

**GOVERNMENT OF CHHATTISGARH**

**PUBLIC WORKS DEPARTMENT**



**DETAILS ESTIMATE FOR CONSTRUCTION OF  
ANGANBADI BHAVAN AT.....DISTT-  
RAIPUR**

**ESTIMATED COST - Rs. 12.00 Lacs**

**EXECUTIVE ENGINEER  
PUBLIC WORKS DEPARTMENT  
DIVISION, NO.- 3 RAIPUR (C.G.)**

## REPORT & SPECIFICATION

NAME OF WORK :- DETAIL ESTIMATE FOR CONSTRUCTION OF ANGANBADI BHAVAN  
AT ..... - AT DISTT- RAIPUR.

ESTIMATE COST :- Rs. 12.00 Lacs

AUTHORITY :- Govt. OF C.G.

NECESSITY :- AS PER REQUIREMENT OF DIRECTED MAHILA AVM BALVIKAS  
VIBHAG 458/288/ DATE 12/04/2024 NAVA RAIPUR.

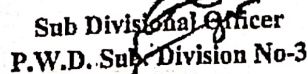
Provisions :- Following provisions have been made in the estimate.:-


- 1 Structure and foundation- R.C.C. framed structure with M-20 grade concrete and R.C.C. column Footing foundation is provided
- 2 Plinth- R.C.C. plinth beam and brick Masonary (0.2 m Wide) in cement mortar 1:5 in Foundation and Plinth is provided
- 3 Superstructure Masonary- Flyash brick Masonary in cement mortar 1:6 for 20 cm walls
- 4 Plaster- 15 mm thick cement plaster on the rough side of brick wall in cement mortar 1:5 and 12 mm thick plaster on other side in cement mortar 1:5 will be done
- 5 Door Window- Frame m.s anglel frame and shutter flush door shutter for doors and for window steel shutter M.S. sheet 1 mm thick are provided
- 6 Flooring- Rajim.stone with polished and ceramic glazed wall tiles are provided
- 7 90:00 M Deep Tube well is Provided

RATE  
SPECIFICATIONS

Rates are provided in the estimate as per S.O.R. of building work issued by Engineer In Chief PWD Raipur w.e.f. 01.01.2015 The work should be carried out as per specification of C.P.W.D. which is applied in C.G.P.W.D.

  
SUB-ENGINEER

  
Sub Divisional Officer  
P.W.D. Sub. Division No-3  
Raipur (C.G.)

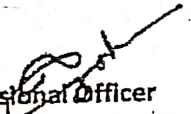
  
Executive Engineer  
PWD Division No.3 Raipur (C.G.)

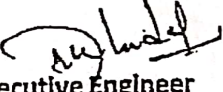


DETAILS ESTIMATE / ABSTRACT FOR CONSTRUCTION OF AANGANBADI BHAVAN  
AT ..... DISTT-RAIPUR (C.G)

GENRAL ABSTRACT			
S.NO	PARTICULAR	AMOUNT	REMARKS
1	DETAIL ESTIMATE FOR CONSTRUCTION OF ANGANBADI BHAVAN AT .....DISTT- RAIPUR .	1110832.243	
2	ELECTRIFICATION 8.00%	88866.58	
	TOTAL RS.	1199698.82	
	SAY Rs.IN LACS	12.00	

  
Sub Engineer

  
Sub Divisional Officer  
P.W.D Sub Division No-03  
Raipur (C.G)

  
Executive Engineer  
P.W.D Division No-03  
Raipur (C.G)

