GOVERNMENT OF CHHATTISGARH
PUBLIC WORK DEPARTMENT

NAME OF WORK

Construction of Labor room at C.H.C./P.H.C. Building Raigarh (c.g.)

Head :-

Estimated cost :- Rs . 2.54 lacs

P.W.D. Raigarh Div. Raigarh
Raigarh (c.g.) - 496001

REPORT & SPECIFICATIONS

Name of Work :- **Construction of Labor room at C.H.C./P.H.C. Building Raigarh(c.g.)**

Estimated Cost :- **2.54 lacs**

Authority :-

Necessity :- There is requirement of one labor room for good service

Provision :- The following provisions are made in this estimate :-

1 Structure :-

RCC Framed structure with CC M-20 grade concrete
The sub-structure of building will be brick work with C.S.-25 kg/cm2 and C/M 1:6 and superstructure will be of C.S.-20 kg/cm2 C/M 1:6

2 Doors and windows :-

All the frames of doors and windows will be of Sal wood and door shutters will be paneled doors and windows shutters of bija wood .

3 Plaster & Flooring:-

All Plaster work with c/m-1.6,All the floors will be25mm thick kota stone and wall lining up to 1.50m. Height will be ceramic glazed wall tiles

4 White and Colour washing :-

The inner side of building are Distempering and outer side of Finishing walls with water proofing cement pa

Rates and Specification :- The rates provided in this estimate as per S.O.R. Building works for P.W.D. in forced from 01-06-09 with upto date amendments. The works will be carried out as per C.P.W.D. Specification followed by C.G. P.W.D.

Sub Engineer

Sub Divisional Officer
P.W.D.(B/R)Sub-Division Raigarh

Executive Engineer
PWD Raigarh Div. Rgh.

GENERAL ABSTRACT

Name of work :- **Construction of Labor room at C.H.C./P.H.C. Building Raigarh (c.g.)**

1	Construction of Labor room at C.H.C./P.H.C. Building	**Rs.**	**263500.00**
2	6% for Water Supply and Sanitory Fittings	**Rs.**	**15810.00**
		Total Rs	**279310.00**
	Add 10% for Electrification (Internal 9% and 1% for External)		**27931.00**
	Add 3.5% for W.C.E. & Contingencies		**9775.85**
		Total Rs	**317016.85**
	Expected tender rate 20% below SOR		**-63403**
		Net Rs.	**253613**
		Say Rs	**2.54 lacs**

Sub Engineer

Sub Divisional Officer
P.W.D. (B/R) Sub - Division Raigarh

Executive Engineer
PWD Raigarh Div. Rgh.

Name of work :- **Construction of Labor room at C.H.C./P.H.C. Building Raigarh (c.g.)**

S. No.	Item No.	Item of works	No.	Measurement			Quantity	Rate/Unit	Amount
				L	W	D			
1		2	3	4	5	6	7	8	9
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							
		Foundetion for Column							
		Footing	9	1.50	1.50	1.50	30.38		
		Steps	1	1.20	0.70	0.30	0.25		
			1	1.00	0.70	0.30	0.21		
		For Ground Beam	1	33.30	0.60	0.60	11.99		
						Total	42.83	112.80	4831
2	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).							
		Foundetion for Column							
		Footing	9	1.50	1.50	0.10	2.03		
		Steps	1	1.20	0.70	0.10	0.08		
		Under Floor							
		Lebor Room	1	3.60	2.70	0.10	0.97		
		Toilet	1	1.20	1.50	0.10	0.18		
		Prep. Room	1	2.00	1.90	0.10	0.38		
		Incuvatar Room	1	3.30	2.60	0.10	0.86		
		Waiting	1	3.30	1.80	0.10	0.59		
						Total	5.09	2310.85	11769
3	7.2	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:							
	2.2.2	Cement Mortar 1:6 (1 Cement : 6 Coarse Sand)							
		Long Wall,	2	3.60	0.20	0.60	0.86		
		WR	1	1.20	0.20	0.60	0.14		

