
	(b) 15 Amp 250 Volts 5 pin flush type	,,	31.00	12 Nos	372=00

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cfrs- 76538=00

Bfrs - 76538=00

S.No.	Description	Unit	Rate	Qty.	Amount
15.1	Fixing of flourescent bulbe fitting on wall celing with necessary material in cluding connnection etc. complete as required	Each	29.00	—	
15.3	Supply and fixing fan clamps of 16 mm dia steel bar as per specification complate.				
	(b) For R.C.C. slabs/beams	Each	12.00	—	
15.5	Erection of ceiling/cabin fan in position including witing fixing regulator testing etc. as required.				
	(a) Regulator on wooden boards	Each	20.00	/	
	(b) Regulator on M.S. boards	Each	26.00		
15.13	Fixing of youse service meter suitable size of wooden board with necessary material and connection testing per specification.				
	(a) Single phase meter	Each	42.00	—	
	(b) Three phase meter	Each	46.00	1 No.	46=00
18.16	Providing and fixing 4.00 mm wire on surface or in racessed for loop eatrhing as required.	P.Mtr.	12.00	60 mtr	720=00
18.17	—do— Copperwire	—11—	36/—	45 mtr	1620=00
18.35	Providing and fixing earthing arrange ment with 38.1 mm dia 2.5 mtr. Long G.I. Pipe electrode including packing of charcoal powder and salt as per specifi cation water pipe etc. 19mm dia G.I. connection etc. complete with refilling the pit as requir a but excluding the ex cavation of earth pit.	Each	426.00	—	
18.36	Supply and laying G.I./earth lead duly installed on wall or in G.I. Pipe including connection etc. complete as required.				
	i) 25 sq. mm. (5.6 mm dia)	P. Mtr.	10.00	20 mtr	200=00
	ii) 40 mm (7.1 mm dia)	P. Mtr.	13.00	—	

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Cffrs - 79124=00

BfRs- 79124=00

S.No.	Description	Unit	Rate	Qty.	Amount
18.38 .53	Providing and laying earth continuity of 4 Sq. mm. ~~Alu.~~ copper conductor or along the run of that final sub circuit in PVC con duit in an approved manner.	P.Mtr.	~~230~~ 17.00	255 mtr	4335=00
18.40	Earthing with G.I. Pipe 40 mm dia one meter long intrconnecticted with 19/2C mm G.I. Pipe on meter long welded to gether in tripot formation with reducer funnel chek nut brick masonery enclosed on top cover box (30x30x6mm) having looking arrangment etc. as required.	Each	1542.00	2 Nos	3084=00
19.1	Earth work in all soil except soft rock. hard rock including all lead and 1.5 meter lift with dressing refilling exca vated soil in trench/pit to ground level.	Cum.	30.00	6 Cum	180=00
1.	Supply of PVC insulated heavy duty Power cable (confirming IS-1554-1964) 1100 Volt grad-2 core, 3 core 3,5 core, 5 core ISI marked with Alu.Staded solid conductor.				
	(B) ARMOURED 2 CORE				
	i) 6 Sq. mm.	P.M	87.00	75Mtr	6525=00
	ii) 4 Sq.mm.	P.M	76.00	—	
	iii) 10 Sq. mm.	P.M	98.00	—	
	iv) 16 Sq. mm.	P.M	117.00	—	
	(H) ARMOUDED 4 CORE				
	i) 6 Sq. mm.	P.M	110.00	/	
	ii) 10 Sq. mm.	P.M	129.00		
	iii) 16 Sq. mm.	P.M	159.00	65Mtr	10335=00
	iv) 25 Sq. mm.	P.M	193.00	45Mtr	8685=00
	v) 35 Sq. mm.	P.M	229.00	/	
	vi) 50 Sq. mm.	P.M	290.00	/	
10/43	Supply and intalling G.I. Pipe for pro tection of under ground cable earthing lightening, conductor serice line/for in an approved manner as to required to complete.				