# **DETAILS ESTIMATE / ABSTRACT FOR CONSTRUCTION OF AANGANBADI** **BHAVAN AT .....** **DISTT- RAIPUR (C.G)**

No.   
 Item no.   
 1 2

S.No.	Item no.	Descriptions of Items	Mesurments				Qty.	Unit	Rate	Amount
			Nos	L	B	D/H				
1	2	3	4	5	6	7	8	9	10	11
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.								
	1.1.1	In all types of soils.								
		For column pits	20	1.50	1.50	1.60	72.00			
		Below plinth (outer)								
		H-wall	2	10.70	0.30	0.30	1.93			
		V-wall	2	12.60	0.30	0.30	2.27			
			2	4.20	0.30	0.30	0.76			
			3	3.50	0.30	0.30	0.95			
			2	2.00	0.30	0.30	0.36			
		V-wall	2	8.60	0.30	0.30	1.55			
		Septic tank	1	3.30	2.10	1.80	12.47			
							92.277	cum	185.00	17071.25
-2	1.6	1.6 Extra for every additional lift of 1.5 m or part thereof. 1.6.1 All types of soils								
		For column pits	20	1.5	1.5	0.1	4.5			
		septic tank	1	3.3	2.1	0.3	2.079			
							6.579	cum	26.50	174.34
3	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work								
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
		For column pits	20.00	1.50	1.50	0.10	4.50			
		Below plinth								
		H-wall	2	10.70	0.30	0.10	0.64			
			2	12.60	0.30	0.10	0.76			
			2	4.20	0.30	0.10	0.25			
			3	3.50	0.30	0.10	0.32			
			2	2.00	0.30	0.10	0.12			
		V-wall	2	8.60	0.30	0.10	0.52			
		septic tank	1	3.30	2.10	0.10	0.69			
		On floor								
		ANC ROOM	1.00	4.20	2.00	0.10	0.84			
		HALL	1.00	4.20	6.00	0.10	0.74			
		WASH AREA	1.00	2.00	4.30	0.10	0.72			
		PASSAGE	1.00	2.00	3.70	0.10	0.74			
		Store room	1.00	3.50	2.70	0.10	0.95			
		KITCHEN	1.00	3.50	3.60	0.10	1.26			
		HAND WASH	1.00	1.80	2.20	0.10	0.40			
		TOILET	1.00	1.50	1.50	0.10	0.23			
		OTS	1.00	3.50	3.60	0.10	1.26			
		Steps & Ramp portion (VER)	1.00	2.40	3.60	0.10	0.86			
4	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.					15.78	cum	2970.00	46878.48





No.	Item no.	Descriptions of items	Mesurments				Qty.	Unit	Rate	Amount
			Nos.	L	B	D/H				
1	2	3	4	5	6	7	8	9	10	11
	3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		for column footing base	20	1.30	1.30	0.35	11.83			
		pedestal	20	0.8	0.8	0.15	1.92			
		for column upto PL	12	0.20	0.30	1.65	1.188			
		UPTO GL	6	0.20	0.20	0.90	0.216			
			2	0.30	0.30	0.90	0.162			
		for ground beam/plinth beam								
		H-wall	2	10.70	0.20	0.30	1.28			
			2	12.60	0.20	0.30	1.51			
			2	4.20	0.20	0.30	0.50			
			3	3.50	0.20	0.30	0.63			
			2	2.00	0.20	0.30	0.24			
		V-wall	2	8.60	0.20	0.30	1.03			
						(A)	20.518			
		FOR COLUMN UPTO SLAB	12	0.20	0.30	3.30	2.376			
			4	0.20	0.20	3.30	0.528			
			2	0.20	0.20	2.10	0.168			
		garden + ots area	2	0.30	0.30	2.10	0.378			
		for lintel beam								
		H-wall D	1	1.90	0.20	0.20	0.08			
		D1	4	1.40	0.20	0.20	0.22			
		D2	1	1.20	0.20	0.20	0.05			
		CG	1	2.20	0.20	0.20	0.09			
		WV	7	1.90	0.20	0.20	0.53			
			1	1.60	0.20	0.20	0.06			
		SLAB	1	9.20	11.10	0.12	12.25			
			1	3.00	3.60	0.12	1.30			
		SLAB BEAM H-wall	2	10.70	0.20	0.20	0.86			
		0.20-0.12= 0.08	2	12.60	0.20	0.08	0.40			
			2	4.20	0.20	0.08	0.13			
			3	3.50	0.20	0.08	0.17			
			2	2.00	0.20	0.08	0.06			
		V-wall	2	8.60	0.20	0.08	0.28			
			2	2.00	0.20	0.08	0.06			
		V-wall	2	8.60	0.20	0.08	0.28			
		chhajja	1	20.30	0.60	0.08	0.9744			
		Septic tank slab	1	2.80	1.60	0.10	0.448			
		platform kitchen	1	3.60	0.50	0.10	0.18			
		platform ots	1	6.60	0.50	0.10	0.33			
						(B)	22.229			
		Total (A+B)					42.75	cum	4163.00	177954.93
5	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		same qty as above item no 3(B)					22.23	cum	97.50	2167.31
6	3.12	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 in foundation and plinth all complete:								
	3.12.2	Thermo-Mechanically treated bars FE 500D	42.75		@	95.00	4060.946	kg	54.50	221321.56
7	2.1	Providing and fixing form work including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								



