

Office of the Chief Engineer LSGD

MATERIAL RECOVERY FACILITY (510 sq.ft/47.43 sq.m) - MODEL ESTIMATE

Detailed Estimate

(Cost Index Applied for this estimate is 50.98%)

SI No	Description	No	L	B	D	CF	Quantity	Remark
1 building								
1	2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil							
	Foundation							
	(A) all around walls	1	27.700	0.500	0.500		6.925	
	(B) Longitudinal walls (m)	1	4.600	0.500	0.500		1.150	
	(c) cross wall	2	1.800	0.500	0.500		0.900	
							Total Quantity	8.975 cum
							Total Deducted Quantity	0.000 cum
							Net Total Quantity	8.975 cum
							Say 8.975 cum @ Rs 251.23 / cum	Rs 2254.79
2	50.6.1.1 Solid block masonry using pre cast solid blocks (factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part 1 of 1979 for foundation and plinth with thickness 20 cm and above in: CM 1:6 (1 cement : 6 coarse sand) etc complete							
	Foundation							
	(A) all around walls	1	27.700	0.400	0.400		4.432	
	(B) Longitudinal walls (m)	1	4.700	0.400	0.400		0.753	
	(c) cross wall	2	1.900	0.400	0.400		0.609	
	basement							
	(A) all around walls	1	27.700	0.300	0.450		3.740	
	(B) Longitudinal walls (m)	1	4.800	0.300	0.450		0.648	
	(c) cross wall	2	2.000	0.300	0.450		0.540	
	super structure							
	(A) all around walls	1	27.700	0.200	3.000		16.620	

	(B) Longitudinal walls (m)	1	4.900	0.200	3.000		2.941		
	(c) cross wall	2	2.100	0.200	3.000		2.521		
	deduction								
	G.I.post fixing block concrete	5	0.300	0.300	0.850		-0.382		
	hall outer wall	2	6.450	0.200	2.000		-5.160		
	hall outer wall	1	4.900	0.200	2.000		-1.960		
	door	3	0.800	0.200	2.100		-1.008		
	Entrance hall	1	1.200	0.200	1.000		-0.240		
	window	2	1.100	0.200	1.500		-0.660		
	Total Quantity						32.804 cum		
	Total Deducted Quantity						-9.410 cum		
	Net Total Quantity						23.394 cum		
	Say 23.394 cum @ Rs 5352.56 / cum						Rs 125217.79		
3	4.3.1 Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations, footings, bases for columns								
	G.I. post Foundation pedestal	5	0.300	0.300	0.850		0.383		
	Total Quantity						0.383 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						0.383 sqm		
	Say 0.383 sqm @ Rs 292.83 / sqm						Rs 112.15		
4	4.1.3 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)								
	G.I post Foundation pedestal	5	0.300	0.300	0.850		0.383		
	Total Quantity						0.383 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						0.383 cum		
	Say 0.383 cum @ Rs 8276.65 / cum						Rs 3169.96		
5	10.16.1 Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including								

	cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.Hot finished welded type tubes							
	Roof Truss work							
	a, 65 mm dia GI pipe for post	2*2+1	3.850			6.42	123.585	unit weight kg/m
	b, wall plate Rect. Hollow section 80x40x2.60mm	2	9.350			4.55	85.085	
	-do-	2	4.900			4.55	44.590	
	c, common rafter Rect. Hollow section 60x40x2.60mm	2*5	3.310			3.73	123.464	
	d, collar Rect.Hollow section 50x25x2.6mm	5	2.100			2.71	28.455	
	e,purlin Square Hollow section	2*4	9.850			1.69	133.172	
	Total Quantity						538.351 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						538.351 kg	
	Say 538.351 kg @ Rs 136.26 / kg						Rs 73355.71	
6	<p>12.50</p> <p>Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+0.05%), total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.</p>							
	Roofing sheet							
	Roof	2	9.950	3.400			67.660	
	Total Quantity						67.660 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						67.660 sqm	
	Say 67.660 sqm @ Rs 830.99 / sqm						Rs 56224.78	
7	<p>12.51.1</p> <p>Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05%) total coated thickness, zinc coating 120 grams per sqm as per IS:mm(+0.05%) total coated thickness, Zinc</p>							

	coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/self tapping screws complete:Ridges plain (500-600 mm)							
	Ridge	1	0.600	9.950			5.970	
	Total Quantity						5.970 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						5.970 metre	
	Say 5.970 metre @ Rs 544.21 / metre						Rs 3248.93	
8	4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)							
	Foundation							
	(A) all around walls	1	27.700	0.500	0.100		1.385	
	(B) Longitudinal walls (m)	1	4.600	0.500	0.100		0.230	
	(c) cross wall	2	1.800	0.500	0.100		0.181	
	Flooring							
	hall	1	6.150	4.650	0.075		2.145	
	office	1	1.850	1.750	0.075		0.243	
	toilet	1	0.950	0.950	0.075		0.068	
	dressing room	1	1.850	1.250	0.075		0.174	
	Total Quantity						4.426 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						4.426 cum	
	Say 4.426 cum @ Rs 6761.11 / cum						Rs 29924.67	
9	13.1.1 12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)							
	plastering							
	all round(outer basement)	1	28.900	0.450			13.005	
	all round(outer super)	1	28.500	3.000			85.500	
	inner(hall)	1	22.300	3.000			66.900	
	inner(office)	1	8.200	3.000			24.600	
	inner(toilet)	1	4.800	3.000			14.400	

