GOVERNMENT OF CHHATTISGARH

PUBLIC WORKS DEPARTMENT

DETAILED STANDARD ESTIMATE

FOR CONSTRUCTION OF

HEALTH SUB CENTRE BUILDING

ESTIMATED COST - 22.92 LAC'S

DIVISION No.-2

PUBLIC WORK DEPARTMENT

RAIPUR (C.G.)

REPORT AND SPECIFICATION

1 NAME OF WORK : Detailed Standard Estimate For Construction Of HEALTH SUB CENTER.

2 AMOUNT OF ESTIMATE : Rs 22.92 acs.

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 HEALTH SUB CENTER Building. As there is no SHC Building at this place, hence it is required to construct the building.

5 PLINTH AREA : G.F. - 83.52 sqm,
F.F. - 83.52sqm,
S.F. -16.02sqm,
Open covered area - 26.1sqm

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 Masonery in C.M. 1:5

Door & Window : Door frames of pressed steel profile and door shutters of 35 mm thick flush door.
Window frames of pressed steel with pressed steel shutter.

Slab : R.C.C. Roof slab 12 mm thick 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

Flooring : Ceramic (Porcelain) tile flooring in HEATH SUB CENTRE and IT flooring in residence area except toilet.

White wash, Colour wash & Painting :
Outer side of Building- Cement Paint.
Inner side of Building – Distemper over putty base.

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.

6 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.

Water Harvesting → Rain water harvesting system is provided in the estimate.

Sub-Engineer

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

Executive Engineer
PWD, Division No.-2,
Raipur

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

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

GENERAL ABSTRACT

S.No.	Sub Head	Amount in Rs.
1	Construction of Sub-Centre Building	20,12,000.00
2	Construction of Septic Tank	38,417.00
3	Electrification work	1,20,700.00
4	Add for rain water harvesting system as per detail estimate encosed	28,286.89
	Total	21,99,403.89
	Add 3.5% for Work Charge & Contingencies	71,764.60
	Add 1% for Land Development	20,504.17
	Grand Total	22,91,672.66
	Say Rs.	22.92 Lacs

Superintending Engineer
P.W.D. Raipur Circle 1
RAIPUR (C.G.)

Detailed standard estimate for the construction of Sub health centre.

Abstract

S. No.	SOR P/I.No.	Particular's of Items	Qty	Rate	Unit	Amount
1	1.1.1	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.				
		In all types of soil	77.80	112.8	Cum	8775.8
2	1.6.1	Extra for every additional lift of 1.5 m or part thereof.	18.36	15.3	Cum	280.9
		All types of soil				
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).	18.00	2310.85	Cum	41595.3
4	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).	68.09	3290.9	Cum	224077.4
5	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	7489.66	46.8	Kg	350516.0
6	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.	85.59	316.75	Cum	27110.6
7	2.1	Providing and fixing formwork including centering,				
	2.1.1	Foundations, footings, base of columns and plinth beam in any shape and size.	89.34	73.8	Sqm	6593.3
	2.1.9	Beams, lintels, cantilevers & walls	182.99	136.75	Sqm	25023.3
	2.1.6	Columns, Pillars, Piers and likes- rectangular or square in shape	141.36	183.5	Sqm	25939.6

S. No.	SOR P/I.No.	Particular's of Items	Qty	Rate	Unit	Amount
	2.1.8	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	180.04	147.35	Sqm	26528.9
	2.1.14	Weather shade, chhajja, Cornices and mouldings	55.08	190.7	Sqm	10503.8
	2.1.6	Stair cases of all types ex/c spiral and folded plate type in/c risers and landings	32.51	163.8	Sqm	5324.8
8	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)	9.21	2552.3	Cum	23506.7
	7.5.1	Above Plinth and upto floor five level	59.47	2773.95	Cum	164966.8
9	7.9.2	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.				
		Cement Mortar 1:4 (1 cement : 4 coarse sand)	159.32	283.7	Sqm	45199.1
10	7.1o	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.	159.32	49.05	Sqm	7814.6
11	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.	0.59	3321.7	Cum	1959.0
12	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.	48.3	78.85	Sqm	3808.5
13	11.2.3	mm thick cement plaster of mix:				
		Cement Mortar 1:5 (1 cement : 5 fine sand)	421.88	72.9	Sqm	30755.0
14	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)	502.14	84.55	Sqm	42455.9

S. No.	SOR P/I.No.	Particular's of Items	Qty	Rate	Unit	Amount
15	9.13.2	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.				
		Single rebate 80mmx50mm size 1.6mm thick sheet	255.8	386.25	Rm	98802.8
16	9.14	Providing and fixing in position door shutter made of rectangular hollow steel tube of size 30x20mmx1.6mm joint mitred, welded frame with two Nos. intermediate rails, 200mm wide lock rail made of 1.6mm thick M.S. sheet welded to intermediate rail, M S. grill of approved pattern made of M.S. flat or square are round bars welded to frames and provided M.S. butt hinges, all necessary fitting and finished by filling putty including applying a priming coat of red oxide zinc chromate primer all complete.	25.8	81.25	Sqm	2096.3
17	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)	35.69	1619.95	Sqm	57816.0
18	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).	136.8	290.1	Kg	39685.7

S. No.	SOR P/I.No.	Particular's of Items	Qty	Rate	Unit	Amount
19	9.48.1	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. With decorative lamination on one side and balancing lamination on other side.	10.08	814.00	Sqm	8205.1
20	9.1	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc including applying a priming coat of red oxide zinc chromate primer.	2467.5	60.7	Kg	149777.3
21	11.5	Neat Cement punning.	116.12	25.9	Sqm	3007.5
22	11.1.2	6mm thick cement plaster of mix: In Cement mortar 1:4 (1 cement : 4 fine sand)	171.08	70.55	Sqm	12069.7
23	8.107.1	Providing and fixing M.S. bright finished or black enameled door sliding door bolts withbolts, nuts and necessary iron screws: 300x16mm	17	64.35	Each	1094.0
24	8.108.1	Providing and fixing M.S. bright finished or black enameled door latch with necessary iron screws: 300x20x6mm	17	44.35	Each	754.0
25	8.110.	Providing and fixing M.S. bright finished or black enameled Tower bolts (Barrel type) with necessary iron screws:				
	8.110.1	250 mm	17	28.70	Each	487.9
	8.110.4	100 mm	47	13.70	Each	643.9
26	8.111	Providing and fixing M.S. bright finished or black enameled handles with necessary iron screws:				
	8.111.1	125 mm	34	42.40	Each	1441.6
	8.111.2	100 mm	94	37.65	Each	3539.1
27	8.131	Providing and fixing aluminium door mounted door stopper with necessary nickle plated iron screws etc complete. 100 mm long	17	44.3	Each	753.1
28	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.	123.69	532.35	Sqm	65846.4

S. No.	SOR P/I.No.	Particular's of Items	Qty	Rate	Unit	Amount
29	12.9	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.	94.31	660.65	Sqm	62305.9
30	12.2.2	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement.				
		50 mm thick	73.88	197.25	Sqm	14572.8
31	12.35.5	15mm thick Marble stone slab in, tread & risers of steps, skirting, dado, walls and pillars on 12mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) and jointed with grey cement slurry including matching pigment, rubbing and polishing etc. complete. (single stone is to be used for risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m).				
		Udaipur green marble	4.55	1403.6	Sqm	6386.4
32	6.25	Providing and fixing both side polished 30 mm thick RAJIM SAND STONE shelves fixed in walls in cement mortar 1:3 (1 cement : 3 coarse sand) including finishing complete	10.26	289.55	Sqm	2970.8
33	12.32.1	Chequerred terrazzo tiles 25 mm thick with graded marble chips of size upto 6mm in floors on 25mm thick bed of cement mortar 1:6 (1 cement : 6 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of tiles including grinding rubbing and polishing complete.				
		Light shade using white cement	48.72	621.15	Sqm	30262.4
34	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.	459.31	42.65	Sqm	19589.6
35	14.5.1	Distempering with acrylic washable distemper to give an even shade.				
		On new work (Two or more coats)	459.31	29.75	Sqm	13664.5
36	14.18.1	Painting on new work (two or more coats) to give an even shade with:				
		Satin synthetic enamel paint (top most approved branded quality)	194.88	46.3	Sqm	9022.9
37	14.11.1	Finishing walls with water proofing cement paint to give an even shade.				
		On new work (Two or more coats)	420.33	24.95	Sqm	10487.2

S. No.	SOR P/I.No.	Particular's of Items	Qty	Rate	Unit	Amount
38	4.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of WC, kitchen and the like consisting of: i) 1st course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 including rounding off junction of vertical and horizontal surface. ii) 2nd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound including rounding off junction of vertical and horizontal surface. iii) 3rd course of applying blown or residual bitumen applied hot @ 1.7 Kg. per sqm of area. iv) 4th course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg. per sqm of area.	35.28	275 35	Sqm	9714.3
39	4.13.1	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	3.79	2998.8	Sqm	11368 5
40	9.3.1	Steel work in tubular structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer. Hot finished welded tubes	463.2	65.85	Kg	30501 7
41	9.4	Extra for hoisting trusses and placing in position over height above 5m for every 2.5 m height or part thereof	463.2	2.1	Kg	972 7
42	10.13	Providing asbestos cement 6mm thick corrugated or semi corrugated sheets roofing fixed with galvanized J or L hooks, bolts and nuts 8mm dia G.I. plain bitumen washers complete excluding the cost of purlins, rafters and trusses.	50.02	335.65	Sqm	16789 2
43	19.7	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:				
	19.7 1	15 mm dia. nominal bore	20	118.75	Rm	2375.0
	19.7.2	20 mm dia. nominal bore	60	147.9	Rm	8874.0
44	19.9	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:				