S.No.	Item no.	Descriptions of items	Mesurments				Qty.	Unit	Rate	Amount
			Nos	L	B	D/H				
1	2	3	4	5	6	7	8	9	10	11
	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
		for column footing								
		for column base	20x4	1.50	-	0.30	36.00			
			20x4	0.80	-	0.25	16.00			
		for column upto PL	16x2	0.20	-	1.85	29.60			
			16x2	0.30	-	1.85	44.40			
			2X2	0.20	-	1.85	1.48			
			2X2	0.20	-	1.85	1.48			
			2X4	0.30	-	1.85	4.44			
							133.40			
						(A)	133.40	sqm		
		for ground beam/plinth beam								
		H-wall	2	10.70	-	0.30	6.42			
			2	12.60		0.30	7.56			
			2	4.20		0.30	2.52			
			4	4.20	0.20		3.36			
			3	3.50	0.20		2.10			
			6	3.50		0.30	6.30			
			2	2.00	0.20		0.80			
			4	2.00		0.30	2.40			
		V-wall	2	8.60	0.20		3.44			
			4	8.60		0.30	10.32			
						(B)	45.22			
						(A+B)=	178.62	sqm	139.00	24828.18
8	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape								
		for column upto slab	12x2	0.20	-	3.60	17.28			
			12x2	0.30	-	3.60	25.92			
		DIFFERENCE=2.10-0.75=1.35 M	6X2	0.20		1.35	3.24			
			6X2	0.20		1.35	3.24			
			2X4	0.30		1.35	3.24			
							52.92	sqm	183.50	9710.82
9	2.1.8	Beams, lintels, cantilevers & walls								
		for lintel beam								
		H-wall	7	1.90	-	0.20	2.66			
			14	1.90		0.20	5.32			
			2	1.90		0.20	0.76			
			1	1.90	0.20		0.38			
			1	1.90	0.20		0.38			
			4	1.40		0.20	1.12			
			4	1.40	0.20		1.12			
			1	2.00		0.20	0.40			
			2	2.00		0.20	0.80			
		V-wall	2	8.60	0.20		3.44			
		SLAB BEAM								
		H-wall	2	10.70	-	0.30	6.42			
			2	12.60		0.30	7.56			
			2	4.20		0.30	2.52			
			6	3.50		0.30	6.30			
			4	2.00		0.30	2.40			
		V-wall	2	8.60		0.30	5.16			
							46.74	Sqm	202.00	9441.48
10	2.1.13	Weather shade, chhajja, Cornices and mouldings								
		chhajja	1	20.30	0.60		12.18			
			1	20.30	0.08		1.624			
		platform kitchen	1	3.60	0.50		1.8			
			1	3.60	0.10		0.36			



S.No.	Item no.	Descriptions of Items	Mesurments				Qty.	Unit	Rate	Amount
			Nos	L	B	D/H				
1	2	3	4	5	6	7	8	9	10	11
		platform ots	1	6.60	0.50		3.3			
			1	6.60	0.10		0.66			
11	2.1.4	Edge of slab, breaks in floor and walls upto 200mm.					19.92	Sqm	294.00	5857.66
		S.T	1X2	4.4			8.80			
		SLAB	1	30.5			30.5			
12	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)					39.30	RMT	34.00	1336.20
		Septic tank slab	1	2.40	1.20		2.88			
		platform kitchen	1	3.60	0.50		1.8			
			1	3.60	0.10		0.36			
		platform-ots	1	6.60	0.50		3.3			
			1	6.60	0.10		0.66			
		SLAB	1	9.20	11.10		102.12			
			1	3.00	3.60		10.8			
		Septic tank slab	1	2.40	1.20		2.88			
							121.92	Sqm	235.00	28651.20
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.								
		50% OF EXCAVATION QTY	92.277		46.1385		46.1385	cum	65.00	2999.00
14	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								
		On floor								
		ANC ROOM	1.00	4.20	2.00	0.75	6.30			
		HALL	1.00	4.20	6.00	0.75	0.74			
		WASH AREA	1.00	2.00	4.30	0.75	0.72			
		PASSAGE	1.00	2.00	3.70	0.75	5.55			
		Store room	1.00	3.50	2.70	0.75	7.09			
		KITCHEN	1.00	3.50	3.60	0.75	9.45			
		HAND WASH	1.00	1.80	2.20	0.75	2.97			
		TOILET	1.00	1.50	1.50	0.75	1.69			
		OTS	1.00	3.50	3.60	0.75	9.45			
		Steps & Ramp portion (VER)	1.00	2.40	3.60	0.38	3.28			
		EXCAVATION QTY					92.28			
		FOUNDATION					-22.5			
		REUSE QTY					-50.64			
							66.38	cum	371.00	24625.1992
15	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
		H - Wall upto plith level	3	9.70	0.20	0.55	3.20			
		V - Wall upto plinth	2	11.50	0.20	0.55	2.53			
			2	3.80	0.20	0.55	0.84	7.2		
			2	0.90	0.20	0.75	0.27			
			1	2.40	0.20	0.75	0.36			
		upto slab level	2	9.70	0.20	3.10	12.03			
			4	11.50	0.20	3.10	28.52			