	inner(washing Area)	1	1.400	3.000			4.200		
	inner(dressing room)	1	7.200	3.000			21.600		
	Deductions								
	dadoing tiles for toilet walls	1	4.800	1.500			-7.199		
	doors	3	0.800	2.100			-5.040		
	window	2	1.100	1.500			-3.300		
	Entrance of hall	1	1.200	1.000			-1.200		
	Grill portion of hall walls (length)	2	6.450	2.000			-25.800		
	- do - (width)	1	4.900	2.000			-9.800		
	Total Quantity						230.205 sqm		
	Total Deducted Quantity						-52.339 sqm		
	Net Total Quantity						177.866 sqm		
	Say 177.866 sqm @ Rs 261.12 / sqm						Rs 46444.37		
10	<p>11.37 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.</p>								
	flooring								
	office	1	2.300	2.200			5.060		
	toilet	1	1.200	1.200			1.440		
	washing Area	1	0.900	1.400			1.260		
	dressing room	1	2.300	1.700			3.910		
	Total Quantity						11.670 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						11.670 sqm		
	Say 11.670 sqm @ Rs 1039.27 / sqm						Rs 12128.28		
11	<p>11.36 Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.</p>								
	dadoing								

	Toilet	1	4.800	1.500			7.200	
	Total Quantity						7.200 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						7.200 sqm	
	Say 7.200 sqm @ Rs 1124.50 / sqm						Rs 8096.40	
12	13.8.2 15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix:1: 4 (1 cement : 4 fine sand)							
	flooring							
	Hall	1	6.250	4.900			30.626	
	Total Quantity						30.626 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						30.626 sqm	
	Say 30.626 sqm @ Rs 364.62 / sqm						Rs 11166.85	
13	13.39.1 Colour washing such as green, blue or buff to give an even shade:New work (two or more coats) with a base coat of white washing with lime							
	all round(outer basement)	1	28.900	0.450			13.005	
	all round(outer super)	1	28.500	3.000			85.500	
	inner(hall)	1	22.300	3.000			66.900	
	inner(office)	1	8.200	3.000			24.600	
	inner(toilet)	1	4.800	3.000			14.400	
	inner(washing Area)	1	1.400	3.000			4.200	
	inner(dressing room)	1	7.200	3.000			21.600	
	Deductions							
	dadoing tiles for toilet walls	1	4.800	1.500			-7.199	
	doors	3	0.800	2.100			-5.040	
	window	2	1.100	1.500			-3.300	
	Entrance of hall	1	1.200	1.000			-1.200	
	Grill portion of hall walls (length)	2	6.450	2.000			-25.800	
	- do - (width)	1	4.900	2.000			-9.800	
	Total Quantity						230.205 sqm	

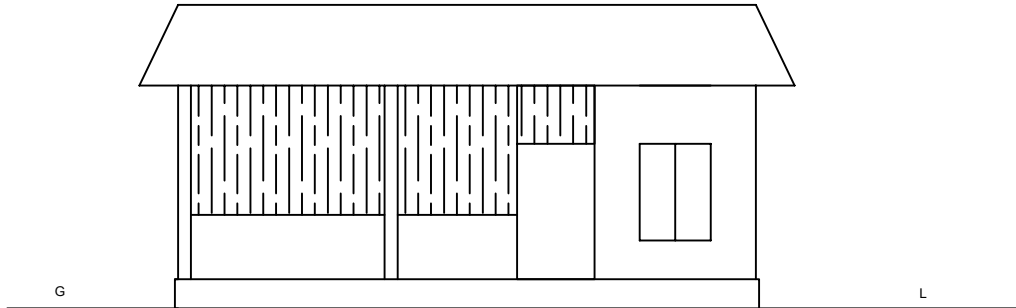
		Total Deducted Quantity					-52.339 sqm	
		Net Total Quantity					177.866 sqm	
		Say 177.866 sqm @ Rs 35.63 / sqm					Rs 6337.37	
14	17.1.1 Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm Sand Cast Iron P or S trap, 10 litter low level white P.V.C.flushing cistern, including flush pipe, manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever require:White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests							
	w.c.pan	1				1.000		
		Total Quantity					1.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					1.000 each	
		Say 1.000 each @ Rs 5275.54 / each					Rs 5275.54	
15	17.7.1 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps							
	wash basin	1				1.000		
		Total Quantity					1.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					1.000 each	
		Say 1.000 each @ Rs 3470.35 / each					Rs 3470.35	
16	50.9.1.1 Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately), using good quality Anjili wood /jack wood							
	vertical frame (door)	3*2	0.100	0.075	2.100	0.095		
	horizontal frame (door)	3*2	0.100	0.075	0.800	0.037		
	vertical frame(window)	2*3	0.100	0.075	1.500	0.068		
	horizontal frame (window)	2*2	0.100	0.075	1.100	0.033		
		Total Quantity					0.233 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					0.233 cum	