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CHRS—1,12,268=00

Bfrs 112,268=00

S.No.	Description	Unit	Rate	Qty.	Amount
10.1	For 'B'-Class pipe ISI marked (IS-1161-68				
10.1.1	12.7 mm	P.Mtr.	72.00	4mtr	288=00
10.1.2	19.00 mm	"	86.00		
10.1.3	25.00 mm	"	111.00		
10.1.4	32.00 mm	"	139.00		
10.1.5	38.1 mm	"	154.00	3mtr	462=00
12'21'1	4 cor cable upto 10 Sq. mm.	..	15.00		
12'21'2	3.5 core cable 25 25 sq. mm. 120 sqm	"	22.00	45mtr	990=00
14	Supplying and installing (overhead) service main with PVC insulated cable supended on existing, bearer wire in an approved manner as per specification with bobininsulator etc.&including connection testing etc.				
	(A) Alu. Stranded two wire (Single core.)				
	2. 2.5 Sq. mm.	P.Mtr.	9.00		
	3. 4.0 Sq. mm.	P.Mtr.	10.00		
	(c) Four wise (Single core.)				
	(1) 4 Sq. mm.	"	24.00		
	(2) 6 Sq. mm.	"	30.00		
	(3) 10 Sq. mm.	"	39.00		
	(4) 16 Sq. mm.	P.Mtr.	55.00		
39	Supplying and erection of 75 mm by 90 mm shackle insulator with G.I Bolte, nuts ano straps etc as required.	Each	20.00		
54.	Supplying and fixing of 32 mm diax2mtr. Long G.1 pipe bracket amounting flourescent street light fitting etc. as required.	Each	309.00	—	
12.1	Laying of one number PVC insulated and pve sheathed powercable of 1.1 kv grade of size not exceeding 25 sq. mm. dirct in ground including excavation sand custinging protective covering and refilling the pit etc as required	P. Mtr.	72.00	—	
12.17	Laying and fixing of one number pvc insu lated and pvc shethed Alu. conduc tor cable of 11 kv grade of size not exceeding 25 sq. mm. on surface etc as required.	P. Mtr.	22.00	75 mtr	1650=00

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Clfrs - 1,15,658=00

B/FRs- 1,15658=00

S.No.	Description of Item	Unit	Rate	Qty.	Amount
1.	Supplying erection and testing of approved make electric celling fan of double ball bearing complete with stan dard down rod, canopy hanging shackle, blades, and Speed regulator AC 230-250 volts including connection with all nec essary material completeteas.				
	i) 1200 mm. sweep	Each	1430.00	—	
	ii) 1400 mm. sweep	Each	1515.00	13 Nos	19695=00
4.	Spplying erectin and testing of approved make fresh air fan A.C 230-250 volts with connection and including frame bolt/anchor fastner etc. complete fin ished as required.				
	i) 300 mm. sweep	Each	1326.00	2 Nos	2652=00
5.	Spplying erectin and testing of approved make Exthaust fan 'A'C. 230-250 volts with connection and including frame boolt/anchor fastner etc. complete fin ished as required.	Each			
	i) 300 mm. sweep 900 RPM.	,,	2418.00	4 Nos	9672=00
	i) 380 mm. sweep 900 RPM.	,,	2938.00	—	
6.	Supplying fixing and testing of approved make flourecent tube fitting box type with copper wooden polyster holder, startef, without tube rod) as per specifica tion. a) 1x40 watt.				
	i) Fixing on wall / ceiling & other necessary including connection etc. as required.	Each	514.00	27 Nos	13878=00
	ii) Fixing by stiff pendant of steel conduitinclu-ding conneection and as reguired.	Each	624.00	—	
9.	Supplying fixing and testing of approved make street/light fitting complete with copper choke, holder, starter, without tub rod including fixing & connection in cluding fixing & connection including all materials as required.				
	1. 1x40 watt.	Each	1456.00	4 Nos	5824=00

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C/FRs — 1,67,379=00

Sub Engineer (E. & M.)
P.W.D. DURG (C. G.)

Sub-Divisional Officer
E/M. Sub-Dn. P. W. D.
DURG (C. G.)

