

MODEL ESTIMATE FOR CONSTRUCTION OF SHG WORKSHED WITHIN PASCHIM MEDINIPUR DISTRICT

Item no	Description of item	No	length	Breadth	Height	Quantity	Unit	SK	SSK	USK	Cement (bags)	Sand (m³)	Stone (m³)	Bricks (nos)	Others
1	Earth work in excavation in mixed medium hard soil with soft morum, hard earth, kankar, etc. to be excavated by pick axe, lead upto 80 ft and lift upto 5 ft @ 62 cft /Usk.														
	Wall foundation	1	30.025	0.750	0.750	16.889	Cum			9.60					
					Total=	16.889	Cum								
2	Sand filling in foundation trenches or plinth with fine sand, in layer by layer not exceeding 150 mm including watering and ramming etc. layer by layer complete. 4.6 cum per Usk.														
	fdn	1	30.025	0.750	0.150	3.378									
	floor	1	3.050	2.750	0.275	2.307									
		1	3.050	0.875	0.275	0.734									
		1	2.750	4.375	0.275	3.309									
					Total=	9.727	Cum			2.11					
3	Cement concrete(1:3:6) with graded stone chips 20 mm down excluding shuttering and re-inforcement if any in ground floor and foundation @ 2cum/2Sk & 3 Usk and cement(0.156cum/cum, sand 0.47 cum /cum, & stonechips 0.94 cum /cum.														
	Foundation	1	30.025	0.750	0.150	3.378									
	Floor	1	3.050	2.750	0.100	0.839									
		1	3.050	0.875	0.100	0.267									
		1	2.750	4.375	0.100	1.203									
					Total=	5.687	Cum	5.69		8.53	25.56	2.67	5.35		
4	Cement concrete(1:1.5:3) with graded stone chips 20 mm down excluding shuttering and re-inforcement if any in ground floor and foundation @ 2cum/2Sk & 3 Usk and cement(0.2776cum/cum, sand 0.45 cum /cum, & stonechips 0.90 cum /cum.														
	Plinth beam	1	31.025	0.250	0.200	1.551									
	Lintel	1	31.025	0.250	0.150	1.163									
						2.715	Cum	2.71		4.07	21.72	1.22	2.44		
5	Hire and labour charges for shuttering with centering and necessary staging upto 4 m. using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting, fixing and striking out after completion of works. (upto roof of ground floor) where vertical prop not required. 2nos Sk & 1 nos Usk @ 14 sqm.														
	Tie beam	2	31.025		0.200	12.410									

Item no	Description of Item	No	Length	Breadth	Height	Quantity	Unit	SK	SSK	USK	Cement (bags)	Sand (m³)	Stone (m³)	Bricks (nos)	Others
	Wall inner side	1	13.600		2.250	30.600									
		1	9.100		2.250	20.475									
		1	18.000		2.250	40.500									
		3	4.375		0.600	7.875									
	Deduction for D	2.67	1.000		2.100	5.600									
	D1	0.67	0.750		2.100	1.050									
	W	4.00	1.000		1.200	4.800									
	F/L	1.33	0.600		0.450	0.360									
	Total=					155.410	Sqm	17.27		25.90	20.43	2.86			
10	Neat Cement Punning. 2 nos Sk. & 1 nos Usk @ 50 Sqm. Cement 0.152 Cum % Sqm.														
	Outside	1	25.100	0.450		11.295									
	Inside	1	13.600	0.300		4.080									
		1	9.100	1.200		10.920									
		1	18.000	0.300		5.400									
	Total=					31.695	Sqm	1.2678		0.63	1.38				
11	25mm. thick damp proof course with cement concrete with stone chips (1:1.5:3) [with graded stone aggregate 10 mm nominal size] and admixture of water proofing compound as per manufacturer's specification followed														
12	Artificial stone in floor, dado, staircase etc with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) including smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works using cement @ 1.75 kg/sq.m all complete including all materials and labour. In ground floor. 3 mm. thick topping (High polishing grinding on this item is not permitted with ordinary cement). Using grey cement	1	30.025	0.125		3.753	sqm	0.42		0.63	0.60	0.04	0.08		
	25 mm th	1	3.300	3.000		9.900									
		1	3.300	1.000		3.300									
		1	4.125	4.500		18.563									
						31.763	sqm	6.62		3.97	7.76	0.36	0.71		
13	Wood work in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame excluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should be corrected upto three decimals).														
	Neem, Jam, Jackfruits														
	D	4	5.2	0.1	0.075	0.156									
	D1	1	4.95	0.1	0.075	0.037									
	W	6	4.4	0.1	0.075	0.198									
	F/L	2	2.1	0.1	0.075	0.032									
						0.423	cum	8.45		2.82					wood 0.423cum