1		2	3	4	5	6	7	8	9
			3	3.30	0.20	0.60	1.19		
		Short Wall	2	2.60	0.20	0.60	0.62		
			2	2.30	0.20	0.60	0.55		
		Step	1	1.00	0.60	0.40	0.24		
			1	1.00	0.30	0.20	0.06		
						Total	3.67	2479.60	9105
4	3.2.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).							
		Column Footing							
		C1	9	1.30	1.30	0.20	3.04		
		C1	9	0.80	0.70	0.20	1.01		
		Column Pedastials							
		C1	9	0.30	0.40	0.15	0.16		
		Column up to Plinth Levels							
		C1	9	0.20	0.30	1.35	0.73		
		Column From Plinth Levels to Roof Bottom							
		C1	9	0.20	0.30	3.10	1.67		
		Ground Beam							
			1	33.30	0.20	0.30	2.00		
		Plinth Beam							
		W.C./Bath.	1	2.70	0.10	0.20	0.05		
		Lintel Beam							
			1	33.30	0.20	0.20	1.33		
		WR	1	2.70	0.50	0.075	0.10		
		Plat Form	1	2.60	0.60	0.075	0.12		
		Chajja, Front	1	3.00	0.60	0.075	0.14		
			4	1.90	0.60	0.075	0.34		
			1	0.45	1.20	0.075	0.04		
		Roof Beam & Slab							
		Long	2	3.60	0.20	0.30	0.43		
			3	3.30	0.20	0.30	0.59		
		Short Wall	3	2.60	0.20	0.30	0.47		
			3	1.80	0.20	0.30	0.32		
		Slab	1	8.10	5.6	0.1	4.54		
						Total	**17.09**	2860.95	48890
5	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	1				17.09		
		90Kg/Cum of Conc.		17.09	90.00		1537.99	41.85	64365

1		2	3	4	5	6	7	8	9
6	2.1	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:							
7	2.1.1	Foundations, footings, base of columns and plinth beam in any shape and size.							
		Column Footings							
		C1	36	1.30		0.20	9.36		
		Column Pedastials							
		C1	18	0.30		0.15	0.81		
			18		0.40	0.15	1.08		
		Ground Beam, Bottom and Sides							
		Long ,	2	33.30		0.80	53.28		
		Plinth Beam, B & S							
		W.C./Bath.	1	2.30		0.50	1.15		
			1	1.80		0.50	0.90		
			2	1.10		0.20	0.44		
		Otta,Sides	1	3.60		0.10	0.36		
			1	1.65		0.10	0.17		
		Otta,Sides	1	3.80		0.10	0.38		
			1	1.85		0.10	0.19		
						Total	68.11	73.80	5027
8	2.1.9	Beams, lintels, cantilevers & walls							
		Lintel Beam Sides							
		Long	1	2	33.30	0.20	13.32		
		W.C./Bath.	1	2	1.80	0.20	0.72		
		WR	2	1	1.90	0.50	1.90		
			2	4	2.10	0.10	1.68		
		Chajja, Front	1	1	3.80	1.15	4.37		
						Total	**21.99**	**136.75**	**3007**
9	2.1.8	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)							
		Long	1	2	33.30	0.30	19.98		
		Slab Sides	2	8.1	0.12		1.94		
			2	5.6	0.12		1.34		
						Total	**23.27**	**147.35**	**3429**

1		2	3	4	5	6	7	8	9
10	7.3.1	Brick work with 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: in Cement Morter 1:6							
		Long	1	28.30	0.20	3.10	17.55		
					A	**Total**	**17.55**		
		Deduct :- Openings							
		D1	3	1.00	0.20	2.00	-1.20		
		D3	1	0.90	0.20	2.00	-0.36		
		W1	4	1.50	0.20	1.20	-1.44		
		W5	1	0.90	0.20	1.20	-0.22		
		V2	1	0.80	0.20	0.60	-0.10		
		Shelves	1	1.20	0.20	1.80	-0.43		
		Lintel Beam							
		Long	1	33.30	0.20	0.20	-1.33		
		Roof Beam & Slab							
		Long	1	33.30	0.20	0.30	-2.00		
					B	**Total**	**-7.07**		
					A+B	**N.Total**	**10.47**	**2112.15**	**22118**
11	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.							
		2/3 of excavation					28.55		
						Total	28.55	38.15	1089