S.No.	Item no.	Descriptions of items	Measurements				Qty.	Unit	Rate	Amount
			Nos	L	B	D/H				
1	2	3	4	5	6	7	8	9	10	11
			2	4.20	0.20	3.10	5.21			
			2	2.40	0.20	3.10	2.98			
			3	3.50	0.20	3.10	6.51			
			1	1.50	0.20	3.10	0.93			
		garden + ots area	1	9.70	0.20	1.55	3.01			
			2	3.80	0.20	1.55	2.36			
		deduction opening D	-1	1.2	0.2	2.1	-0.504			
		D1	-4	1.00	0.20	2.10	-1.68			
		D2	-1	0.80	0.20	2.10	-0.34			
		W/V	-7	1.50	0.20	1.20	-2.52			
		WK	-1	1.50	0.20	0.90	-0.27			
			-7	1.50	0.20	0.60	-1.26			
		V	-1	0.80	0.20	0.60	-0.10			
		CG	-1	1.60	0.20	2.10	-0.67			
		MAIN GATE	-1	2.40	0.20	2.10	-1.01			
		Septic tank slab	2	3.00	0.30	1.00	1.80			
			2	1.20	0.30	1.00	0.72			
			2	2.80	0.20	1.20	1.34			
			2	1.20	0.20	1.20	0.58			
							57.58	cum	3263.00	181877.00
16	3.13	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 form work.								
			2	9.70	0.20	0.05	0.19			
			4	11.50	0.20	0.05	0.46			
			2	4.20	0.20	0.05	0.08			
			2	2.40	0.20	0.05	0.05			
			3	3.50	0.20	0.05	0.11			
			1	1.50	0.20	0.05	0.02			
			1	9.70	0.20	0.05	0.10			
			2	3.80	0.20	0.05	0.08			
							1.08	cum	4247.00	4582.51
17	3.15	Applying a coat of hot bitumen VG-10 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.								
			2	9.70	0.20		3.88			
			4	11.50	0.20		9.20			
			2	4.20	0.20		1.68			
			2	2.40	0.20		0.96			
			3	3.50	0.20		2.10			
			1	1.50	0.20		0.30			
			1	9.70	0.20		1.94			
			2	3.80	0.20		1.52			
							17.70	sqm	93.50	1654.95
18	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
							65.86			
							-7.2			
							58.66			
							58.66	cum	121.00	7097.86



No.	Item no.	Descriptions of items	Mesurments				Qty.	Unit	Rate	Amount
			Nos	L	B	D/H				
1	2	3	4	5	6	7	8	9	10	11
19	9.16	Providing and fixing M.S. frames of doors, windows, ventilators and cupboards joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer								
		Door								
		D.40X40X5MM	1	5.60		5.60				
		D1	4	5.2		20.80				
		D2	1	5.00		5.00				
				PER MTR	2.97	31.40	93.258			
		V 25X25X3MM	7	4.20		29.40				
			1	2.80		2.80				
					1.1	32.20	35.42			
		MAIN GATE					150.00			
							278.68	Kg	73.50	20482.83
20	9.13	Providing and fixing steel door/window with M.S. sheet 1mm thick, frame of angle iron, diagonal braces of angle/ flat iron of suitable size, 3.00 mm M.S. gusset plates at junctions and corners, all necessary fittings complete including applying a priming coat of red oxide zinc chromate primer.								
		FOR WINDOW	7	1.50		1.20	12.60			
			1	1.50		0.90	1.35			
			7	1.50		0.60	6.30			
		VENTILATION	1	0.80		0.60	0.48			
					KG	11.80	@	20.73		
							244.61	kg	75.00	18346.05
21	9.11	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.								
			1.00	1.60		2.10	3.36	sqm	3330.00	11188.80
22	9.15	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 welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
		For window	7	1.50		1.20	12.60			
			1	1.50		0.90	1.35			
		Venti.	2	0.80		0.60	0.96			
							14.91			
						KG	15.00			
							223.65	kg	67.50	15096.38



