

Office of the Chief Engineer LSGD

MATERIAL RECOVERY FACILITY (1000 Sq.feet/92.90 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
<b>1 Piched Roof building 92.80 sq.m or 1000 sq.fts</b>								
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							
	All round wall	1	38.400	0.500	0.600		11.520	
	Longitudinal (m) wall	1	7.300	0.500	0.600		2.190	
	Cross wll	2	2.200	0.500	0.600		1.320	
	Ramp	1	3.200	1.200	0.250		0.960	
	Total Quantity						15.990 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						15.990 cum	
	Say 15.990 cum @ Rs 251.23 / cum						<b>Rs 4017.17</b>	
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							
	All round wall	1	38.400	0.400	0.500		7.680	
	Longitudinal wall	1	7.400	0.400	0.500		1.481	
	Cross wall	2	2.300	0.400	0.500		0.920	
	Basement							
	All round wall	1	38.400	0.300	0.450		5.184	
	Longitudinal wall	1	7.500	0.300	0.450		1.013	
	Cross wall	2	2.400	0.300	0.450		0.648	
	Super structure							
	All round wall	1	38.400	0.200	3.000		23.040	
	Longitudinal wall	1	7.600	0.200	3.000		4.561	
	Cross wall	2	2.500	0.200	3.000		3.000	

		Deduction							
	Hall portion (length wise)	2	8.700	0.200	2.000		-6.960		
	-do - ( width wise )	1	8.000	0.200	2.000		-3.200		
	Foundation of GI post	7	0.300	0.300	0.850		-0.536		
	Door	3	0.800	0.200	2.100		-1.009		
	Entrance (Hall )	1	1.200	0.200	1.000		-0.240		
	window	2	1.100	0.200	1.500		-0.661		
							Total Quantity	47.527 cum	
							Total Deducted Quantity	-12.606 cum	
							Net Total Quantity	34.921 cum	
							Say 34.921 cum @ Rs 5352.56 / cum	<b>Rs 186916.75</b>	
3	4.3.1 Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations, footings, bases for columns								
	GI post foundation	7	1.200	0.850			7.141		
							Total Quantity	7.141 sqm	
							Total Deducted Quantity	0.000 sqm	
							Net Total Quantity	7.141 sqm	
							Say 7.141 sqm @ Rs 292.83 / sqm	<b>Rs 2091.10</b>	
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)								
	GI Post foundation block	7	0.300	0.300	0.850		0.536		
							Total Quantity	0.536 cum	
							Total Deducted Quantity	0.000 cum	
							Net Total Quantity	0.536 cum	
							Say 0.536 cum @ Rs 8276.65 / cum	<b>Rs 4436.28</b>	
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								
	A. 65 mm dia GI pipe for post	2*3+1	3.850			6.42	173.019		

	B . wall plate R ect . hollow section 80x40x2.6	2	12.100			4.55	110.110		
	- do -	7.6	12.100			4.55	418.418		
	Common rafter - do - 60x40x2.60mm	2*6	5.000			3.73	223.800		
	D.collar - do - 50x25x2.6 mm	6	2.100			2.71	34.146		
	E. purlin square hollow section 25x25x2.6 mm	2*5	12.500			1.69	211.250		
	Total Quantity						1170.743 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						1170.743 kg		
	Say 1170.743 kg @ Rs 136.26 / kg						<b>Rs 159525.44</b>		
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	12.600	5.050			127.260		
	Total Quantity						127.260 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						127.260 sqm		
	Say 127.260 sqm @ Rs 830.99 / sqm						<b>Rs 105751.79</b>		
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 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)</p>								
	Ridge	1	12.600				12.600		
	Total Quantity						12.600 metre		

