

Office of the Chief Engineer LSGD

MATERIAL RECOVERY FACILITY (2000 Sq.Feet/186.4 sq.m)-MODEL ESTIMATE

Detailed Estimate

(Cost Index Applied for this estimate is 50.98%)

Sl No	Description	No	L	B	D	CF	Quantity	Remark	
1 Construction of 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								
	(A) All round walls	1	61.800	0.500	0.500		15.450		
	(B) Longitudinal wall (M)	1	7.300	0.500	0.500		1.825		
	(D) Cross wall	2	2.400	0.500	0.500		1.200		
	(D) Ramp	1	1.520	1.000	1.000		1.520		
	Total Quantity							19.995 cum	
	Total Deducted Quantity							0.000 cum	
	Net Total Quantity							19.995 cum	
	Say 19.995 cum @ Rs 251.23 / cum							Rs 5023.34	
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 round walls	1	61.800	0.400	0.400		9.888		
	(B) Longitudinal wall (M)	1	7.400	0.400	0.400		1.185		
	(D) Cross wall	2	2.500	0.400	0.400		0.800		
	Basement								
	All round walls	1	61.800	0.300	0.450		8.343		
	Longitudinal wall (M)	1	7.500	0.300	0.450		1.013		
	Cross wall	2	2.600	0.300	0.450		0.703		
	Super structure								
	All round walls	1	61.800	0.200	3.600		44.496		

	Longitudinal wall (M)	1	7.600	0.200	3.600		5.472		
	Cross wall	2	2.700	0.200	3.600		3.889		
	Deduction								
	Hall portion	2	20.200	0.200	2.600		-21.008		
	-do-	1	7.600	0.200	2.600		-3.952		
	Door	3	0.800	0.200	2.100		-1.008		
	Entrance (Hall)	1	1.200	0.200	1.000		-0.240		
	Windows	2	1.100	0.200	1.500		-0.660		
	Total Quantity						75.789 cum		
	Total Deducted Quantity						-26.868 cum		
	Net Total Quantity						48.921 cum		
	Say 48.921 cum @ Rs 5352.56 / cum						Rs 261852.59		
3	4.3.1 Centering and shuttering including strutting, propping etc. and removal of form work for: Foundations, footings, bases for columns								
	GI post Foundtion Pedestal	9	1.200		0.450		4.860		
	Total Quantity						4.860 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						4.860 sqm		
	Say 4.860 sqm @ Rs 292.83 / sqm						Rs 1423.15		
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)								
	GI Post Foundation Pedestal	2*4	0.300	0.300	0.450		0.324		
		1*1	0.300	0.300	0.450		0.041		
	Total Quantity						0.365 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						0.365 cum		
	Say 0.365 cum @ Rs 8276.65 / cum						Rs 3020.98		
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								

	65 mm dia GI pipe	(2*4+1)	3.900			6.42	225.342	unit weight kg/m
	Wall Plate Rect. Hollow Section 80X40X2.60mm	2	23.700			4.55	215.670	
	Wall Plate Rect. Hollow Section 80X40X2.60mm	2	7.600			4.55	69.160	
	Common Rafter Rect. Hollow Section 60X40X2.60mm	2*12	5.000			3.73	447.600	
	Collar Rect. Hollow Section 50X25X2.60 mm	12	1.800			2.71	58.536	
	Purlin Sq. Hollow section 25X25X2.60 mm	2*4	24.000			1.69	324.480	
	Total Quantity						1340.788 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						1340.788 kg	
	Say 1340.788 kg @ Rs 136.26 / kg						Rs 182695.77	
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>							
	Roof	2	24.100	5.050			243.410	
	Total Quantity						243.410 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						243.410 sqm	
	Say 243.410 sqm @ Rs 830.99 / sqm						Rs 202271.28	
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</p>							