1		2	3	4	5	6	7	8	9
12	7.8.2	Half brick thick (9cm) brick masonry with modular well burnt clay bricks of crushing strength not less than 35 kg/sqcm and water absorption not more than 20% in superstructure above plinth level upto floor five level.							
		b) Cement Morter 1:4							
		BetweenToilet & labor	1	2.70		2.00	5.40		
		D3	2	0.80		2.00	-3.20		
						Total	2.20	295.55	650
13	7.1	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.							
		As Above					2.20	49.05	108
14	8.1.2	Providing wood work in frames of doors , windows , clerestory windows and otherr frames wrought framed and fixed in position.							
		b) sal,bijasal,benteak,khair,haldu							
		Door Frame							
		D1	3	5.10			15.30		
		D3	1	4.80			4.80		
		W1	4	10.20			40.80		
		W5	1	4.20			4.20		
		V2	1	2.80			2.80		
		WR	1	7.40			7.40		
						Total	75.30		
			1	75.30	0.08	0.10	0.60	22307.10	13438
15	8.49	providing 40x5mm iron hold fast 40cm. Long i/c fixing to frame with 10mm dia bolts nuts and wooden plug and embededding in C.C. 30x10x15cm. In mix proportion 1:3:6							
		D1	3	6			18.00		
		D3	1	6			6.00		

1		2	3	4	5	6	7	8	9
		W1	4	4			16.00		
		W5	1	4			4.00		
		V2	1	4			4.00		
		WR	1	6			6.00		
						Total	54.00	50.70	2738
16	8.5.2	Providing and fixing 35mm thick panelled or glazed or panelled and glazed shutter frames for doors excluding hinges and panelling. (Area of shutter to be measured without deducting panelling area)							
		b) sal,bijasal,benteak,khair,haldu							
		D1	3	0.93	1.96		5.47		
		D3	1	0.63	1.96		1.23		
		W1	4	3	0.46	1.13	6.24		
		W5	1	1	0.83	1.13	0.94		
		WR	1	1	1.77	1.67	2.96		
						Total	16.83	630.25	10610
17	7.11	Providing and fixing M.S. bright finished or black enameled sliding door bolts with bolts, nuts and necessary iron screws:							
	1	a) 300x16mm							
		D1	3	1			3.00		
						Total	3.00	64.35	193
	2	b) 250x16mm							
		D3	1	1			1.00		
		WR	1	1			1.00		
						Total	2.00	59.95	120
18	8.11	Providing and fixing M.S. bright finished or black enameled Tower bolts (Barrel type) with necessary iron screws:							
		b) 200mm							
		D1	3	1			3.00		
		D3	1	2			2.00		
						Total	5.00	24.10	121
		c) 150mm							
		W1	4	6			24.00		
		W5	1	2			2.00		
		WR	1	2			2.00		
						Total	28.00	18.90	529

1		2	3	4	5	6	7	8	9
19	8.11	Providing and fixing M.S. Handles with necessary screws.complete.							
		a)125mm							
		D1	3	2			6.00		
		D3	1	2			2.00		
		WR	1	2			2.00		
						Total	10.00	42.40	424
		b)100mm							
		W1	4	6			24.00		
		W5	1	2			2.00		
						Total	26.00	37.65	979
20	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.							
		Iron Grill							
		W1	3	3	0.44	1.10	4.36		
		W5	1	1	0.80	1.10	0.8		
		V2	2	1	0.70	0.5	1.4		
						Total	6.56		
		20 Kg/Sqm	1	6.56	20.00		131.12	48.05	6300
21	11.3	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)							
		Inner Side							
		Labor Room	1	2	3.60	1.70	3.40		
			1	2	2.70	1.70	3.40		
		WR	1	1	1.80	1.70	1.70		
		Prep. Room	1	2	1.90	1.70	3.40		
			1	1	2.00	1.70	1.70		
		Incuvatar Room	1	2	3.30	1.70	3.40		
			1	2	2.60	1.70	3.40		
		W.C.	1	2	1.50	1.70	3.40		
			1	2	1.20	1.70	3.40		
		Waiting	1	2	1.80	1.70	3.40		
			1	2	3.30	1.70	3.40		
						Total	**34.00**		

1		2	3	4	5	6	7	8	9
		Deduct :- Opening							
		D1	3	1.00		0.50	-1.50		
		D3	1	0.80		0.50	-0.40		
					B	Total	-1.90		
					A+B	**N.Total**	**32.10**	**79.20**	**2542**
22	11.2.4	12mm thick cement plaster of mix:							
		In Cement Mortar 1:6 (1 cement : 6 fine sand)							
		Outer Side Plaster							
		Long Wall	2	7.50		4.00	60.00		
		Short Wall	2	5.00		4.00	40.00		
		Step Sides	2	0.60		0.40	0.48		
			2	0.30		0.20	0.12		
		Deduct :-							
		Opening :-							
		D1	3	1.00		2.00	-6.00		
		D3	1	0.90		2.00	-1.80		
		W1	4	1.50		1.20	-7.20		
		W5	1	0.90		1.20	-1.08		
		V2	1	0.80		0.60	-0.48		
						Total	-16.56		
						N.Total	**67.48**	**68.40**	**4616**
23	12.7	Providing and laying ceramic glazed floor tiles 300x300mm conforming to IS : 15622 of approved make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete.							
		In colours such as White, Ivory, Grey, Fume Red Brown,							
		W.C	1	1.20	1.50		1.80		
						Total	**1.80**	**672.65**	**1211**