S. No.	SOR P/I.No.	Particular's of Items	Qty	Rate	Unit	Amount
53	18.74	Providing and fixing on wall face UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
	18.74.1	75 mm dia pipe.	30	121.15	Rm	3634.5
	18.74.2	110 mm dia pipe.	30	234.4	Rm	7032.0
54	18.75	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
	18.75.1	Coupler				
	18.75.1.1	75 mm	10	65.55	Nos	655.5
	18.75.1.2	110 mm	10	90.55	Nos	905.5
	18.75.2	Single tee with door				
	18.75.2.2	110x110x110 mm	10	196.75	Nos	1967.5
	18.75.5	Plain bend				
	18.75.5.1	75 mm bend	10	146.75	Nos.	1467.5
	18.75.5.2	110 mm bend	10	183.45	Nos.	1834.5
	18.75.6.2	Vent covel				
		110 mm	5	32.8	Nos	164.0
55	20.1.2	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 :				
		150 mm diameter	20	210·65	Nos.	4213·0
56	20.2.2	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:				
		150 mm diameter S.W. pipe	20	333.6	Nos.	6672.0
57	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/ cm^2, 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	1224 8	Nos.	18372.0

S. No.	SOR P/I.No.	Particular's of Items	Qty	Rate	Unit	Amount
	19.9.3	25 mm dia. nominal bore	10	168.2	Rm	1682.0
45	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)				
	19.10.1	25 mm nominal bore	5	149.15	Nos.	745.8
46	19.13.1	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 400 grams):				
		Bib cock	5	230.15	Nos	1150.8
47	19.13.2	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 400 grams):				
		Stop cock	15	230.15	Nos	3452.3
48	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	4	2445.95	Nos	9783.8
49	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	1	2654.35	Nos.	2654.4
50	18.17.1	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :				
		White Size 630x450 mm	2	1320.7	Nos.	2641.4
51	18.22.2	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 :				
		Size 600x450x200mm	1	4123.05	Nos	4123.1
52	18.21.2	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink without drain board as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required				
		610x460 mm bowl depth 200 mm	2	5584.55	Nos	11169.1

S. No.	SOR P/I.No.	Particular's of Items	Qty	Rate	Unit	Amount
58	20.27.1	Providing and constructing brick masonry chamber for underground C.I. inspection chamber and bends with well burnt modular clay bricks crushing strength not less than 35kg/cm² in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design : Inside dimensions 455x610 mm and 45 cm deep for single pipe line :	4	3519.95	Nos.	14079.8
59	20.29	Providing and constructing soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with well burnt modular clay bricks crushing strength not less than 35kg/cm² and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design	2	11007.85	Nos.	22015.7
60	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.	2000	5.35	Ltr	10700.0
61	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.	22.08	2355.95	Sqm	52019.4
62	L.S	Boring & pump				60,000.00
				Say Rs.		2011748.6 2012000/-

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

Detailed standard estimate for the construction of Sub health centre.

Detailed

S. No.	SOR P/I.No.	Particular's of Items	Measurement No.	L.	B.	H.	Qty.
1	1.1.1	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.					
		In all types of soil					
		Footing F1	8	1.50	1.80	2.10	45.36
		Footing F2	4	1.50	1.50	2.10	18.90
		For G.B	4	8.70	0.30	0.30	3.13
			2	9.60	0.30	0.30	1.73
			4	3.20	0.20	0.30	0.77
			2	1.20	0.20	0.30	0.14
			1	3.50	0.20	0.30	0.21
			3	2.40	0.20	0.30	0.43
		Plinth protection	1	10.00	0.30	0.40	1.20
			2	10.80	0.30	0.40	2.59
		Step	1	3.00	1.00	0.30	0.90
			1	1.20	1.00	0.30	0.36
		Ramp	1	1.20	2.00	0.30	0.72
		Plateform	2	3.00	0.30	0.30	0.54
			1	9.00	0.30	0.30	0.81
							77.80
2	1.6.1	Extra for every additional lift of 1.5 m or part thereof.					
		All types of soil					
		Footing F1	8	1.50	1.80	0.60	12.96
		Footing F2	4	1.50	1.50	0.60	5.40
							18.36
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).					
		Footing F1	8	1.50	1.80	0.15	3.24
		Footing F2	4	1.50	1.50	0.15	1.35
		For G.B	4	8.70	0.30	0.10	1.04
			2	9.60	0.30	0.10	0.58
			4	3.20	0.20	0.10	0.26
			2	1.20	0.20	0.10	0.05
			1	3.50	0.20	0.10	0.07
			3	2.40	0.20	0.10	0.14
		Plinth protection	1	10.00	0.30	0.10	0.30

S. No.	SOR P/I.No.	Particular's of Items	Measurement				Qty.
			No.	L.	B.	H.	
			2	10.80	0.30	0.10	0.65
		Step	1	3.00	1.00	0.15	0.45
			1	1.20	1.00	0.15	0.18
		Ramp	1	1.20	2.00	0.15	0.36
		Rooms Labour room	1	3.20	5.80	0.10	1.86
		Toilet	1	1.20	1.80	0.10	0.22
			1	1.90	2.40	0.10	0.46
			1	1.20	0.50	0.10	0.06
		Ward	1	3.70	3.20	0.10	1.18
		Toilet	1	1.20	1.20	0.10	0.14
		Toilet	1	1.20	1.90	0.10	0.23
		Stair Portion	1	5.00	2.40	0.10	1.20
		Clinic	1	3.20	3.20	0.10	1.02
		waiting	1	2.20	3.20	0.10	0.70
		MWP (M)	1	2.70	3.20	0.10	0.86
		Ramp	1	1.10	2.00	0.10	0.22
		Front Plateform	2	3.00	0.30	0.10	0.18
			1	9.00	0.30	0.10	0.27
			1	2.60	2.80	0.10	0.73
							18.00
4	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).					
		Footing F1	8	1.50	1.80	0.20	4.32
		Trapezoidal portion	5/6((1.50x1.80)+(0.40x0.60)+(4x1				2.94
		Footing F2	4	1.50	1.50	0.20	1.80
		Trapezoidal portion	5/6((1.50x1.50)+(0.40x0.50)+(4x1				1.22
		Column upto plinth level C1	8	0.20	0.40	9.9	6.34
		Column upto plinth level C2	4	0.20	0.30	9.9	2.38
		Column mumty stairl C1	2	0.20	0.40	1.3	0.21
		Column mumty stairl C2	2	0.20	0.30	1.8	0.22
		Plinth beam horizontal Axis					
		Plinth beam PB1	3	4.20	0.20	0.40	1.01
			1	4.80	0.20	0.40	0.38
		Plinth beam PB2	3	3.40	0.20	0.30	0.61
			1	2.80	0.20	0.30	0.17
		Plinth beam PB3	2	1.20	0.10	0.30	0.07
			1	3.50	0.10	0.30	0.11
		Plinth beam Vertical Axis					
		Plinth beam PB2	4	3.20	0.20	0.30	0.77
			1	2.40	0.20	0.30	0.14
		Plinth beam PB1	1	2.40	0.20	0.40	0.19
		Plinth beam PB3	4	3.20	0.10	0.30	0.38
			3	2.40	0.10	0.30	0.22
		Column from PB to G.F slab top C1	8	0.20	0.40	3.60	2.30
			4	0.20	0.30	3.60	0.86
		Lintel beams for first and second floor					
		Lintel beamL1	2x2	8.70	0.20	0.30	2.09
			2x2	9.60	0.20	0.30	2.30