	complete:Ridges plain (500-600 mm)							
	Ridge	1	24.100				24.100	
	Total Quantity						24.100 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						24.100 metre	
	Say 24.100 metre @ Rs 544.21 / metre						Rs 13115.46	
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 round walls	1	61.800	0.500	0.100		3.090	
	(B) Longitudinal wall (M)	1	7.300	0.500	0.100		0.365	
	(C) Cross wall	2	2.400	0.500	0.100		0.240	
	(D) Ramp	1	3.000	1.200	(0+0.45)/2		0.810	
	Flooring							
	Hall	1	19.800	7.500	0.075		11.138	
	Office	1	2.600	2.900	0.075		0.566	
	Toilet	1	1.300	1.400	0.075		0.137	
	Dressing room	1	2.600	2.600	0.075		0.507	
	Wash area	1	1.250	1.400	0.075		0.132	
	Total Quantity						16.985 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						16.985 cum	
	Say 16.985 cum @ Rs 6761.11 / cum						Rs 114837.45	
9	13.1.1 12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)							
	Outer	2	23.300		3.600		167.761	
	-do-	2	8.000		3.600		57.600	
	Basement	1	62.600		0.450		28.170	
	Hall (Inner)	1	55.200		3.600		198.721	
	Office (Inner)	1	11.400		3.600		41.040	
	Dressing room (Inner)	1	10.800		3.600		38.880	

	Toilet	1	5.800		2.500		14.500		
	Deduction								
	Hall	2	23.300		2.600		-121.160		
	-do-	1	8.000		2.600		-20.800		
	Door	3	0.800		2.100		-5.040		
	Windows	1	1.100		1.500		-1.650		
	Entrance	1	1.200		1.000		-1.200		
	Total Quantity						546.672 sqm		
	Total Deducted Quantity						-149.850 sqm		
	Net Total Quantity						396.822 sqm		
	Say 396.822 sqm @ Rs 261.12 / sqm						Rs 103618.16		
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.								
	Flooring								
	Office	1	2.900	3.200			9.280		
	Toilet	1	1.400	1.500			2.100		
	Dressing room	1	2.900	2.900			8.410		
	Wash area	1	1.200	1.700			2.040		
	Total Quantity						21.830 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						21.830 sqm		
	Say 21.830 sqm @ Rs 1039.27 / sqm						Rs 22687.26		
11	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)								
	Hall	1	20.000	7.600			152.000		
	Total Quantity						152.000 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						152.000 sqm		
	Say 152.000 sqm @ Rs 364.62 / sqm						Rs 55422.24		
12	11.36 Providing and fixing 1 st 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.							
	Dadoing							
	Toilet	1	5.800		1.500		8.700	
	Total Quantity						8.700 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						8.700 sqm	
	Say 8.700 sqm @ Rs 1124.50 / sqm						Rs 9783.15	
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							
	Outer	2	23.300		3.600		167.761	
	-do-	2	8.000		3.600		57.600	
	Basement	1	62.600		0.450		28.170	
	Hall (Inner)	1	55.200		3.600		198.721	
	Office (Inner)	1	11.400		3.600		41.040	
	Dressing room (Inner)	1	10.800		3.600		38.880	
	Toilet	1	5.800		2.500		14.500	
	Deduction							
	Hall	2	23.300		2.600		-121.160	
	-do-	1	8.000		2.600		-20.800	
	Door	3	0.800		2.100		-5.040	
	Windows	1	1.100		1.500		-1.650	
	Entrance	1	1.200		1.000		-1.200	
	Total Quantity						546.672 sqm	
	Total Deducted Quantity						-149.850 sqm	
	Net Total Quantity						396.822 sqm	
	Say 396.822 sqm @ Rs 35.63 / sqm						Rs 14138.77	
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							

		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								
		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								
	Door								
	Vertical Frame	3*2	0.100	0.075	2.100		0.095		
	Horizontal Frame	3*2	0.100	0.075	0.800		0.037		
	Windows								
	Vertical Frame	2*3	0.100	0.075	1.500		0.068		
	Horizontal Frame	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 MS rod for window grill	2*14	1.100			0.89	27.413		

	Providing 12 X 5 mm MS flat for hold fast	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*1	0.700	1.980			4.158	
	Windows	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 14.74 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 and rods for providing partition (8.4 kg/m ²)							
	Wall grill (hall)	2	23.300		2.600	8.4	1017.745	8
	-do-	1	8.000		2.600	8.4	174.721	8
	Grill work (Compartments)	1	8.000		1.500	8.4	100.801	8
	Cross grill for compartment	5	2.000		1.500	8.4	126.000	8
	Total Quantity						1419.267 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						1419.267 kg	
	Say 1419.267 kg @ Rs 129.77 / kg						Rs 184178.28	
20	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 & Windows							