BfRs- 167379=00

S.No.	Description	Unit	Rate	Qty.	Amount
7.	Supplying, fixing and testing of ap proved make surface mounting mirror opticluminaries for 40 watt fluorescent lamp compeising complete with all ac cessories i.e.copper wound polyster choke, lamp holder, starter holder with tubrod with cross lovvers as per louvers per specification and fixing.				
	1. Fixing on wall/ceilling and other necessary material including con nection etc. as Required	Each	2113.00	—	
	2 x 40 watt				
	2. Fixing by stiff pendant arrange ment with two piece with steel con duit19/20 mm dia 16 swg and other necessary materials including material as required.	Each	2223.00	—	
	b. 2 x 40 watt				
8.15	Supplying fixing and testing of approved make of H.P. ~~sodiem vapour~~ Metal Helide side road lightnig main road lighting lantern con sisting of single piece cost alu minium housing complete with all accesorios suitable and including fixing with 31/38 mm GI pipe (with out lamp to the shape and connection all material as required & suitable for.- 250 watt MH	Each	5681=00	4 Nos	22724=00
	Add water tube well Boring providing fitting Submercible pump installation of 20 watt Board Testing & Trial			Rs.	190103=00
		Each	3042.00	Rs.	100000=00
	(2) 150 watt	Each	4884.00	Rs.	290103=00
	Add S.T. & C. & Contigency Charges			Rs.	14505=15
	(3) 250 watt	Each	5356.00		
	E.S.E.B Service Connection Charges			Rs.	150000=00
			Total	Rs.	454608=15
				Say Rs-	454600=00

Sub Engineer (E. & M.)
P.W.D. DURG (C. G.)

Sub-Divisional Officer
E/M. Sub-Dn. P. W. D,
DURG (C. G.)

Details Estimate of Rain Water Harvesting System for P.H.C. Building, → Distt.-Raipur(C.G.)

Abstract

Sl. No.	S.R. No. P.No.	Particulars	Quantity	Unit	Rate	Amount
1	2	3	4	5	6	7
1	21.9	Drilling of perfectly vertical bore hole of following diameter for construction of Gravel Packed tube well up to desired depth in alluvial formation consisting of Soil Clays, Sand, Gravel, Moorum, Boulders etc. and retaining the bore hole by using suitable drilling mud or foam or temporary housing including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete.				
	21.9.1	350 mm dia	9.00	metre	429.00	3861.00
2	21.11	Providing and fixing of M.S. bail plug as per. I.S. 2800 (PART-I) 1991 in the bottom of casing assembly				
	21.11.1	150 mm dia	1.00	each	250.00	250.00
3	21.10	Providing assembling, centering and lowering of properly designed casing pipe assembly inside the bore hole drilled for construction of gravel packed tube well including the cost of providing and fixing of centraliser, and transportation of casing assembly etc. complete.				
	21.10.1	Casing assembly composed of 150 mm diameter blank and slotted G.I. casing pipes.	11.80	metre	1004.00	11847.20
4	21.12	Providing gravel packing with uniformly graded gravel as per IS: 4097 of 1967 with up to date amendments in the annular space between outer wall of casing pipe assembly and inner wall of bore hole including cost of gravel, transportation, stacking, washing and packing in layers of suitable thickness including all lead and lifts complete.	1.83	cum	570.00	1041.39
5	1.1/8	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.				
	1.1.1	In all types of soil	9.14	cum	112.80	1030.70
6	7.3	Brick work with non-modular well burnt (open bhatta) clay bricks of crushing strength not less than 20 kg/sqcm and water absorption not more than 25% in foundation and plinth in:				
	7.3.1	Cement Mortar 1:6 (1 Cement : 6 Coarse Sand)	1.19	cum	2112.15	2521.27
7	2.1	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:				
	2.1.1	Foundations, footings, base of columns and plinth beam in any shape and size.	2.25	sqm	73.80	166.05

8	3.4	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work.				
	3.4.2	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	0.77	cum	3290.90	2528.46
9	3.14	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete:				
	3.14.3	Cold twisted bar / Hot rolled deformed steel	92.40	Kg	41.85	3866.94
10	371	Stone for filling work	1.15	cum	600.00	690.00
11	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.	1.13	cum	316.75	357.93
12	20.1	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
	20.1.1	100 mm diameter	1.00	metre	125.95	125.95
				Total		28286.89

Sub- Engr.