S. No.	SOR P/I.No.	Particular's of Items	Measurement No.	L.	B.	H.	Qty.
		Chajja	2x2	8.70	0.60	0.10	2.09
			2x2	10.8	0.6	0.10	2.59
		Ground Floor Lintel beamL2	1	1.2	0.20	0.20	0.05
			2	3.4	0.20	0.20	0.27
			1	4.2	0.20	0.20	0.17
		Lintel beamL3	4	3.2	0.10	0.20	0.26
			3	2.4	0.10	0.20	0.14
			1	3.5	0.10	0.20	0.07
			2	1.2	0.10	0.20	0.05
		First Floor Lintel beamL2	2	3.4	0.20	0.20	0.27
			2	4.2	0.20	0.20	0.34
		Lintel beamL3	1	1.4	0.10	0.20	0.03
			1	1.8	0.10	0.20	0.04
			4	3.2	0.10	0.20	0.26
			1	2.2	0.10	0.20	0.04
		Stair					
		Ground Floor to First Floor Waist Slab	1	4.3	1.20	0.18	0.93
		Landing	1	2.4	1.50	0.18	0.65
		Beam	1	2.4	0.20	0.22	0.11
		Waist Slab	1	2.4	1.20	0.18	0.52
		Steps	20 x1/2	1.2	0.25	0.18	0.54
		First to Second Floor Waist Slab	1	3.2	1.20	0.18	0.69
		Landing	1	2.4	1.50	0.18	0.65
		Beam	1	2.4	0.20	0.22	0.11
		Waist Slab	1	3.5	1.20	0.18	0.76
		Steps	20 x1/2	1.2	0.25	0.18	0.54
		Platform labour room	1	2.60	0.60	0.10	0.156
		Almirah	3	1.20	0.60	0.10	0.22
		Kitchen platfrom	2x1	3.45	0.60	0.10	0.41
			3x2	0.85	0.60	0.10	0.31
		Slab beam G.F +F.F					
		Horizontal Axis					
		SB1	2x3	3.4	0.2	0.18	0.73
		SB1	2x1	2.8	0.2	0.18	0.20
		SB2	2x3	4.2	0.2	0.28	1.41
		SB2	2x1	4.8	0.2	0.28	0.54
		SB4	2x1	3.2	0.1	0.18	0.12
		Vertical Axis					
		SB1	2x6	3.2	0.2	0.18	1.38
		SB3	2x3	2.4	0.2	0.28	0.81
		SB2	2x1	2.4	0.1	0.28	0.13
		SB4	2x2	3.2	0.1	0.18	0.23
		Slab G.F & F.F.	2x1	8.70	6.80	0.12	14.20
		Sunken	2x1	3.60	2.40	0.12	2.07
		Stair	1x1	2.00	1.20	0.12	0.29
			1x1	1.00	1.20	0.12	0.14
			1x1	1.20	2.40	0.12	0.35
		Almirah Rooms First Floor	2x2x2	1.20	0.45	0.10	0.43
			2x2x1	2.20	0.45	0.10	0.79
							68.09

S. No.	SOR P/I.No.	Particular's of Items	Measurement No.	L.	B.	H.	Qty.
5	3.14.3	Providing and placing in position reinforcement fo R.C.C. work including straightening, cutting, bendi binding etc. complete as per drawings including cost of binding wire all complete:					
		Cold twisted bar / Hot rolled deformed steel		110kg/Cum of R.C.C			7489.658
6	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.					
		Column F1	8	1.50	1.80	2.10	45.36
		F2	4	1.50	1.50	2.10	18.9
		Deduction				A	**64.26**
		Footing P.C.C.					4.59
		Footing R.C.C.					10.28
		C1	8	0.20	0.40	1.50	0.96
		C2	4	0.20	0.30	1.50	0.36
						B	**-16.19**
		Labour room	1	3.20	5.80	0.50	9.28
		Ward room	1	3.70	3.20	0.50	5.92
		Toilet room	1	1.20	1.20	0.50	0.72
		Toilet room	1	1.20	1.90	0.50	1.14
		Passage below stair	1	3.50	1.10	0.50	1.93
			1	3.50	1.20	0.50	2.10
			1	1.40	2.40	0.50	1.68
		Clinic	1	3.20	3.20	0.50	5.12
		Waiting	1	2.20	3.20	0.50	3.52
		MWP (M)	1	2.70	3.20	0.50	4.32
		Ramp	1	1.20	1.00	0.50	0.6
		Stair Plateform	1	2.40	1.00	0.50	1.2
		Front Plateform	1	2.60	2.80	0.30	2.184
						C	**37.525**
				Net Qty = A-B+C			
	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.					
		Footing F1	8x2	1.20	-	0.20	3.84
			8x2	1.50	-	0.20	4.80
		F2	4x2	1.20	-	0.20	1.92
			4x2	1.20	-	0.20	1.92
		Column upto plinth level C1	8x2	0.20	-	2.10	6.72
			8x2	0.40	-	2.10	13.44
		C2	4x2	0.20	-	2.10	3.36
			4x2	0.30	-	2.10	5.04
		Plinth beam horizontal Axis					
		Plinth beam PB1	3x2	4.20	-	0.40	10.08
			1x2	4.80	-	0.40	3.84
		Plinth beam PB2	3x2	3.40	-	0.30	6.12
			1x2	2.80	-	0.30	1.68

S. No.	SOR P/I.No.	Particular's of Items	Measurement No.	L.	B.	H.	Qty.
		Plinth beam PB3	2x2	1.20	-	0.30	1.44
			1x2	3.50	-	0.30	2.10
		Plinth beam Vertical Axis					
		Plinth beam PB2	4x2	3.20	-	0.30	7.68
			1x2	2.40	-	0.30	1.44
		Plinth beam PB1	1x2	2.40	-	0.40	1.92
		Plinth beam PB3	4x2	3.20	-	0.30	7.68
			3x2	2.40	-	0.30	4.32
							89.34
	2.1.9	Beams, lintels, cantilevers & walls					
		Lintel beams for first and second floor					
		Lintel beamL1	2x2	8.70	-	0.80	27.84
			2x2	9.60	-	0.80	30.72
		Ground Floor Lintel beamL2	1	1.2	-	0.60	0.72
			2	3.4	-	0.60	4.08
			1	4.2	-	0.60	2.52
		Lintel beamL3	4	3.2	-	0.50	6.40
			3	2.4	-	0.50	3.60
			1	3.5	-	0.50	1.75
			2	1.2	-	0.50	1.20
		First Floor Lintel beamL2	2	3.4	-	0.60	4.08
			2	4.2	-	0.60	5.04
		Lintel beamL3	1	1.4	-	0.50	0.70
			1	1.8	-	0.50	0.90
			4	3.2	-	0.50	6.40
			1	2.2	-	0.50	1.10
		Slab beam G.F +F.F					
		Horizontal Axis					
		SB1	2x3	3.4	-	0.56	11.42
		SB1	2x1	2.8	-	0.56	3.14
		SB2	2x3	4.2	-	0.76	19.15
		SB2	2x1	4.8	-	0.76	7.30
		SB4	2x1	3.2	-	0.46	2.94
		Vertical Axis					
		SB1	2x6	3.2	-	0.56	21.50
		SB3	2x3	2.4	-	0.76	10.94
		SB2	2x1	2.4	-	0.76	3.65
		SB4	2x2	3.2	-	0.46	5.89
							182.99
	2.1.6	Columns, Pillars, Piers and likes- rectangular or square in shape					
		Column upto G.F. top C1	8x2	0.20	-	9.90	31.68
			8x2	0.40	-	9.90	63.36
		C2	4x2	0.20	-	9.90	15.84

S. No.	SOR P/I.No.	Particular's of Items	Measurement				Qty.
			No.	L.	B.	H.	
			4x2	0.30	-	9.90	23.76
		F.F. C1	2x2	0.20	-	1.30	1.04
			2x2	0.40	-	1.30	2.08
		C2	2x2	0.20	-	1.80	1.44
			2x2	0.30	-	1.80	2.16
							141.36
	2.1.8	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)					
		Slab G.F & F.F.	2x1	8.70	6.80	-	118.32
		Sunken	2x1	3.60	2.40	-	17.28
		Stair	1x1	2.00	1.20	-	2.40
			1x1	1.00	1.20	-	1.20
			1x1	1.20	2.40	-	2.88
		Side	2x2	8.70	-	0.12	4.176
			2x2	9.60	-	0.12	4.608
			2x2	5.00	-	0.12	2.4
			2x2	2.40	-	0.12	1.152
		Platform labour room	1	2.60	0.70	-	1.82
		Almirah	3	1.20	0.70	-	2.52
		Kitchen platfrom	2x1	3.45	0.70	-	4.83
			3x2	0.85	0.70	-	3.57
		Almirah	2x2x2	1.20	0.70		6.72
			2x2x1	2.20	0.70		6.16
							180.04
	2.1.14	Weather shade, chhajja, Cornices and mouldings					
		Chajja	2x2	8.70	-	0.60	20.88
			2x2	10.8	-	0.60	25.92
		Side	2x2	9.90	-	0.10	3.96
			2x2	10.8	-	0.10	4.32
							55.08
	2.1.6	Stair cases of all types ex/c spiral and folded plate type in/c risers and landings					
		Ground Floor to First Floor Waist Slab	1	4.3	1.20	-	5.16
			1	4.3	-	0.18	0.77
		Landing	1	2.4	1.50	-	3.60
			1	2.4	-	0.18	0.43
		Beam	1	2.4	-	0.64	1.54
		Waist Slab	1	2.4	1.20	-	2.88
			1	2.4	-	0.18	
		Steps	20 x1/2	1.2	-	0.18	2.16
		First to Second Floor Waist Slab	1	3.2	1.20	-	3.84
			1	3.2	-	0.18	
		Landing	1	2.4	1.50	-	3.60