1		2	3	4	5	6	7	8	9
24	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.							
		W.C	2	1.50	1.50		4.50		
			2	1.20	1.50		3.60		
		Deduct :- D3	1	0.80	1.50		-1.20		
						Total	**6.90**	**532.35**	**3673**
25	11.1.2	6mm thick cement plaster of mix: In Cement mortar 1:4 (1 cement : 4 fine sand)							
		Ceiling :- Labor Room	1	3.60	2.70		9.72		
		WR1	1	1.80	1.80		3.24		
			3	0.30	1.20		1.08		
		Prep.	1	2.00	1.90		3.80		
		Incuvatar Room	1	3.30	2.70		8.91		
		Waiting	1	1.80	3.30		5.94		
		Plate Form	1	2.60	0.60		1.56		
					A	**Total**	**34.25**		
		Chajja W1 ,B	4	1.90	0.70		5.32		
		Back Chajja , W5	1	1.40	0.70		0.98		
		Chajja V2, B	1	1.20	0.30		0.36		
					B	**Total**	**6.66**		
					A+B	**G.Total**	**40.91**	**70.55**	**2886**
26	12.5	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)							
		Labor room	1	3.30	2.70		8.91		
		WR	1	1.20	0.30		0.36		
		Prep. Room	1	2.00	1.90		3.80		
		Incuvatar Room	1	3.30	2.60		8.58		
		Waiting	1	1.80	3.30		5.94		

1		2	3	4	5	6	7	8	9
		StepTreads	2	1.00	0.30		0.60		
		Door Siill					0.00		
		D1	4	1.00	0.20		0.80		
						Total	**28.99**	**584.65**	**16949**
27		On new work (Two or more coats)							
		As per Inner Side Plaster plaster					32.10		
		As per Ceiling Plaster **A**					34.25		
						Total	66.35		
		Tiles Area					-6.90		
						N.Total	**66.35**	**29.75**	**1974**
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.							
		Labor Room	1	2	3.60	1.50	3.00		
			1	2	2.70	1.50	3.00		
		WR	1	1	1.80	1.50	1.50		
		Prep. Room	1	2	1.90	1.50	3.00		
			1	1	2.00	1.50	1.50		
		Incuvatar Room	1	2	3.30	1.50	3.00		
			1	2	2.60	1.50	3.00		
		W.C.	1	2	1.50	1.50	3.00		
			1	2	1.20	1.50	3.00		
		Waiting	1	2	1.80	1.50	3.00		
			1	2	3.30	1.50	3.00		
						Total	**30.00**		
		Deduct :- Opening							
		D1	3	1.00		1.50	-4.50		
		D3	1	0.80		1.50	-1.20		
					B	Total	-5.70		
					A+B	**N.Total**	**24.30**	**532.35**	**12936**
29	14.11 .1	Finishing walls with water proofing cement paint to give an even shade.							
		On new work (Two or more coats)							
		As per ouer side Plaster					67.48		