		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					12.600 metre	
		Say 12.600 metre @ Rs 544.21 / metre					<b>Rs 6857.05</b>	
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)							
	hall	1	8.400	7.500	0.075		4.725	
	office	1	2.400	2.700	0.075		0.486	
	Toilet	1	1.400	1.400	0.075		0.147	
	Dressing Room	1	2.400	2.600	0.075		0.468	
	wash aera	1	0.750	0.400	0.075		0.023	
		Total Quantity					5.849 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					5.849 cum	
		Say 5.849 cum @ Rs 6761.11 / cum					<b>Rs 39545.73</b>	
9	13.1.1 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)							
	outer basement	1	39.600	0.450			17.820	
	outer super struct or	1	39.200	3.000			117.601	
	Inner hall	1	32.200	3.000			96.601	
	office	1	11.000	3.000			33.000	
	Dressing room	1	10.400	3.000			31.201	
	Toilet	1	6.000	3.000			18.000	
	washing area	1	3.100	3.000			9.300	
		Deduction						
	Dadoing portion	1	6.000	1.500			9.000	
	Hall portion	2	8.700	2.000			34.800	
	- do -	1	7.600	2.000			15.200	
	Door	3	0.800	2.100			5.041	
	window	2	1.100	1.500			3.301	
	Entrance	1	1.200	1.000			1.200	
		Total Quantity					392.065 sqm	
		Total Deducted Quantity					0.000 sqm	

		Net Total Quantity					392.065 sqm	
		Say 392.065 sqm @ Rs 261.12 / sqm					<b>Rs 102376.01</b>	
10	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.						
	office	1	2.700	3.200			8.640	
	Toilet	1	1.500	1.500			2.250	
	Dress	1	2.700	2.900			7.830	
	washing area	1	0.900	1.700			1.530	
		Total Quantity					20.250 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					20.250 sqm	
		Say 20.250 sqm @ Rs 1039.27 / sqm					<b>Rs 21045.22</b>	
11	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.						
	Toilet	1	6.000	1.500			9.000	
		Total Quantity					9.000 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					9.000 sqm	
		Say 9.000 sqm @ Rs 1124.50 / sqm					<b>Rs 10120.50</b>	
12	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					<b>Rs 3470.35</b>	
13	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						<b>Rs 5275.54</b>	
14	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							
	Door - vertical frame	3*2	0.100	0.075	2.100		0.095	
	- do - horizontal frame	3*2	0.100	0.075	0.800		0.037	
	window vertical frame	3*3	0.100	0.075	1.500		0.102	
	- do - horizontal frame	2*2	0.100	0.075	1.100		0.033	
	Total Quantity						0.267 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						0.267 cum	
	Say 0.267 cum @ Rs 103455.59 / cum						<b>Rs 27622.64</b>	
15	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 12mm dia MS rod for window	2*14	1.100			0.89	27.413	
	Providing 12*5mm MS flat for hold fast	3*2	0.450			0.5	1.350	
	Total Quantity						28.763 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						28.763 kg	
	Say 28.763 kg @ Rs 158.00 / kg						<b>Rs 4544.55</b>	
16	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							

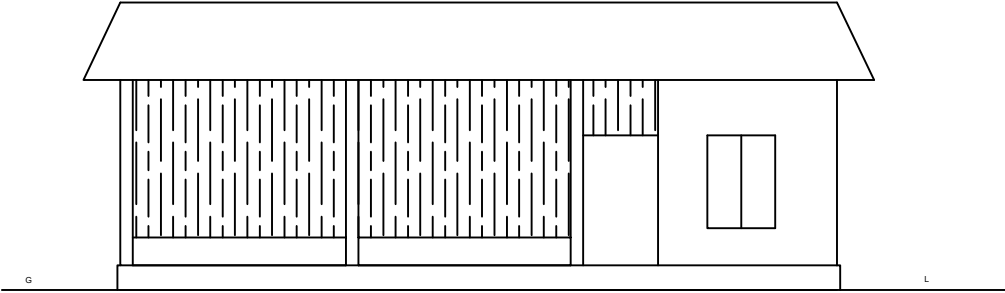
	grooves or rebates to be measured) paneling for paneled or paneled and glazed shutters 25 mm to 40 mm thick using good quality Anjili/ Jack wood						
	Door	3	0.700	1.980			4.158
	window	2*2	0.330	1.350			1.783
	Total Quantity						5.941 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						5.941 sqm
	Say 5.941 sqm @ Rs 2477.55 / sqm						<b>Rs 14719.12</b>
17	10.25.2 Item Shifted to head 14 as item 14.74 Steel 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, rods for providing compartment for Grill work						
	horizontal grills for walls (length wise )	2	9.000	2.000		8.4	302.401
	Vertical grils for walls (width wise0	1	7.600	2.000		8.4	127.680
	Compartment (long)	1	7.500	1.500		8.4	94.500
	- do - (short wise )	2	2.000	1.500		8.4	50.401
	Total Quantity						574.982 kg
	Total Deducted Quantity						0.000 kg
	Net Total Quantity						574.982 kg
	Say 574.982 kg @ Rs 129.77 / kg						<b>Rs 74615.41</b>
18	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						<b>Rs 17116.00</b>
19	13.61.1 Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work						