S. No.	SOR P/I.No.	Particular's of Items	Measurement				Qty.
			No.	L.	B.	H.	
			1	2.4	-	0.18	
		Beam	1	2.4	-	0.64	1.54
		Waist Slab	1	3.5	1.20	-	4.20
			1	3.5	-	0.18	0.63
		Steps	20 x1/2	1.2	-	0.18	2.16
							32.51
8	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) Below Plinth level					
		Labour room	1	3.20	0.20	0.50	0.32
			1	4.20	0.20	0.50	0.42
		Clinic	1	3.20	0.20	0.50	0.32
			1	2.80	0.20	0.50	0.28
		Ward	1	3.40	0.20	0.50	0.34
			1	3.20	0.20	0.50	0.32
		Toilet	2	4.20	0.20	0.50	0.84
			1	2.40	0.20	0.50	0.24
		stair	1	2.40	0.20	0.50	0.24
			2	3.40	0.20	0.50	0.68
		Waiting/MWP	1	4.80	0.20	0.50	0.48
		MPW	1	3.20	0.20	0.50	0.32
		Ramp	2	2.00	0.20	0.30	0.24
		steps	1	1.20	0.60	0.60	0.43
			1	2.80	1.00	0.60	1.68
		Front Varandah	2	3.00	0.20	0.70	0.84
			1	8.30	0.20	0.70	1.16
		steps	1	1.20	0.30	0.15	0.05
							9.21
	7.5.1	Above Plinth and upto floor five level					
		Labour room	1	3.20	0.20	3.30	2.11
			1	4.20	0.20	3.30	2.77
		Clinic	1	3.20	0.20	3.30	2.11
			1	2.80	0.20	3.30	1.85
		Ward	1	3.40	0.20	3.30	2.24
			1	3.20	0.20	3.30	2.11
		Toilet	2	4.20	0.20	3.30	5.54
			1	2.40	0.20	3.30	1.58
		stair	1	2.40	0.20	3.30	1.58
			2	3.40	0.20	3.30	4.49
		Waiting/MWP	1	4.80	0.20	3.30	3.17
		MPW	1	3.20	0.20	3.30	2.11
		F.F Kitchen / Room	2x1	4.20	0.20	3.00	5.04
		stair	2x1	1.20	0.20	3.00	1.44
			2x2	3.20	0.20	3.00	7.68
		Room	2x2	3.40	0.20	3.00	8.16
		Verandah / stair	1x2	2.40	0.20	3.00	2.88
		Parapet wall	2	8.70	0.20	0.90	3.13
			2	9.20	0.20	0.90	3.31

S. No.	SOR P/I.No.	Particular's of Items	Measurement No.	L.	B.	H.	Qty.
		Tower wall	2	5.00	0.20	2.45	4.90
			1	2.40	0.20	2.70	1.30
		Tower wall	1	2.40	0.20	2.10	1.01
						A	**70.53**
		Deductions W1(-)	15	1.50	0.20	1.20	5.40
		W2(-)	2	1.00	0.20	1.20	0.48
		G1	2	1.00	0.20	1.20	0.48
		V1(-)	4	0.60	0.20	0.60	0.29
		D(-)	1	1.20	0.20	2.10	0.50
		D1(-)	5	1.10	0.20	2.10	2.31
		D2(-)	2	0.80	0.20	2.10	0.67
		CG1(-)	1	2.20	0.20	2.10	0.92
		CG2(-)	1	1.20	0.20	2.10	0.50
						B	**11.06**
					Net Qty.		**59.47**
9	7.9.2	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. Cement Mortar 1:4 (1 cement : 4 coarse sand) Below Plinth					
		Labour room / ward /MWP / Clinic	4	3.20	-	0.50	1.60
		Toilet / Stair wall	3	2.40	-	0.50	1.20
		Toilet	2	1.20	-	0.50	1.20
		stair	1	3.50	-	0.50	1.75
		Above Plinth					
		Labour room	1	5.60	-	3.30	18.48
		Toilet wall	1	2.40	-	3.30	7.92
		stair	1	2.40	-	3.30	7.92
		Toilet	2	1.20	-	3.30	7.92
		Ward/ Clinic / MWP	3	3.20	-	3.30	31.68
		Store	1	3.50	-	2.70	9.45
		F.F Kitchen+Room	4	3.20	-	3.30	42.24
		Verandah	2	2.40	-	3.30	15.84
		Toilet	1	1.80	-	3.30	5.94
		Toilet	1	1.40	-	3.30	4.62
		Toilet	2	3.30	-	3.30	21.78
		Almirah	1	0.60		2.10	1.26
		F.F Kitchen	2x1	0.60		2.10	2.52
		Plateform	11	0.60		0.80	5.28
						A	**188.60**
		Deductions D(-)	3	1.20	-	2.10	7.56
		Deductions D1(-)	5	1.20	-	2.10	12.60
		Deductions D2(-)	5	0.80	-	2.10	8.40
		Deductions V1(-)	2	0.60	-	0.60	0.72
						B	**29.28**
					Net Qty.		**159.32**

S. No.	SOR P/I.No.	Particular's of Items	Measurement				Qty.
			No.	L.	B.	H.	
10	7.1o	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.					
				Same as above Qty.			**159.32**
11	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.					
		horizontal Axis					
			3	4.20	0.20	0.05	0.13
			1	4.80	0.20	0.05	0.05
			3	3.40	0.20	0.05	0.10
			1	2.80	0.20	0.05	0.03
			2	1.20	0.10	0.05	0.01
			1	3.50	0.10	0.05	0.02
		Vertical Axis					
			4	3.20	0.20	0.05	0.13
			1	2.40	0.20	0.05	0.02
			1	2.40	0.20	0.05	0.02
			4	3.20	0.10	0.05	0.06
			1	2.40	0.10	0.05	0.01
							0.59
12	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.					
		horizontal Axis					
			3x2	4.20	-	0.40	10.08
			1x2	4.80	-	0.40	3.84
			3x2	3.40	-	0.30	6.12
			1x2	2.80	-	0.30	1.68
			2x2	1.20	-	0.30	1.44
			1x2	3.50	-	0.30	2.10
		Vertical Axis					
			4x2	3.20	-	0.30	7.68
			1x2	2.40	-	0.30	1.44
			1x2	2.40	-	0.40	1.92
			4x2	3.20	-	0.30	7.68
			3x2	2.40	-	0.30	4.32
							48.30
13	11.2.3	12mm thick cement plaster of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand)					
		Labour room	1	5.80	-	3.48	20.18
			1	3.20	-	3.48	11.14
		Ward	1	3.70	-	3.48	12.88
		Toilet I	1	1.20	-	3.48	4.18
		Ward	1	3.20	-	3.48	11.14
		Stair work	1	2.60	-	6.66	17.32

S. No.	SOR P/I.No.	Particular's of Items	Measurement				Qty.
			No.	L.	B.	H.	
		MWP (M)	1	3.20	-	3.48	11.14
			1	2.70	-	3.48	9.40
		Clinic	1	3.20	-	3.48	11.14
			1	3.20	-	3.48	11.14
		Labour roo 4" wall	1	5.80	3.48	-	20.18
		Toilet wall (I)	1	1.50	3.48	-	5.22
		Toilet wall (IW)	1	1.60	3.48	-	5.57
		Toilet partition	1	1.20	3.48	-	4.18
			2	5.20	3.48	-	36.19
		Labour room	1	3.20	3.48	-	11.14
		Waiting & MWP (M)	2	3.20	3.48	-	22.27
		Toilet	1	1.80	3.48	-	6.26
			1	1.20	3.48	-	4.18
		F.F. kitchen	2	1.70	3.18	-	10.81
		Room	2	2.90	3.18	-	18.44
		Room	2	3.50	3.18	-	22.26
			2	3.20	3.18	-	20.35
			2	3.20	3.18	-	20.35
		Veranda	1	2.60	3.18	-	8.27
		Room	2	6.70	3.18	-	42.61
		Partition wall	1	2.30	3.18	-	7.31
			2	2.30	3.18	-	14.63
		Partition wall	4	3.20	3.18	-	40.70
		Parapet	2	8.70	0.90	-	15.66
			2	9.60	0.90	-	17.28
		Mumty	2	5.00	2.50		25.00
			1	2.80	1.80		5.04
			1	2.80	1.30		3.64
		Front Plateform	2	3.00	0.45		2.70
			1	8.70	0.45		3.92
							513.80
		Deduction W1(-)	15	1.50	1.20	-	27.00
		W2(-)	4	1.00	1.20	-	4.80
		D(-)	4	1.20	2.10	-	10.08
		D1(-)	10	1.10	2.10	-	23.1
		D2(-)	7	1.20	2.10	-	17.64
		V1(-)	6	0.60	0.60	-	2.16
		G1(-)	1	2.20	2.10	-	4.62
		G2(-)	1	1.20	2.10	-	2.52
							91.92
							421.88
14	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)					
		Outer wall of G.F. & F.F.	2	8.70	3.60	-	62.64
			2	8.70	3.30	-	57.42
		Outer wall of F.F.	1	9.60	3.60	-	34.56
			1	9.60	3.30	-	31.68
			1	2.60	6.90	-	17.94
		Stair side wall	2	6.80	3.60	-	48.96
			1	6.80	3.30	-	22.44
		Labour room	1	5.80	3.48	-	20.18