Sub Divisional Officer
P.W.D. Sub Division No-4
Raipur (C.G.)

Executive Engineer
PWD Division No-2, Raipur (C.G.)

Details Estimate of Rain water Harvesting System for P.H.C.Building Distt.-Raipur(C.G.)

Details

S No	Item No	Description	No	L	B	D	Quantity
1	2	3	4	5	6	7	8
1	21.9	Drilling of perfectly vertical bore hole of following diameter for construction of Gravel Packed tube well up to desired depth in alluvial formation consisting of Soil Clays, Sand, Gravel, Moorum, Boulders etc. and retaining the bore hole by using suitable drilling mud or foam or temporary housing including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete.					
	21.9.1	350 mm dia	1	9.00			9.00 metre
2	21.11	Providing and fixing of M.S. bail plug as per. I.S. 2800 (PART-I) 1991 in the bottom of casing assembly					
	21.11.1	150 mm dia	1				1.00 each
3	21.1	Providing assembling, centering and lowering of properly designed casing pipe assembly inside the bore hole drilled for construction of gravel packed tube well including the cost of providing and fixing of centraliser, and transportation of casing assembly etc. complete.					
	21.10.1	Casing assembly composed of 150 mm diameter blank and slotted G.I. casing pipes.	1	11.80			11.80 metre
4	21.12	Providing gravel packing with uniformly graded gravel as per IS: 4097 of 1967 with up to date amendments in the annular space between outer wall of casing pipe assembly and inner wall of bore hole including cost of gravel, transportation, stacking, washing and packing in layers of suitable thickness including all lead and lifts complete.					
			1	9.00	(0.096-0.0180)		0.70
			1	1.50	1.50	0.50	1.13
							1.83 cum
5	1.1/8	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.					
	1.1.1	In all types of soil					
			1	1.50	1.50	1.50	3.38
			1	1.96	1.96	1.50	5.76
							9.14 cum

6	7.3	Brick work with non-modular well burnt (open bhatta) clay bricks of crushing strength not less than 20 kg/sqcm and water absorption not more than 25% in foundation and plinth in:						
	7.3.1	Cement Mortar 1:6 (1 Cement : 6 Coarse Sand)						
		lw	1	1.96	0.23	1.50	0.68	
		sw	1	1.50	0.23	1.50	0.52	
							1.19	cum
7	2.1	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:						
	2.1.1	Foundations, footings, base of columns and plinth beam in any shape and size.	1	1.50	1.50		2.25	sqm
8	3.4	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work.						
	3.4.2	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	1	1.96	1.96	0.20	0.77	cum
9	3.14	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete:						
	3.14.3	Cold twisted bar / Hot rolled deformed steel		3.23@120 Kg/cum			92.40	Kg
10	371	Stone for filling work	1	1.50	1.50	0.50	1.13	
			1	0.50	0.50	0.10	0.03	
							1.15	cum
11	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.						
			1	1.50	1.50	0.50	1.13	cum
12	20.1	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :						
	20.1.1	100 mm diameter	1	1.20			1.20	metre

Sub- Engr.

Sub Divisional Officer
P.W.D. Sub Division No.-4
Raipur (C.G.)

गणना प्रमाण-पत्र

प्रमाणित किया जाता है कि प्राथमिक स्वास्थ्य केंद्र भवन का मानक प्राक्कलन संलग्न मानचित्र के अनुसार बनाया गया है। [redacted] की गणना भवन एस. ओ.आर., दिनॉक 01.06.2009 के अनुसार की गई है।

अनुविभागीय अधिकारी
लोक निर्माण विभाग, सेंटल स्टोर उपसंभाग
रायपुर (छ.ग.)

कार्यपालन अभियंता
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रायपुर (छ.ग.)