	Doors	3	0.800		2.100	2.25	11.341	
	Windows	2	1.100		1.500	2.25	7.426	
	Grill work							
	Wall grill (hall)	2	23.300		2.600		121.161	8
	-do-	1	8.000		2.600		20.800	8
	Grill work (Compartments)	1	8.000		1.500		12.000	8
	Cross wall	5	2.000		1.500		15.000	8
	Total Quantity						187.728 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						187.728 sqm	
	Say 187.728 sqm @ Rs 118.37 / sqm						Rs 22221.36	
21	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 1265448.87
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 24000.00	
	SI No	Description	No	L	B	D	CF	Quantity
Remark	3 Providing Plastic shredding machine and Bailing Machine with necessary accessories							
Lump-Sum Total							Rs 900000.00	
	SI No	Description	No	L	B	D	CF	Quantity
Remark	4 Electrification							
Lump-Sum Total							Rs 70000.00	
	SI No	Description	No	L	B	D	CF	Quantity
Remark	5 Unforeseen							

Lump-Sum Total		Rs 551.00
		TOTAL Rs 2260000.00
		Rounded Total Rs 22,60,000
		Rupees Twenty Two Lakh Sixty Thousand Only

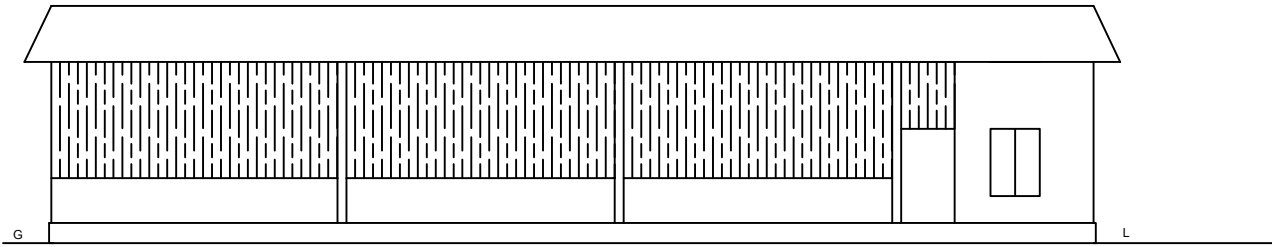
(Cost Index Applied for this estimate is 50.98%)



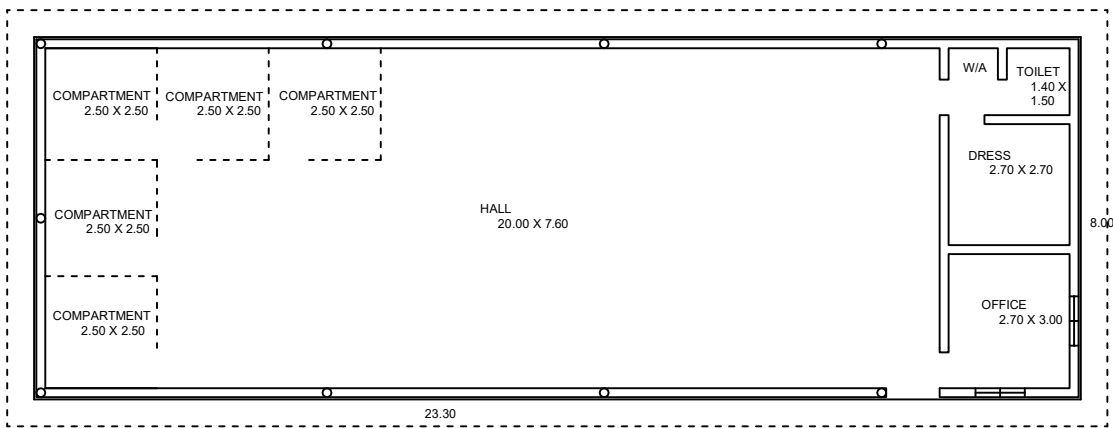
LSGD Engineering Wing

PRICE

MATERIAL RECOVERY FACILITY CENTRE



ELEVATION



PLAN

SPECIFICATIONS

FOUNDATION - 0.40 X 0.40
BASEMENT - 0.30 X 0.450
SUPERSTRUCTURE - 0.20m thick and
3.60m height
DOOR - 1.20 X 2.10 (1 Nos)
DOOR - 0.8 X 2.10 (3 Nos)
WINDOW - 1.10 X 1.50 (2 Nos)
PLINTH AREA - 23.30 X 8.00 = 186.40sq.m
ALL DIMENSIONS ARE IN M