S. No.	SOR P/I.No.	Particular's of Items	Measurement No.	L.	B.	H.	Qty.
		Partition wall	1	3.20	3.48	-	11.14
			1	1.20	3.48	-	4.18
		store room + passage	2	4.90	3.48	-	34.10
		MWP (M) + waiting	2	3.20	3.48	-	22.27
		Partition wall toilet	1	3.20	3.48	-	11.14
			1	1.80	3.48	-	6.26
			1	1.20	3.48	-	4.18
		Parapet	2	8.70	0.90	-	15.66
			2	9.60	0.90	-	17.28
			2	3.60	2.20	-	15.84
			2	3.90	2.70	-	21.06
		Kitchen Partition	2	3.20	3.48	-	22.27
		Verandah	1	2.30	3.48	-	8.00
		Toilet	1	2.30	3.48	-	8.00
		Toilet & Verandah Partition wall	3	3.20	3.48	-	33.41
		Store wall	2	3.50	3.48	-	24.36
		Mumty	2	5.00	2.50		25.00
			1	2.80	2.70		7.56
			1	2.80	2.20		6.16
							593.70
		Deduction W1(-)	15	1.50	1.20	-	27.00
		W2(-)	4	1.00	1.20	-	4.80
		D(-)	4	1.20	2.10	-	10.08
		D1(-)	10	1.10	2.10	-	23.1
		D2(-)	7	1.20	2.10	-	17.64
		V1(-)	5	0.60	0.60	-	1.80
		G1(-)	1	2.20	2.10	-	4.62
		G2(-)	1	1.20	2.10	-	2.52
							91.56
							502.14
15	9.13.2	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.					
		Single rebate 80mmx50mm size, 1.6mm thick sheet					
		W1	13	3+7.2			132.60 RM
		W2	2	2+4.8			13.60
		D1	10	1.1+4.2			53
		D2	7	0.8+4.2			35
		V1	6	(4x0.60)		-	14.4
		V2	2	(2x1.2 + 2x.6)		-	7.2
							255.80

S. No.	SOR P/I.No.	Particular's of Items	Measurement				Qty.
			No.	L.	B.	H.	
16	9.14	Providing and fixing in position door shutter made of rectangular hollow steel tube of size 30x20mmx1.6mm joint mitred, welded frame with two Nos. intermediate rails, 200mm wide lock rail made of 1.6mm thick M.S. sheet welded to intermediate rail, M.S. grill of approved pattern made of M.S. flat or square are round bars welded to frames and provided M.S. butt hinges, all necessary fitting and finished by filling putty including applying a priming coat of red oxide zinc chromate primer all complete.					
		Window	13	1.50	-	1.20	23.40
			2	1.00	-	1.20	2.40
							25.80
17	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)					
		D1	10	1.04	-	2.06	21.42
		D2	7	0.74	-	2.06	10.67
		V1	6	0.60	-	0.6	2.16
		V2	2	1.20	-	0.6	1.44
							35.69
18	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 separateiy					
		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).					
		D	4	1.20	-	2.10	10.08
		W1	2	1.50	-	1.20	3.6
							13.68
					10 kg/sqm		**136.8**

S. No.	SOR P/I.No.	Particular's of Items	Measurement No.	L.	B.	H.	Qty.	
19	9.48.1	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.						
		With decorative lamination on one side and balancing lamination on other side.						
		D1	4	1.20	-	2.10	10.08	
							10.08	Sq m.
20	9.1	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat of red oxide zinc chromate primer..						
		W1	15	1.50	-	1.20	27.00	
		W2	4	1.00	-	1.20	4.80	
		G1	1	2.20	-	2.10	4.62	
		G2	1	1.20	-	2.10	2.52	
		V1	6	0.60	-	0.60	2.16	
		Stair	4	16	0.90	-	57.6	
							98.70	
				98.70@25Kg/sqm			**2467.50**	Kg.
21	11.5	Neat Cement punning.						
		Over grading	1	8.70	6.80	-	59.16	
		Over grading	1	2.60	2.80	-	7.28	
		Chajja	4	9.90	0.60	-	23.76	
			4	10.80	0.60	-	25.92	
							116.12	Sq m.
22	11.1.2	6mm thick cement plaster of mix:						
		In Cement mortar 1:4 (1 cement : 4 fine sand)						
		G>F. labour room	1	3.20	5.80	-	18.56	
		Ward	1	3.70	3.20	-	11.84	
		Toilet (I)	1	1.20	1.50	-	1.80	
		Toilet (w)	1	1.20	1.60	-	1.92	
		Toilet	1	1.20	1.80	-	2.16	
		Clinic	1	3.20	3.20	-	10.24	
		Waiting	1	2.20	3.20	-	7.04	
		MWP(M)	1	2.70	3.20	-	8.64	
		F.F Kitchen	2	1.70	3.20	-	10.88	
		F.F room	2	2.90	3.20	-	18.56	
		F.F room	2	3.50	3.20	-	22.4	
		Verandah	2	1.40	1.15	-	3.22	
		Toilet	2	1.80	1.15	-	4.14	
		Chajja	4	9.90	0.60	-	23.76	
			4	10.80	0.60	-	25.92	
							171.08	Sq m

S. No.	SOR P/I.No.	Particular's of Items	Measurement				Qty.	
			No.	L.	B.	H.		
23	8.108.1	Providing and fixing M.S. bright finished or black enameled door sliding door bolts withbolts, nuts and necessary iron screws:						
		300x16mm	17	-	-	-	17	No.
24	8.108.1	Providing and fixing M.S. bright finished or black enameled door latch with necessary iron screws:						
		300x20x6mm	17	-	-	-	17	No.
25	8.110.	Providing and fixing M.S. bright finished or black enameled Tower bolts (Barrel type) with necessary iron screws:						
	8.110.1	250 mm	17	-	-	-	17	No.
	8.110.4	100 mm	47	-	-	-	47	No.
27	8.111	Providing and fixing M.S. bright finished or black enameled handles with necessary iron screws:						
26	8.111.1	125 mm	17x2	-	-	-	34	No.
	8.111.2	100 mm	47x2	-	-	-	94	No.
27	8.131	Providing and fixing aluminium door mounted door stopper with necessary nickle plated iron screws etc complete.						
		100 mm long	17	-	-	-	17	No.
28	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.						
		Labour room	2	3.20	-	2.10	13.44	
			2	5.80	-	2.10	24.36	
		Toilet	2	1.80	-	2.10	7.56	
			2	1.20	-	2.10	5.04	
		Ward	2	3.70	-	0.90	6.66	
			2	3.20	-	0.90	5.76	
		Toilet (I)	2	1.20	-	0.90	2.16	
			2	1.20	-	0.90	2.16	
		Toilet (W)	2	1.20	-	1.50	3.6	
			2	1.90	-	1.50	5.7	
		Passage below stair	2	2.40	-	0.90	4.32	
			2	1.40	-	0.90	2.52	
		Clinic	2	3.20	-	0.90	5.76	
			2	3.20	-	0.90	5.76	
		Waiting	2	2.20	-	0.90	3.96	
			2	3.20	-	0.90	5.76	
		MWP	2	2.70	-	0.90	4.86	
			2	3.20	-	0.90	5.76	
		Kitchen F.F	2	4.05	-	1.30	21.06	
		Toilet	2x2	1.15	-	1.50	6.9	
			2x2	1.80	-	1.50	10.8	

S. No.	SOR P/I.No.	Particular's of Items	Measurement No.	L.	B.	H.	Qty.	
						A	153.9	
		DeductionsD(-)	2	1.20	-	2.10	5.04	
		DeductionsD(-)	6	1.20	-	0.90	6.48	
		DeductionsD1(-)	5	1.10	-	0.90	4.95	
		DeductionsD2(-)	2	0.80	-	0.90	1.44	
		DeductionsD2(-)	4	0.80	-	2.10	6.72	
		DeductionsW1(-)	2	1.50	-	1.20	3.60	
		DeductionsG1(-)	1	2.20	-	0.90	1.98	
						B	30.21	
					Net Qty.		123.69	Sq m.
29	12.9	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:						
		Ward room	1	3.70	3.20	-	11.84	
		Toilet room	1	1.20	1.20	-	1.44	
		Toilet room	1	1.20	1.90	-	2.28	
		Store below stair	1	3.50	2.40	-	8.4	
		Passage below stair	1	1.40	2.40	-	3.36	
		Clinic	1	3.20	3.20	-	10.24	
		Waiting	1	2.20	3.20	-	7.04	
		MWP	1	2.70	3.20	-	8.64	
		F.F Kitchen	2	1.70	3.20	-	10.88	
		Labour room	1	3.20	5.80	-	18.56	
		Deduction for Toilet	1	1.30	1.90	-	-2.47	
		F.F Toilet	2	1.80	1.15	-	4.14	
		Skirting	1	66.40	-	0.15	9.96	
							94.31	Sq m.
0	12.2.2	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement..						
		50 mm thick						
		Front Plateform	1	8.7	3		26.1	
		Side Plateform	1	3	1.2		3.6	
		F.F Room	2	2.90	3.20	-	18.56	
		F.F Room	2	3.50	3.20	-	22.40	
		F.F Verandah	2	1.40	1.15	-	3.22	
							73.88	

S. No.	SOR P/I.No.	Particular's of Items	Measurement				Qty.
			No.	L.	B.	H.	
31	12.35.5	15mm thick Marble stone slab in, tread & risers of steps, skirting, dado, walls and pillars on 12mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) and jointed with grey cement slurry including matching pigment, rubbing and polishing etc. complete. (single stone is to be used for risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m).					
		Udaipur green marble					
		Labour room	1	3.00	0.70	-	2.10
		Kitchen Plateform	2	3.50	0.70	-	2.45
							4.55
32	6.25	Providing and fixing both side polished 30 mm thick RAJIM SAND STONE shelves fixed in walls in cement mortar 1:3 (1 cement : 3 coarse sand) including finishing complete.					
		Store	3	1.00	-	1.20	3.60
		Almiras	3	1.50	-	0.60	2.70
			6	1.10	-	0.60	3.96
							10.26
33	12.32.1	Chequerred terrazzo tiles 25 mm thick with graded marble chips of size upto 6mm in floors on 25mm thick bed of cement mortar 1:6 (1 cement : 6 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of tiles including grinding rubbing and polishing complete.					
		Light shade using white cement					
		Landing	4	1.40	-	2.40	13.44
		Steps	40	1.20	0.25	-	12.00
			40	1.20		0.18	8.40
		Front	1	1.20	0.8	-	0.96
			1	1.2	2.4	-	2.88
		Front	1	2.4	1.10	-	2.64
		Qtr. Steps	2	2.8	0.30	-	1.68
			2	2.80		0.15	0.84
		Plateform	1	2.8	1.00	-	2.80
		Entry. Steps	2	1.2	0.30	-	0.72
			2	1.20		0.15	0.36
		Ramp	1	1.00	2.00	-	2.00
							48.72
34	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 Qty of Plaster 6mm	-	-	-	-	171.08
		Total Qty of Plaster 12mm	-	-	-	-	421.88
		(-) wall tiles	-	-	-	-	123.69

S. No.	SOR P/I.No.	Particular's of Items	Measurement No.	L.	B.	H.	Qty.
		(-) Skirting	-	-	-	-	9.96
					Net Qty.		**459.31**
35	14.5.1	Distempering with acrylic washable distemper to give an even shade.					
		On new work (Two or more coats)			Qty same as putty		**459.31**
36	14.18.1	Painting on new work (two or more coats) to give an even shade with:					
		Satin synthetic enamel paint (top most approved branded quality)					
		W1	13x2	1.50	-	1.20	46.80
		W2	4x2	1.00	-	1.20	9.60
		V1	6x2	0.60	-	0.60	4.32
		G1	1x2	2.2	-	2.10	9.24
		G2	1x2	1.2	-	2.10	5.04
		GRILL W1	15	1.50	-	1.20	27.00
		W2	2	1.00	-	1.20	2.40
		V1	6	0.60	-	0.60	2.16
		D1	10X2	1.2	-	2.10	50.4
		D2	7X2	0.8	-	2.10	23.52
		Stair railing	1	16	-	0.90	14.4
							194.88
37	14.11.1	Finishing walls with water proofing cement paint to give an even shade.					
		On new work (Two or more coats)					
		Outer wall	2	8.70	-	3.60	62.64
		Outer wall	2	8.70	-	3.30	57.42
		Outer wall	1	9.60	-	3.60	34.56
		Outer wall	1	9.60	-	3.30	31.68
		Outer wall	1	2.60	-	6.90	17.94
		Outer wall	1	6.80	-	3.60	24.48
		Outer wall	1	6.80	-	3.30	22.44
		Parapet outer	2x2	8.70	-	0.90	31.32
			2x2	6.80	-	0.90	24.48
		Tower wall	1x2	3.60	-	2.2	15.84
			1x2	3.60	-	2.7	19.44
			1x2	3.90	-	2.45	19.11
		Chajja	4x2	9.90	0.60	-	47.52
			4x2	10.80	0.60	-	51.84
							460.71
		deductions W1	15	1.50	-	1.20	27.00
		deductions W2	4	1.00	-	1.20	4.80
		deductions V1	4	0.60	-	0.60	1.44
		G1	1	2.20	-	2.10	4.62
		G2	1	1.20	-	2.10	2.52
		D1	1	1.10	-	2.10	2.31
							40.38
							420.33

S. No.	SOR P/I.No.	Particular's of Items	Measurement				Qty.
			No.	L.	B.	H.	
38	4.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of WC, kitchen and the like consisting of:					
		i) 1st course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 including rounding off junction of vertical and horizontal surface.					
		Toilet	2	1.20	1.80	-	4.32
		Toilet (I)	2	1.20	1.20	-	2.88
		Toilet (W)	2	1.20	1.90	-	4.56
							11.76
		ii) 2nd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound including rounding off junction of vertical and horizontal surface.					
		iii) 3rd course of applying blown or residual bitumen applied hot @ 1.7 Kg. per sqm of area.					**11.76**
		iv) 4th course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg. per sqm of area.					**11.76**
							35.28
39	4.13.1	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)					
			1	8.70	9.60	0.05	4.176
		Deduct stair porion	1	3.50	2.40	0.05	0.39
							3.79
40	9.3.1	Steel work in tubular structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.					
		Hot finished welded tubes	30 m @5kg/m =150 Kg				**150**
		Front Plateform Shed	8.7x3.6= 31.32 @ 10 kg Sqm				**313.2**
							463.2
41	9.4	Extra for hoisting trusses and placing in position over height above 5m for every 2.5 m height or part thereof.		463.2			**463.2**

S. No.	SOR P/I.No.	Particular's of Items	Measurement				Qty.
			No.	L.	B.	H.	
42	10.13	Providing asbestos cement 6mm thick corrugated or semi corrugated sheets roofing fixed with galvanized J or L hooks, bolts and nuts 8mm dia G.I. plain bitumen washers complete excluding the cost of purlins, rafters and trusses.					
		Mumty	1	3.4	5.5	-	**18.7**
		Front Plateform	1	8.7	3.6	-	**31.32**
							50.02
43	19.7	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:					
	19.7.1	15 mm dia. nominal bore	20	-	-	-	**20**
	19.7.2	20 mm dia. nominal bore	60	-	-	-	**60**
44	19.9	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:					
	19.9.3	25 mm dia. nominal bore	10	-	-	-	**10**
45	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)					
	19.10.1	25 mm nominal bore	5	-	-	-	**5**
46	19.13.1	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 400 grams):					
		Bib cock	5	-	-	-	**5**
47	19.13.2	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 400 grams):					
		Stop cock	15	-	-	-	**15**
48	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	4	-	-	-	**4**

S. No.	SOR P/I.No.	Particular's of Items	Measurement				Qty.
			No.	L.	B.	H.	
49	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	1	-	-	-	1
50	18.17.1	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :					
		White Size 630x450 mm	2	-	-	-	2
51	18.22.2	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 :					
		Size 600x450x200mm	1	-	-	-	1
52	18.21.2	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink without drain board as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :					
		610x460 mm bowl depth 200 mm.	2	-	-	-	2
53	18.74	Providing and fixing on wall face UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.					
	18.74.1	75 mm dia pipe.	1	30	-	-	30
	18.74.2	110 mm dia pipe.	1	30	-	-	30
54	18.75	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.					
	18.75.1	Coupler					
	18.75.1.1	75 mm	10	-	-	-	10
	18.75.1.2	110 mm	10	-	-	-	10
	18.75.2	Single tee with door					
	18.75.2.2	110x110x110 mm	10	-	-	-	10
	18.75.5	Plain bend					
	18.75.5.1	75 mm bend	10	-	-	-	10