	Say 0.233 cum @ Rs 103455.59 / cum							Rs 24105.15
17	9.48.1 Providing and fixing M.S. Grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.Fixed to steel windows by welding							
	providing 12 mm dia MS rod for window grill	2*14	1.100			0.89	27.413	
	providing 12x5mm M S flat for hold fsat	4	0.450			0.5	0.900	
	Total Quantity							28.313 kg
	Total Deducted Quantity							0.000 kg
	Net Total Quantity							28.313 kg
	Say 28.313 kg @ Rs 158.00 / kg							Rs 4473.45
18	50.9.4.1 Providing and fixing paneling or paneling and glazing in paneled or paneled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured) paneling for paneled or paneled and glazed shutters 25 mm to 40 mm thick using good quality Anjili/ Jack wood							
	door	3	0.700	1.980			4.158	
	window	2*2	0.330	1.350			1.783	
	Total Quantity							5.941 sqm
	Total Deducted Quantity							0.000 sqm
	Net Total Quantity							5.941 sqm
	Say 5.941 sqm @ Rs 2477.55 / sqm							Rs 14719.12
19	10.25.2 Item Shifted to head 14 as item 14.74Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works							
	supplying and laying MS angles and rods for providing compartment and Grill work							
	Grill work (hall portion)	2	6.250	2.000		8.4	210.000	
	- do -	1	4.900	2.000		8.4	82.321	
	compartment (length)	1	4.900	2.000		8.4	82.321	
	- do - (cross)	1	2.500	2.000		8.4	42.000	
	Total Quantity							416.642 kg
	Total Deducted Quantity							0.000 kg
	Net Total Quantity							416.642 kg

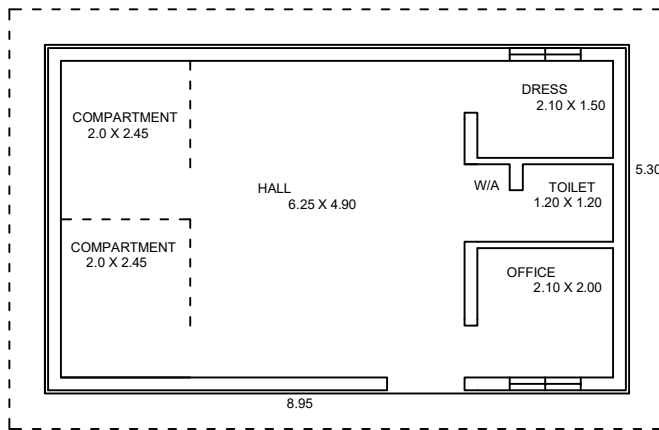
	Say 416.642 kg @ Rs 129.77 / kg						Rs 54067.63	
20	51.19.ST1 Supplying and installing ready made PVC Septic tank including the cost of carriage, trenching, placing at the level below ground level as specified as per the direction of engineer in charge (Provision for CC/RCC/Sand/06mm aggregate for the preparation of bed shall be paid separately) 1. Below 15 flush capacity							
		1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 17116.00 / each						Rs 17116.00	
Service Tax Amount								Rs 0.0
Total with Service Tax								Rs 500909.31
SI No	Description	No	L	B	D	CF	Quantity	Remark
2 Water supply & Sanitary arrangements including over head water tank with stand, pipe line, fittings etc(PREPARE AS PER SITE CONDITIONS)								
Lump-Sum Total							Rs 14000.00	
SI No	Description	No	L	B	D	CF	Quantity	
Remark	3 Electrification & Service connection							
Lump-Sum Total							Rs 10000.00	
SI No	Description	No	L	B	D	CF	Quantity	
Remark	4 unforeseen							
Lump-Sum Total							Rs 91.00	
TOTAL Rs 525000.00								
Rounded Total Rs 5,25,000								
Rupees Five Lakh Twenty Five Thousand Only								

(Cost Index Applied for this estimate is 50.98%)

MATERIAL RECOVERY FACILITY CENTRE



ELEVATION



PLAN

SPECIFICATIONS

FOUNDATION - 0.40 X 0.40
BASEMENT - 0.30 X 0.45
SUPERSTRUCTURE - 0.20m thick and
3.00m height
DOOR - 1.20 X 2.10 (1 No)
DOOR - 0.80 X 2.10 (2 Nos)
WINDOW - 1.10 X 1.50 (2 Nos)
PLINTH AREA - 8.95 X 5.30 = 47.43sq.m
ALL DIMENSIONS ARE IN M