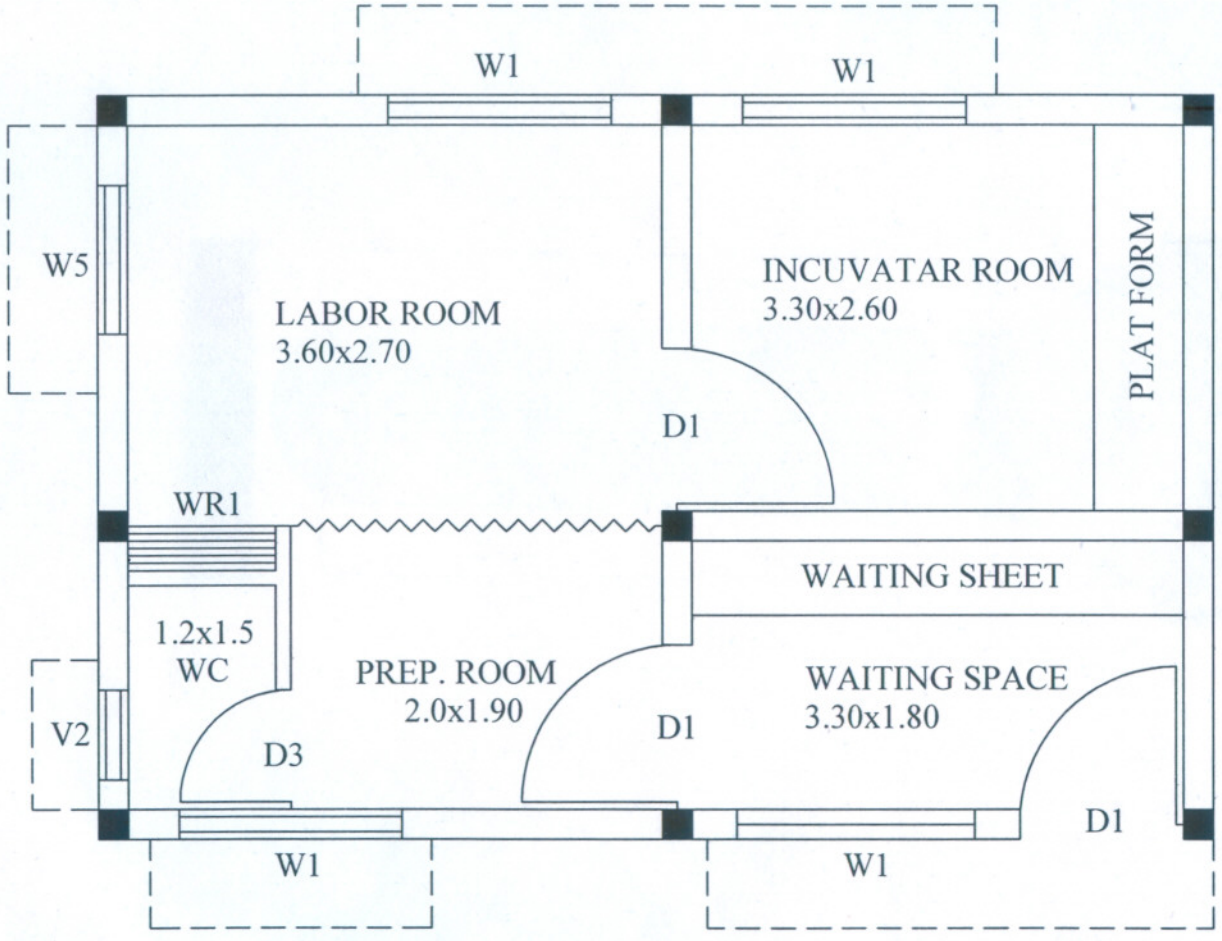
1		2	3	4	5	6	7	8	9
		Ceiling Area for Chajja					6.66		
						Total	**74.14**	**24.95**	**1850**
30	14.2	Applying priming coat with ready mixed primer							
		a) On wood work							
		D1	3	2.60	1.00	2.00	15.60		
		D3	1	2.60	0.70	2.00	3.64		
		W1	4	2.40	1.50	1.20	17.28		
		W5	1	2.40	0.90	1.20	2.59		
		V2	1	2.40	0.80	0.60	1.15		
		WR	1	2.60	1.90	2.00	9.88		
						Total	50.14	16.90	847
31	14.1	Painting new exterior surface (two or more coats) with PREMIUM TEXTURED paint as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:							
		On new work (Two or more coats)							
		As Above	1				50.14		
		Griil	1	1.00		6.56	6.56		
						Total	56.70	73.50	4167
								Total Rs	**263491**
								Say	**263500**

Sub Engineer

Sub Divisional Officer
P.W.D. (B/R)Sub-Division Raigarh

Executive Engineer
PWD Raigarh Div. Rgh.

CONSTRUCTION OF LABOUR ROOM AT C.H.C./P.H.C. BUILDING'S OF RAIGARH(C.G.)



SCHEDULE OF DOORS/WINDOWS	
TYPE	SIZE
D1	1.00X2.00M
D3	0.80X2.00M
W1	1.50X1.20M
W5	0.90X1.20M
V2	0.80X0.60M
WR1	1.20X1.80M

Plinth area	37.5 sqm.
Plinth area	403.5 sqf

SUB-ENGINEER

SUB-DIVISIONAL OFFICER
P.W.D.SUB-DIVISION (B/R) RAIGARH

EXECUTIVE ENGINEER
P.W.D.RAIGARH-DIV. RAIGARH