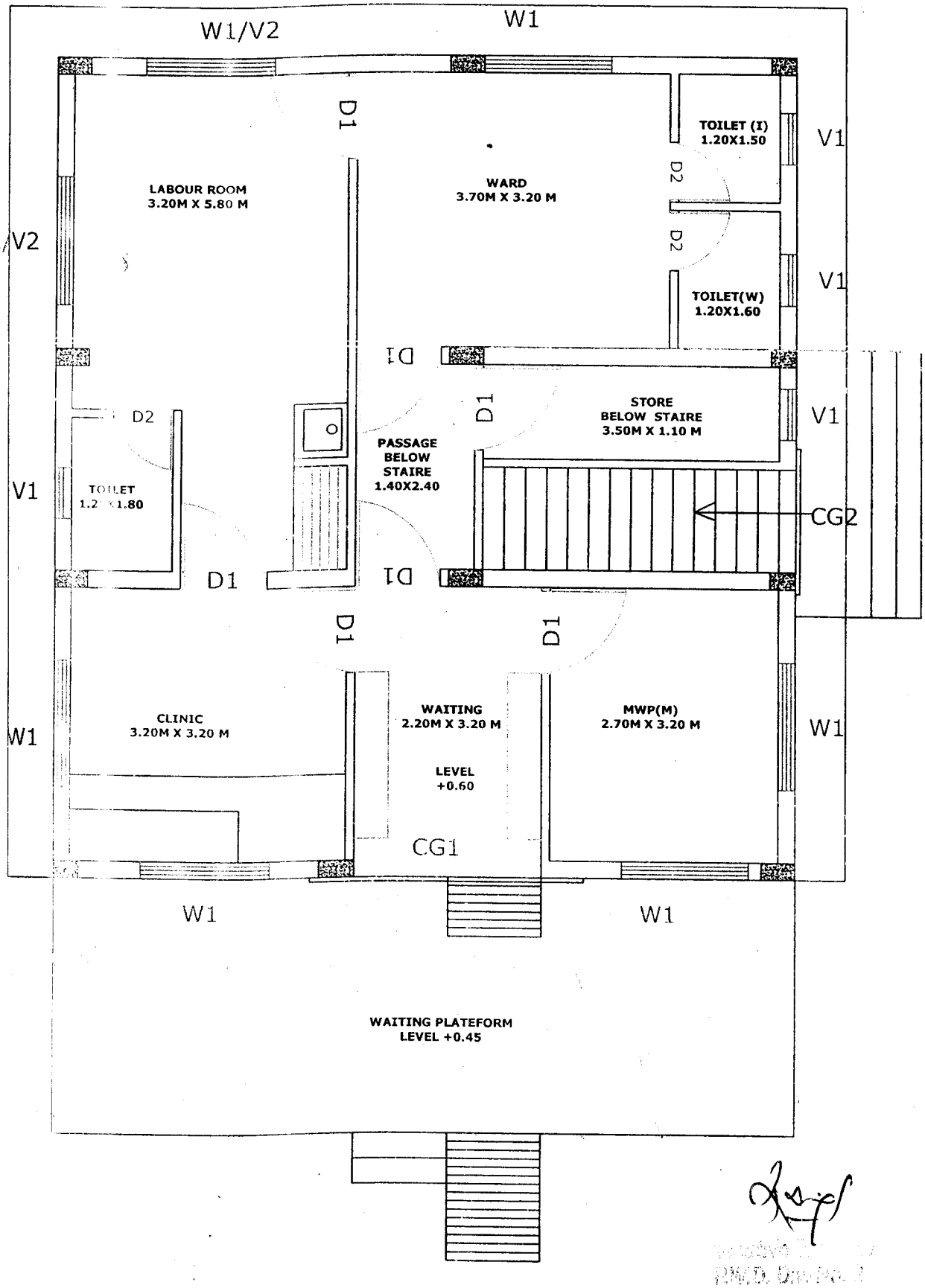
S. No.	SOR P/I.No.	Particular's of Items	Measurement				Qty.
			No.	L.	B.	H.	
	18.75.5.2	110 mm bend	10	-	-	-	10
	18.75.6.2	Vent covel 110 mm	5	-	-	-	5
55	20.1.2	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 150 mm diameter	20	-	-	-	20
56	20.2.2	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: 150 mm diameter S.W. pipe	20	-	-	-	20
57	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/ cm^2, 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	-	-	-	15
58	20.27.1	Providing and constructing brick masonry chamber for underground C.I. inspection chamber and bends with well burnt modular clay bricks crushing strength not less than 35kg/cm^2 in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design : Inside dimensions 455x610 mm and 45 cm deep for single pipe line :	4	-	-	-	4

S. No.	SOR P/I.No.	Particular's of Items	Measurement				Qty.
			No.	L.	B.	H.	
59	20.29	Providing and constructing soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with well burnt modular clay bricks crushing strength not less than 35kg/cm² and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.	2	-	-	-	2
60	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.					2000.00
				1000+500+500			
61	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.					
		CG1	1	3.2	-	2.4	7.68
		CG2	2	3	-	2.4	14.4
							22.08
62	L.S	Boring and Pump	-	-	-	-	-

Sub-Divisional Officer

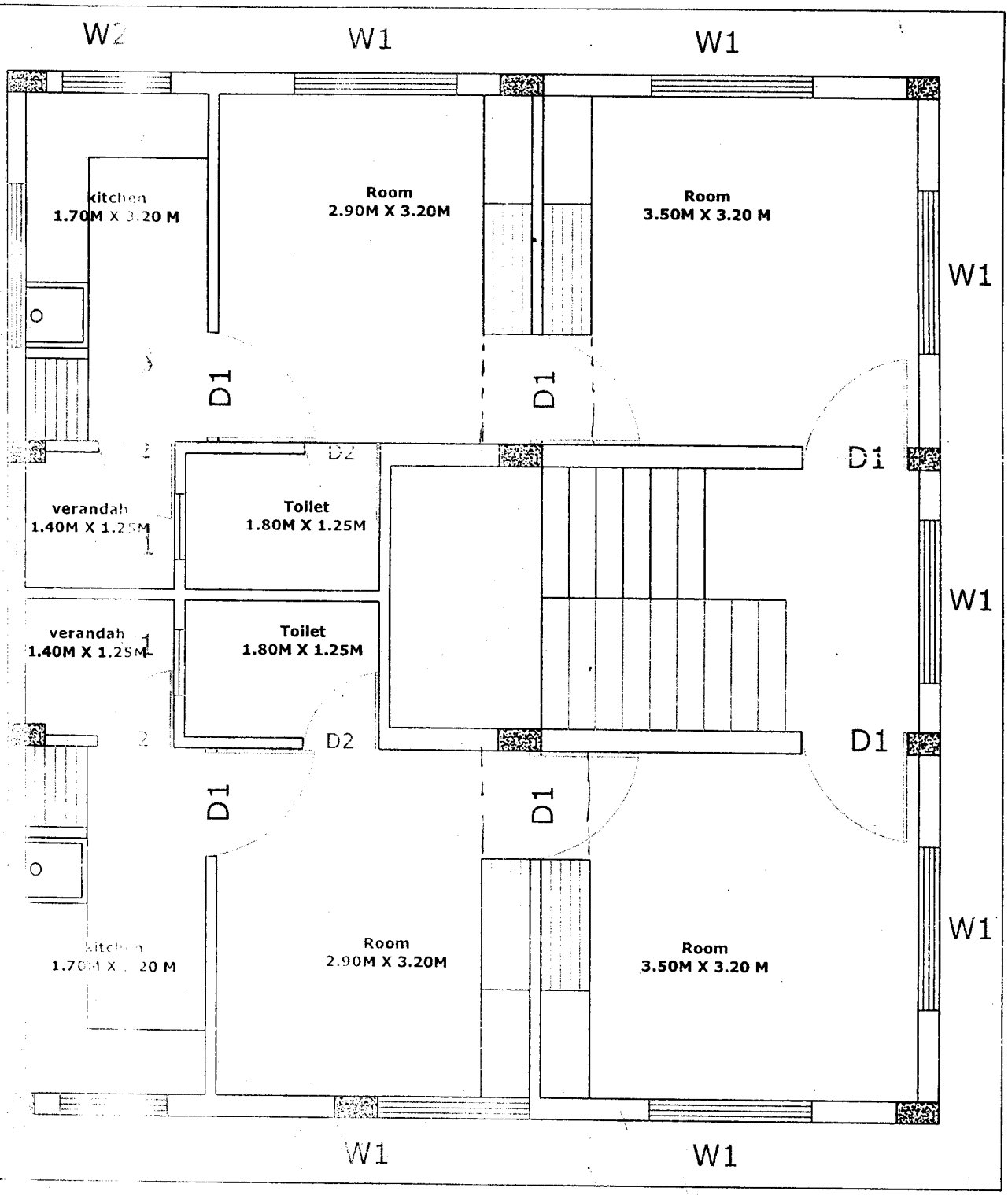
Divisional Engineer
Division No. 2

HEALTH SUB CENTRE



GROUND FLOOR PLAN

PLINTH AREA - 83.52 SQM.



FIRST FLOOR PLAN

Executive Engineer
PWD. 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 norminal 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		2773.95	2396
			Total				0.864	cum	221.65	192.00
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

Sub/H.

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 cutting 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
									38417
								TOTAL Rs.	36213.00
								Say Rs.	0.38 Lakh

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

TECHNICAL REPORT

Name Of Work	:-	E/M Estimate for providing electrification to Sub Health Center at Dist- Durg (C.G.)
Authority	:-	The Executive Engineer (E/M) Div P.W.D. Durg
Amt of Estimate	:-	Rs 120700.00
Report	:-	The original Estt. Of E/F is prepared as per the provision made in the PWD manual the Connected load is 3.2KW as such wiring with three phases supply is provided with Separate main control switch a distribution Board the internal wiring of light & fans is Prepared in concealed rigid PVC conduit System the pro vision for CSEB service Connection charges is made separately in the Estt.
Rate	:-	The rates provided in the estimate are as per C.S.R. for Electric Works in force from 01.11.2002
Specification	:-	The work will be carried out as per general spec. for electric installation in govt. building.

Sub Engineer
PWD. E/M. Sub Division
Durg (C.G.)

Sub Divisional officer
PWD. E/M. Sub Division
Durg (C.G.)

Executive Engineer
PWD. E/M. Division
Durg (C.G.)

O/W ESTT. FOR PROV. E/F TO Sub Health Center AT

BLOCK - _____ DISTT. – DURG (C.G.)