Item no	Description of item	No	Length	Breadth	Height	Quantity	Unit	SK	SSK	USK	Cement (bags)	Sand (m³)	Stone (m³)	Bricks (nos)	Others
14	Z-batten shutters of door and window as per design having tongued and groove half lap jointed as per direction of the Engineer-in-Charge including fitting and fixing shutter in position, but excluding the cost of hinges and other fittings in ground floor.														
	Shutter with 25mm thick planks, 19mm thick battens.														
	Other Local Wood														
	D	4	0.875	2.000		7.000									
	D1	1	0.625	2.000		1.250									
	W	6	0.875	1.075		5.644									
	F/L	2	0.475	0.325		0.309									wood
						14.203 sqm		28.41	7.10						0.40cum
15	White washing including cleaning and smoothening surface thoroughly.														
	Two coats (sl. 9-10)					123.715 sqm		4.12		2.06					lime 50 kg gun 350gm
16	Colour washing with "ELLA" with a coat of white wash priming including cleaning and smoothening surface thoroughly:														
	One coat (Qty same as above)					123.715 sqm		1.65		1.65					lime 27 kg, gun 200 gm, pigment 9 packets
17	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.														
	W	6	0.85	1.050		5.355									
	F/L	2	0.45	0.300		0.270									Oil primer
						5.625 sqm		0.28							0.55 ltr
18	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.														
	D	8	2.100	1.000		16.800									
	D1	2	2.100	0.750		3.150									
	W	12	1.200	1.000		14.400									
	F/L	4	0.600	0.450		1.080									Oil primer
						35.430 sqm		1.61							4.25 ltr

Item no	Description of Item	No	Length	Breadth	Height	Quantity	Unit	SK	SSK	USK	Cement (bags)	Sand (m³)	Stone (m³)	Bricks (nos)	Others
19	Painting with best quality synthetic enamel paint of approved make and brand including smoothing surface by sand papering etc. including using of approved putty etc. on the surface, if necessary :														
	a) On timber or plastered surface :														
	Two coats (with any shade except white)														
	Qty same as above					35.430	sqm	2.95							Oil Paint 7.19 ltr
	b) On steel or other metal surface :														
	Two coats (with any shade except white)					5.625	sqm	0.47							Oil Paint 1.00 ltr
20	Supervisor for overall supervision of the work								3						
Total=							100.18	10.10	85.84	102.88	11.73	8.58	5663.44		
Say=							100	10	86	103	12.00	9.00	5663		

Sl No	Labour component:-	Quantity	Rate / Md	Amount
i	Skilled	100	Rs 382 / Md	38200.00
ii	Semi-Skilled	10	Rs 286.5 / Md	2865.00
iii	Un-Skilled	86	Rs 191/Md	16426.00
Total				Rs.= 57491.00