S.No.	Item no.	Descriptions of Items	Measurements				Qty.	Unit	Rate	Amount
			Nos	L	B	D/H				
1	2	3	4	5	6	7	8	9	10	11
23	8.13	Providing and fixing flush door shutters, conforming to IS 2202 (Part 1), interior grade, commercial type, core of block board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges.								
	8.13.2	35 mm. thick (single leaf)								
		For door:								
		D	1	1.20		2.10	2.52			
		D1	4	1.00		2.10	8.40			
		D2	1	0.80		2.10	1.68			
							12.60	each	1370.00	17262.00
24	8.15	Extra for double leaf shutter instead of single leaf.								
		Qty same as above	2.52				2.52			
							2.52	each	52.00	131.04
25	8.94	Providing and fixing M.S. bright finished or black enameled Butt hinges IS : 1341 marked with necessary iron screws:								
	8.94.1	125x65x2.12mm	36.00				36.00	each	30.00	1080.00
26	8.99	Providing and fixing M.S. bright finished or black enameled sliding door bolts with bolts, nuts and necessary iron screws:								
	8.99.1	300x16mm								
		D	1.00				1.00			
		D1	4.00				4.00			
		D2	1.00				1.00			
							6.00	each	77.50	465.00
27	8.100	Providing and fixing M.S. bright finished or black enameled door latch with necessary iron screws:								
	8.100.1	300x20x6mm								
		D	2.00				2.00			
		D1	4.00				4.00			
		D2	1.00				1.00			
							7.00	each	53.50	374.50
28	8.102	Providing and fixing M.S. bright finished or black enameled Tower bolts (Barrel type) with necessary iron screws:								
	8.102.1	250 mm								
			5.00				5.00			
			2.00				2.00			
							7.00	each	34.50	241.50
29	8.103	Providing and fixing M.S. bright finished or black enameled handles with necessary iron screws:								
	8.103.1	125 mm								
		D	4.00				4.00			
		D1	8.00				8.00			
		D2	2.00				2.00			
							14.00	each	51.00	714.00
30	8.130	Providing and fixing hanging powder coated aluminium door stopper with necessary M.S. screws etc complete.								
	8.130.1	Single								
		D	2.00				2.00			
		D1	4.00				4.00			
							6.00	each	27.50	165.00



S. No.	Item no.	Descriptions of items	Measurements				Qty.	Unit	Rate	Amount
			Nos	L	B	D/H				
1	2	3	4	5	6	7	8	9	10	11
23	8.13	Providing and fixing flush door shutters, conforming to IS 2202 (Part 1), interior grade, commercial type, core of block board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges.								
	8.13.2	35 mm. thick (single leaf)								
		For door:								
		D	1	1.20		2.10	2.52			
		D1	4	1.00		2.10	8.40			
		D2	1	0.80		2.10	1.68			
							12.60	each	1370.00	17262.00
24	8.15	Extra for double leaf shutter instead of single leaf.								
		Qty same as above	2.52				2.52			
							2.52	each	52.00	131.04
25	8.94	Providing and fixing M.S. bright finished or black enameled Butt hinges IS : 1341 marked with necessary iron screws:								
	8.94.1	125x65x2.12mm	36.00				36.00	each	30.00	1080.00
26	8.99	Providing and fixing M.S. bright finished or black enameled sliding door bolts with bolts, nuts and necessary iron screws:								
	8.99.1	300x16mm								
		D	1.00				1.00			
		D1	4.00				4.00			
		D2	1.00				1.00			
							6.00	each	77.50	465.00
27	8.100	Providing and fixing M.S. bright finished or black enameled door latch with necessary iron screws:								
	8.100.1	300x20x6mm								
		D	2.00				2.00			
		D1	4.00				4.00			
		D2	1.00				1.00			
							7.00	each	53.50	374.50
28	8.102	Providing and fixing M.S. bright finished or black enameled Tower bolts (Barrel type) with necessary iron screws:								
	8.102.1	250 mm								
			5.00				5.00			
			2.00				2.00			
							7.00	each	34.50	241.50
29	8.103	Providing and fixing M.S. bright finished or black enameled handles with necessary iron screws:								
	8.103.1	125 mm								
		D	4.00				4.00			
		D1	8.00				8.00			
		D2	2.00				2.00			
							14.00	each	51.00	714.00
30	8.130	Providing and fixing hanging powder coated aluminium door stopper with necessary M.S. screws etc complete.								
	8.130.1	Single								
		D	2.00				2.00			
		D1	4.00				4.00			
							6.00	each	27.50	165.00



S.No.	Item no.	Descriptions of items.	Measurements				Qty.	Unit	Rate
			Qty	L	B	D/H			
1	2	3	4	5	6	7	8	9	10
			2	9.20		0.30	5.52		
			1	15.60		0.30	4.68		
			1	10.50		4.35	45.68		
			1	8.60		4.35	74.82		
			2	7.70		4.35	33.50		
			1			B	191.19		
							341.47	sqm	107.00
									36536.80
34	11.5	Neat Cement Punning.							
		chhajja top					15.24		
		front & back	2	12.70	0.60		11.76		
		left side	2	9.80	0.60		11.04		
		right side	2	9.20	0.60		11.04		
		septic tank	2	2.40		2.30	5.52		
			2	1.20		2.30	54.60	sqm	33.00
									1801.80
35	12.3	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.							
	12.3.1	40 mm thick	1	2.40	1.20		2.88	sqm	222.00
									639.36
36	12.7	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.							
	12.7.2	Size above 200x300mm							
		Toilet	4	1.50		1.20	7.20		
		HANDWASH	2	2.10		1.20	5.04		
			2	1.80		1.20	4.32		
		Deduction for door	-1	0.80		1.20	-0.96		
			-1	1.50		1.20	-1.80		
							13.80	sqm	587.00
									8100.60
37	12.56	25mm thick Local RAJIM/ Red Flag stone slab flooring laid over 20mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid over & jointed with grey cement slurry mixed with pigments to match the shade of the stone i/c grinding, rubbing and polishing.							
		ANC ROOM	1.00	4.20	2.00		8.40		
		HALL	1.00	4.20	6.00		25.20		
		WASH AREA	1.00	2.00	4.30		8.60		
		PASSAGE	1.00	2.00	3.70		7.40		
		Store room	1.00	3.50	2.70		9.45		
		KITCHEN	1.00	3.50	3.60		12.60		
		HAND WASH	1.00	1.80	2.20		3.96		
		TOILET	1.00	1.50	1.50		2.25		
		(VER)	1.00	2.40	0.90		2.16		
			1.00	52.00	0.10		5.20		
							85.22	sqm	516.00
									43973.52



10/01/2021

Item no.	Descriptions of items	Mesurments				Qty.	Unit	Rate	Amount
		Nos	L	B	D/H				
2	3	4	5	6	7	8	9	10	11
38	12.34	Pre-cast Terrazzo tiles 22mm thick with marble chips of size upto 6mm in skirting and risers of steps and exceeding 30cm in height on 12mm thick cement plaster 1:3 (1 cement : 3 coarse sand) jointed with neat cement slurry including rubbing and polishing complete with tiles of.							
	12.34.2	Medium shade using approximately. 50% white cement and 50% ordinary cement.							
		steps & ramp portion	1	1.20	1.20	1.44			
		for steps	3	1.20	0.30	1.08			
			4	1.20		0.72			
						3.24	sqm	682.00	2209.68
39	12.65	12.65 Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength of 250. kg/sq.cm 12.65.1 Plain/ normal coloured precast interlock concrete block							
			1	2.40	1.80	4.32			
		ots	1	3.50	3.60	12.60			
						16.92	sqm	436.00	7377.12
40	14.12	Applying one coat of cement primer on wall surface (applied @ 0.80 litrs/10 sqm) complete.							
		same qntty 12 mm plaster				203.73			
		same qntty 15 mm plaster				341.5			
		same qntty 6 mm plaster				85.22			
						630.42	sqm	23.00	14499.57
41	14.9	Distempering with acrylic washable distemper to give an even shade.							
	14.9.1	On new work (Two or more coats)							
		same qntty inner side 12 mm plaster				203.73			
		same qntty inner side 15 mm plaster				150.28			
		same qntty inner side 6 mm plaster				85.22			
						439.23	sqm	38.00	16690.74
42	14.14	Finishing walls with water proofing cement paint of required shade to give an even shade.							
	14.14.1	On new work (Two or more coats applied @ 3.84 kg/10.sqm)							
		same qntty outer side 15 mm plaster				191.19			
		same qntty outer side 6 mm plaster				38.04			
						229.23	sqm	41.00	9398.43
43	14.20	Applying priming coat on wood work with ready mixed primer.							
		D	1X2X1.1	1.2	2.1	6.552			
		D1	4x2x1.3	1.00	2.10	21.84			
		D2	1x2x1.3	0.8	2.10	4.368			
						26.208	sqm	23.50	615.89
	14.21	Applying priming coat on steel work with red oxide zinc chromate primer.							
		W	7x2x1.1	1.50	1.20	15.84			
			1X2X1.1	1.50	0.90	2.97			
		V	1x2x0.5	0.8	0.60	1.08			
		CG	1x2x1.5	1.60	2.10	12.6			



S.No.	Item no.	Descriptions of Items	Measurements				Qty.	Unit	Rate	Amount	Item no.
			Nos	L	B	D/H					
1	2	3	4	5	6	7	8	9	10	11	12
		Grill	8x2x0.5	1.5		1.20	14.4				
							46.89	sqm	17.50	826.58	
44	14.22	Painting on new work (two or more coats) to give an even shade with: 14.22.1 Satin synthetic enamel paint									
		D	1X2X1.2	1.2		2.1	6.048				
		D1	4x2x1.2	1.00		2.10	20.16				
		D2	X2X1.2	0.8		2.10	4.368				
		W	7x2x1.1	1.50		1.20	27.72				
		V	2x2x0.5	0.8		0.60	0.96				
		CG	1x1x1.5	1.60		2.10	5.04				
		Grill	7x1	1.5		1.20	12.6				
							76.896	sqm	46.30	3560.28	
45	18.23	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 :18.23.1 Size 450x300x150mm									
			1				1	Each	2504.00	2504.00	
46	18.1	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 :									
	18.1.3	White Orissa pattern W.C. pan of size 580x440 mm	1				1.0	each	2899.00	2899.00	
47	18.17	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of									
	18.17.1	White Size 550x450 mm	1				1.0	each	1430.00	1430.00	
48	18.76	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete:									
	18.76.1	75mm dia pipe	1	5.00			5.00	mtr	182.00	910.00	
		110mm dia pipe	2	4.30			8.60				
			1	10.00			10.00				
		rain water	1	5.00			5.00				
							23.60	mtr	267.00	6301.20	
49	18.77	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									
	18.77.1	Tee/ Tee with door/ Bend 45°/ Bend 90° single tee with door									



Item no.	2	Descriptions of items	Mesurments				Qty.	Unit	Rate	Amount
			Nos	L	B	D/H				
	3		4	5	6	7	8	9	10	11
		110x110x110mm	4				4.00	each	154.00	616.00
		plain bend								
		110mm bend	4				4.00	each	154.00	616.00
18.77.3		Vent covel								
18.77.3		75mm	1				1.00	each	34.00	34.00
18.77.5		P trap 110mm x 110mm long	1				1.00	each	227.00	227.00
50	18.75.9	Nahani trap 110x 75mm	3				3.00	each	90.50	271.50
51	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	1	30.00			30.00	mtr	222.00	6660.00
52	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	1	15.00			15.00	mtr	149.00	2235.00
		25 mm dia. nominal bore	1	7.00			7.00	mtr	258.00	1806.00
53	19.11	Providing and fixing G.I. Union in G.I. pipe (New work) including cutting and threading the pipe and making long screws etc. complete:								
		15 mm nominal bore	3				3.00	each	85.00	255.00
		25 mm nominal bore	5				5.00	each	117.00	585.00
54	19.13	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality:								
	19.13.2	Bib cock (350 grams)	4				4.00	each	237.00	948.00
		Stop cock (350 grams)	3				3.00	each	237.00	711.00
55	19.15	Providing and fixing stainless steel drain fall of approved make/quality.	2				2.00	each	51.00	102.00
56	19.16	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):								
	19.16.1	25 mm nominal bore	1				1.00	each	436.00	436.00
57	19.17	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :								
	19.17.3	25mm nominal bore	1				1.00	each	432.00	432.00
58	19.42	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 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	1	1000.00			1000.00	lit	7.30	7300.00

S.No.	Item no.	Descriptions of items	Measurements				Qty.	Unit	Rate	Amount
			Nos	L	B	D/H				
1	2	3	4	5	6	7	8	9	10	11
59	19.47	Constructing masonry Chamber 30x30x30 cm, inside with modular well burnt clay bricks of 35 kg/cm <sup>2</sup> in cement mortar 1:4 (1 cement : 4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick	2				2.00	each	754.00	1508.00
60	19.52	Constructing masonry Chamber 60x60x75 cm, inside with modular well burnt clay bricks of 35 kg/cm <sup>2</sup> in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :	1				1.00	each	4133.00	4133
61	20.31	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				1.00	each	1709.00	1709.00
62	20.18	Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for drilling of tube well within the selected habitation, including photography, interpretation of resistivity data and submission of report in the desired format along with resistivity readings, necessary graph and photographs. (only successful point is	1				1.00	point	1502.00	1502.00
63	21.1	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90 metre depth below ground level.								
	21.1.1	All type of soil	15				15.00	mtr	339.00	5085.00
	21.1.1.3	150mm dia								







# DETAILED ESTIMATE FOR RAIN WATER HARVESTING

S.N O.	SOR ITEM NO.	ITEM OF WORKS	NO.	L	B	D	QTY	UNIT	RATE	AMOUN T
1	2	3	4	5	6	7	8	9	10	11
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 soils.	1	1.50	1.50	1.80	4.05	CUM	185.00	749.00
2	1.6	Extra for every additional lift of 1.5 m or part thereof.								
	1.6.1	In all types of soils.	1	1.50	1.50	0.30	0.68	CUM	26.50	18.00
3	3.1	Providing and laying nominal mix plain cement concrete with crushed tone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	1	1.50	1.50	0.20	0.45	CUM	2970.00	1337.00
4	18.76	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete.								
	18.76.2	110 mm dia pipe.	6	4.50			27.00	METRE	267.00	7209.00
5	18.77	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.								
	18.77.1	Tee/ Tee with door/ Bend 45°/ Bend 90°								
	18.77.1.2	110 mm	12				12.00	EACH	154.00	1848.00
6	20.5	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :								
	20.5.2	150 mm dia. R.C.C. Pipe	1	90.00			90.00	METRE	353.00	31770.00



SOR ITEM NO.	ITEM OF WORKS		NO.	L	B	D	QTY	UNIT	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10	11
7	19.51	Constructing masonry Chamber 60x60x75 cm, inside with modular well burnt clay bricks of 35 kg/ cm <sup>2</sup> in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :	4				4.00	EACH	4356.00	17424.00
8	21.1	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log; including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90 metre depth below ground level.								
	21.1.1	All types of soil								
	21.1.1.4	200 mm dia	1	20.00			20.00	METRE	371.00	7420.00
	21.1.2	Rocky strata including Boulders,								
	21.1.2.4	200 mm dia	1	0.50			0.50	METRE	457.00	229.00
9	21.4.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) slotted pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.								
	21.4.4	200 mm nominal size dia.	1	20.50			20.50	METRE	979.00	20070.00

S.N O.	SOR ITEM NO.	ITEM OF WORKS	NO.	L	B	D	QTY	UNIT	RATE	AMOUN T
1	2	3	4.	5	6	7	8	9	10	11
10	21.18	Providing and fixing filter of minimum 100 litre capacity for roof top rain water harvesting through tube well consisting of two layered HDPE tank with five layers (each layers of minimum 100 mm) consist of coarse sand, 4mm, 6mm, 8mm & 12 mm gravels with stainless steel wire mesh fixed between each layer with suitable length and sufficient numbers of 110 mm dia PVC pipe pieces, in the bottom of tank to support the above layer including fixing of inlet and out let P.V.C. pipe of required diameter upto 2 metre length on each side, Cement Concrete platform of required size complete as directed by Engineer in.charge. (excluding cost of tubewell and inlet and outlet pipe beyond 2 metre)	1	1000.00			1000.00	LITRE	18.50	18500.00
11	21.19	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter	2				2.00	EACH	644.00	1288.00
									<b>TOTAL</b>	<b>107862.00</b>
									say	1.08 lacs

SUB ENGINEER

SUB DIVISIONAL OFFICER  
PWD SUB DIVISION - NO-03  
NAVARAIPUR

EXECUTIVE ENGINEER  
PWD DIVISION NO-03  
NAVARAIPUR