CSR No.	Description of item	Unit	Rate	Qty.	Amount
2	WIRING IN CONCEALED RIGD PVC CONDUIT SYSTEM Point wiring with PVC insulated cable with copper conductor ISI marked in concealed rigid PVC non-metallic conduit of suitable size ISI marked as required as per specification for				
2'1	Light Points / Ex Fan Points				
a	Short Point	Each	128.00	6	768.00
b	Medium Point	Each	207.00	14	2898.00
c	Long Point	Each	307.00	18	5526.00
2'2	Ceiling Fan Point				
b	Medium Point	Each	234.00	-	-
Cc	Long Point	Each	331.00	8	2648.00
2'3	3pin 5Amp socket outlet point on separate				
b	Medium Point	Each	234.00	-	-
c	Long Point	Each	338.00	8	2704.00
2'4	All - Bell / Buzzer Point				
c	Long Point	Each	291.00	1	291.00
2'6	3pin 5 Amp socket outlet point on same board	Each	74.00	8	592.00
2'7	Wiring with PVC insulated cable with Alu./Copper conductor ISI marked in concealed rigid PVC non - metallic conduit ISI marked of suitable size as required. As per specification.				
a	2 wire X 1.5 Sq mm	P.Mtr.	34.00	45	1530.00
b	2 wire X 2.5 Sq mm	P.Mtr.	41.00	51	2091.00
c	4 wire X 2.5 Sq mm	P.Mtr.	57.00	43.5	2479.50
d	6 wire X 2.5 Sq mm	P.Mtr.	72.00	35	2520.00
e	8 wire X 2.5 Sq mm	P.Mtr.	96.00	29.2	2803.20
3'2	Point wiring for 3pin 5 Amp. Socket outlet point with PVC insulated cable with Alu./copper connector ISI marked 15 Amp. F. T. switch etc. in suitable size of the rigid pvc non – metallic conduit ISI marked including 6.0 Sq. mm. Alu. / 4.0 Sq. mm copper earth continuity conductor in concealed conduit wiring system as per specification. (on Separate board)				
c	Long point	Each	575.00	1	575.00
	Extra long-I	Each	834.00	1	834.00
	Extra long-II	Each	1104	1	1104.00
F	Extra long-III	Each	1377.00	1	1377.00
11'1	Supplying and fixing of ISI marked iron clad/ metal clad Double pole and neutral switch fuses conduit entry/ cable glad entry with two earth terminal including fixing on wall with required size flat/ angle iron clamps with necessary material complete i.c. connection etc. as required				
11'1'2	32 Amp.415 Volts	Each	684.00	1	684.00

11'10	Supply and fixing of ISI marked porcelain rewirable fuse unit of approved make or confirming to ISS-2086-1982 including fixing on wooden board with necessary material complete				
10'10'3	32 Amp. 415/volts	Each	86.00	1	86.00
13'2	Supplying and fixing of ISI marked of accepted standard of miniature circuit breaker, suitable to 240/415 volts 50 cycles (7.5 to 10 kA value) A.c. supply but without enclosures				
A	Single Pole				
II	6 Amp to 32 Amp rating	Each	150.00	12	1800.00
13'4	Supply and fixing of approved make accepted standard sheet steel enclosure powder painted distribution board seek consumer unit type inclusive of busbar, neutral bar earth bar and the isolator of capacity as required etc. completer as per specification. (Exclusive of MCB) including fixing on surface / recessed type with necessary material complete.				
	FOR SINGLE PHASE & NEUTRAL D.B.ENCLOSER WITH 40 TO 80 AMP ISOLATOR				
iii	For 9 to 12 MCB with 40 AMP isolator	Each	926.00	1	926.00
14'2	Supply and fixing as per specification batten / angle holder or approved make with necessary material complete	Each	14.00	12	168.00
14'3	Supply and fixing as per specification call bell / buzzer holder or approved make with necessary material complete				
a	230 volts A.C. Ordinary	Each	45.00	-	-
b	230 volts A.C. Deluxe	Each	67.00	1	67.00
14'6	supply and fixing in position incandescent / fluorescent lamp/hpsv/ metal halide lamp of approved make				
l	36/40 watt x 4' fluorescent tube rod	each	42.00	19	798.00
o	18 watt CFL rod	Each	437.00	12	5244.00
r	250 watt metal halide lamp	Each	2141.00	1	2141.00
14'7	Supply and fixing as per specification socket outlet F.T. of approved make with necessary material complete				
a	5 Amp 250 volts 5 pin flush type	Each	13.00	16	208.00
b	15 Amp 250 volts 5 pin flush type	Each	31.00	4	124.00
14'15	supply and fixing of approved make regulator step type electronic for ceiling fan including connection as required	Each	470.00	8	3760.00
15'13	Fixing of house service meter suitable size of Wooden board with necessary material and Connection testing etc. complete as per Specification				
a	single phase meter	Each	42.00	1	42.00

18'4	Earthing with G.I. earth plate 600x600x3 mm thick including accessories and providing masonary enclosure in cement mortor, coveer plate having locking arrangement on the top and G.I. Pipe funnering pipe 20mm dia 2.7 Mtr. Long complete but without charcoal or coke and salt complete as required.	Each	3084.00		3084.00
18'5	Add extra for using salt and charcoal/ coke for copper plate earth electrode as required excavation & refilling	Each	271.00		271.00
18'16	Providing and fixing 400mm G.I. Wire on surface or in recessed for lop earthing as required	P.Mtr.	12.00		504.00
18.39	Providing and laying earth continuity of 4 Sq. mm copper conductor along the rung of final sub circuit pvc conduit in and approved manner	P.Mtr.	17.00		2601.00
18'17	Providing and fixing 4,00 copper wire on surface or in recessed for loop earthling as required	P.Mtr.	36.00		540.00
I	Supply of PVC insulated heavy-duty power cable (confirming IS -1554-1964) 100 Volt grade 2 core, 3 core, 5core, 4 core, ISI marked with ALU. Standard/ solid conductor				
B	ARMOURED 2CORE				
ii	10 Sq. mm				
10	Supplying and installing G.I. pipe for protection of underground cable fixed on wall / support of wall / beam for erection of ceiling fan / down rod for stiff pendent for light luminaries / fan / protective for earthing , lighting conductor down strip/ overhead service line/ for submersible of centrifugal pump for water supply with necessary iron clamp coupler, in and approved cost of excavation , dismantling and other finished masonry items complete.	P.Mtr.	98.00		3724.00
10'1	For 'B' class pipe ISI marked (IS-1161-68)				
10'1'1	12.7 mm	P.Mtr.	72.00		144.00
10'1'3	25mm	P.Mtr.	111.00		388.50
12'21	Lining of under ground cable armored/ unarmored as per specification in Air with approved type of iron clamps complete				
12'21'1	4core cable 10sq. mm	P.Mtr.	15.00		480.00
12'17	Laying of one number PH - PVC insulated and PVC sheathed power cable of grade exceeding 1.1 KV grade of sixe not exceeding 25 sq. mm on surface etc. as required	P.Mtr.	22.00		132.00
I	Supplying , erection and testing of approved make electric ceiling fan of double ball bearing complete shackle, blades and ~~speed regular~~ A C 230-250 Volts including connection fixing regular with all necessary material complete as				
i	1200 mm sweep	Each	1430.00		11440.00

4	Supplying erection and testing of approved make "fresh air fan" A.C. 230-250 volts with connection including frame bolts/ anchor fastener etc. complete finished as required.				
I	300mm sweep	Each	1326.00	6	7956.00
6	Supplying fixing and testing of approved make fluorescent tube fitting rust resistant, stove enameled paint, box type channel with cover complete with copper wound polyester choke, lamp holder, starter holder, starter duly, wired (without tube rod) as per specification & fixing as				
a	1 x 40 watt				
i	Fixing on wall / ceiling with 'j' hook/ anchor hole fastener fixed in ceiling and other necessary material including connection etc. as required.	Each	514.00	15	7710.00
9	Suppluing, fixing and terstion of approved make street/ road light fitting complete with copper wound polyester choke, lamp holder, strarter holder, starter duly wired. side entry with clear acrylic cover with fixing clamps (without tube rod including fixing with 19mm dia G.I. Pipe medium class of required length upto 2 meter for mounting on wall / existing pole on existing 'D' bracket including bending the pipe to the required shape and connection including all material as required.				
I	1 x 40 watt	Each	1456.00	4	5824.00
15	Supplying fixing and testing of approved make of H.D. Asymmetrical beam floodlight fitting for tubular single lamp consisting of cast Alu. Housing ALGLAS coated Alu. Faceted reflector assly. Toughened glass cover, mountion bracket and aiming disc, separate control gear box required fixing & connection as required in position with all necessary material required				
I	250 watt S.V. lamp / metal halide with control gear box.	Each	5681.00	1	5681.00

Total Rs. 97268.20

Add 3.5 % W/C & contingency charges Rs. 3404.38

Add service connection charges for C.S.E.B. Rs. 20000.00

Total Rs.120672.50

Say Rs.1,20,700.00

Sub Engineer
PWD. E/M. Sub Division.
Durg (C.G.)

Sub Divisional officer
PWD. E/M. Sub Division
Durg (C.G.)

Executive Engineer
PWD. E/M. Division
Durg (C.G.)

Sub Health Centre

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

Abstract

S. No.	C.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.)

Health Sub Centre

Details Estimate of Rain water Harvesting System for – Building at → , Distt.-Raipur(C.G.)

Details

S. No.	Cost Data Ref.	Particulars	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 उपस्वास्थ्य केंद्र भवन का मानक प्राक्कलन संलग्न मानचित्र के अनुसार बनाया गया है। ~~मात्रा~~ गणना 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
लोक निर्माण विभाग संभाग क्रं.–2
रायपुर (छ.ग.)