SI No	Description of item	No	Length	Breadth	Height	Quantity	Unit	SK	SSK	USK	(bags)	Salid (m ³)	Stone (m ³)	Bricks (nos)	Units
Materials Component:-															
1	Cement											103	Bag	379.47	39085.41
2	Course Sand											12.00	Cum	749.70	8996.40
3	Stone-Chips 20 mm											9.00	Cum	2236.50	20128.50
4	Bricks											5663	Nos	8.50	48135.50
5	Fine sand											9.727	Cum	400.05	3891.24
6	MS reinforcement (Non TATA)											213.103	kg	59.37	12651.92
7	Hire charge of wooden planks for shuttering											24.71	Sqm	150.00	3705.75
8	Black annealed wire											10.00	kg	110.00	1100.00
9	Nail											5.00	kg	80.00	400.00
10	Polythene											5.00	kg	110.00	550.00
11	MS tubuler roof truss with febrication and all complete							LS				300.00	kg	66.60	19980.00
12	Supplying, fitting and fixing GCI Sheet for roofing with all complete 2x8.10x2.50=40.50 sqm											40.50	Sqm	721.28	29211.84
13	Supplying, fitting and fixing GI ridge 0.63 mm with 300 mm lap											8.10	mt	425.60	3447.36
14	Local wood(Neen, Jam, Jackfruits)											0.423	cum	40000.00	16905.00
15	Other local wood											0.400	cum	40000.00	16000.00
16	Primer											4.80	ltr	150.00	720.00
17	Paint											8.19	ltr	250.00	2047.50
18	Lime											57.00	kg	25.00	1425.00
19	Gum											0.55	kg	100.00	55.00
20	Colour pigment											9.000	pkt	60.00	540.00
21	Door & window Fittings											13.000	nos	500.00	6500.00
22	Display Board & photo												LS		2650.00
														Total=	238126.42

Abstract of Cost:-	Particulars	Amount (Rs.)
	Total Wage Cost=	57491.00
	Total materials Cost=	238126.42
	Total=	295617.42
	Say	Rs.= 295617.00

Ratio = 5.56 : 94.44

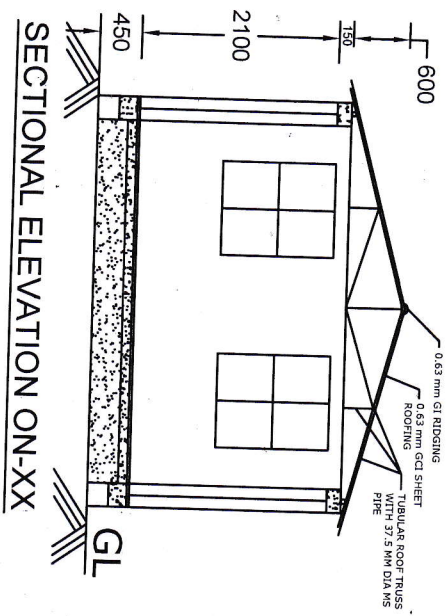
Rate analysis of stone chips (Mithnapore station yard)		
Rate at station yard incl GST 5%	Rs.	1785.00
Loading & unloading	Rs.	77.00
Carriage upto 5.00 km	Rs.	124.00
5-10 km	Rs.	54.50
10-20 km	Rs.	101.00
20-30 km	Rs.	95.00
Total	Rs.	2236.50

Prepared By

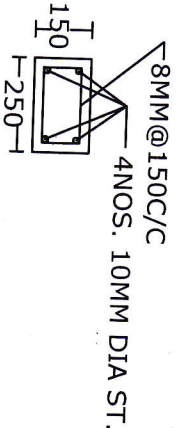
Checked By

Approved By

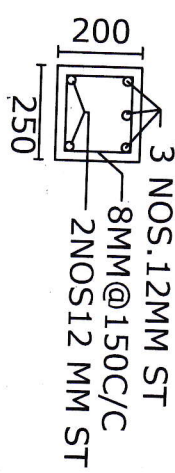
MODEL DRAWING FOR CONSTRUCTION OF WORKSHED FOR SHG WITHIN PASCHIM MEDINIPUR DISTRICT