	Door	3	0.800	2.100		2.25	11.341		
	window	2	1.100	1.500		2.25	7.426		
	wall grill (hall portion )	2	8.700	2.000		0.5	17.400		
	_ do - ( width wise )	1	8.000	2.000		0.5	8.000		
	Total Quantity						44.167 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						44.167 sqm		
	Say 44.167 sqm @ Rs 118.37 / sqm						<b>Rs 5228.05</b>		
<b>Service Tax Amount</b>								<b>Rs 0.0</b>	
<b>Total with Service Tax</b>								<b>Rs 795274.71</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark	
<b>2 Water supply &amp; Sanitary arrangements including over head water tank with stand, pipe line, fittings etc(PREPARE AS PER SITE CONDITIONS)</b>									
Lump-Sum Total							<b>Rs 24000.00</b>		
SI No	Description	No	L	B	D	CF	Quantity	Remark	
Remark	<b>3 Providing plastic shredding machine and Bailing machine including necessary accessories</b>								
Lump-Sum Total							<b>Rs 900000.00</b>		
SI No	Description	No	L	B	D	CF	Quantity	Remark	
Remark	<b>4 Unfor seen if any</b>								
Lump-Sum Total							<b>Rs 725.00</b>		
							<b>TOTAL Rs 1720000.00</b>		
							<b>Rounded Total Rs 17,20,000</b>		
Rupees Seventeen Lakh Twenty Thousand Only									

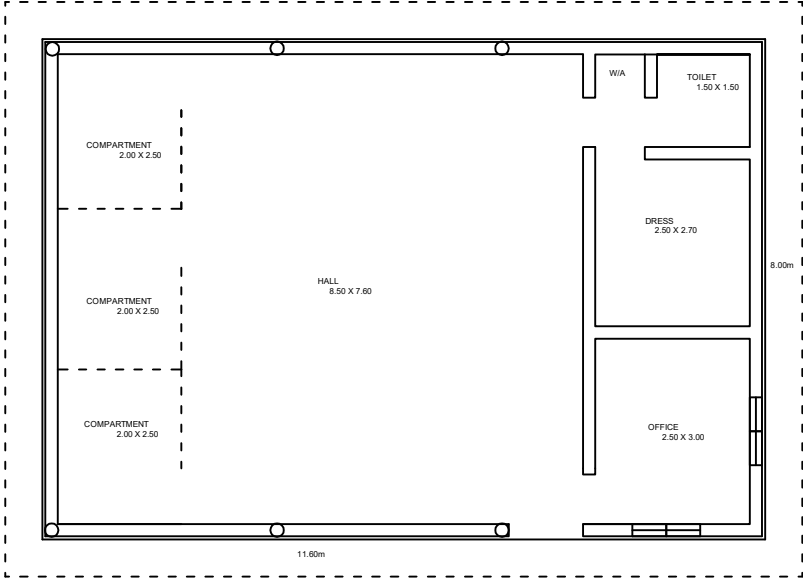
(Cost Index Applied for this estimate is 50.98%)



MATERIAL RECOVERY FACILITY CENTRE



ELEVATION



PLAN

SPECIFICATIONS
FOUNDATION - 0.40 X 0.50
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 (3 Nos)
WINDOW - 1.10 X 1.50 (2 Nos)
PLINTH AREA - 11.60 X 8.00 = 92.80sq.m
ALL DIMENSIONS ARE IN M