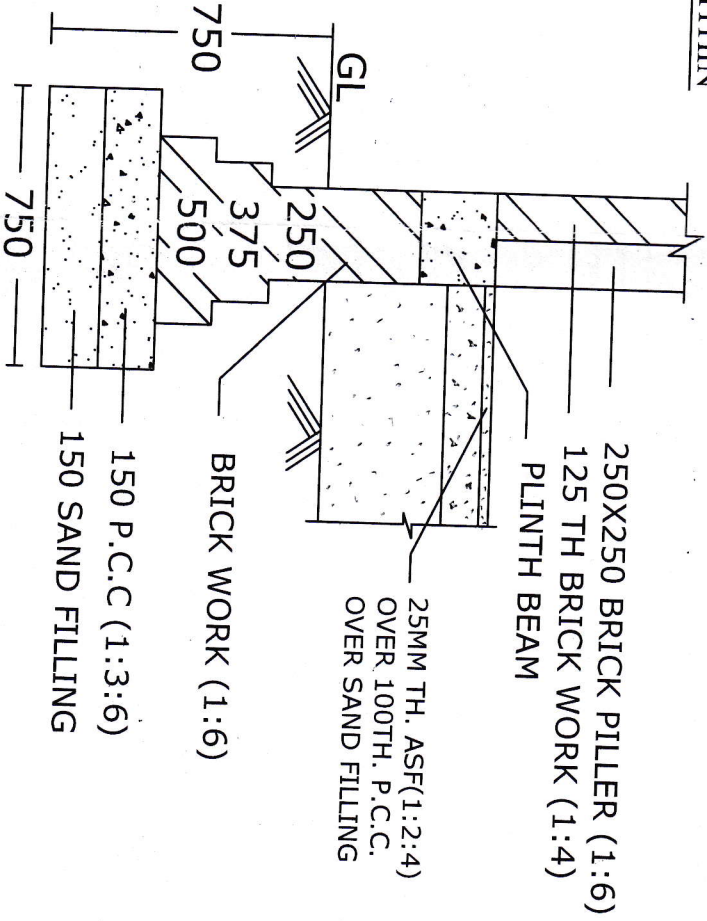
SECTIONAL ELEVATION ON-XX



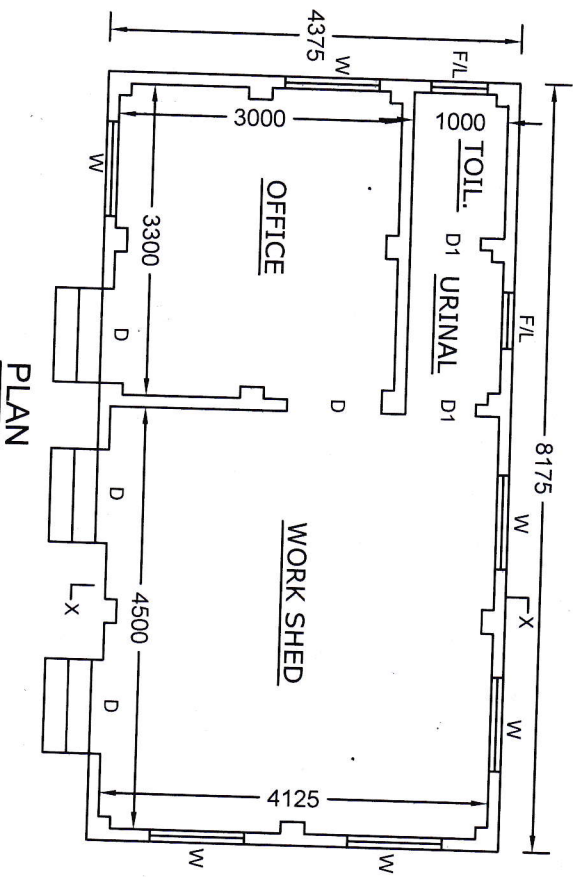
C/S OF LINTEL



C/S OF PLINTH BEAM



DETAILS OF FOUNDATION (NTS)



PLAN

- OPENINGS:
- D-1000X2100
 - D1-750X2100
 - W-1000X1200
 - F/L-600X450

PREPARED BY:

CHECKED BY:

APPROVED BY: