

ഭരണഭാഷ - മാതൃഭാഷ

ചീഫ് എഞ്ചിനീയറുടെ കാര്യാലയം  
തദ്ദേശസ്വയം ഭരണ വകുപ്പ്  
റവന്യൂ കോസ്റ്റക്സ്, മൂന്നാംനില  
പബ്ലിക് ഓഫീസ് ബിൽഡിംഗ്,  
തിരുവനന്തപുരം

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തീയതി 23/11/2017

പ്രേഷകൻ

ചീഫ് എഞ്ചിനീയർ

ഗ്രാഹകൻ

മാനേജിംഗ് ഡയറക്ടർ,  
ക്ലീൻ കേരളാ കമ്പനി ലിമിറ്റഡ്,  
രജിസ്റ്റേർഡ് ഓഫീസ്, റ്റി.സി 29/1732, സെക്കന്റ് ഫ്ലോർ,  
സ്റ്റേറ്റ് മുനിസിപ്പൽ ഹൗസ്,  
വഴുതക്കാട് - തിരുവനന്തപുരം - 10

സർ,

വിഷയം:- തദ്ദേശസ്വയംഭരണ (എഞ്ചിനീയറിംഗ്) വിഭാഗം - മെറ്റീരിയൽ റിക്കവറി ഫെസിലിറ്റി - താൽക്കാലിക ഷെഡ് നിർമ്മാണം - സംബന്ധിച്ച്

സൂചന:- താങ്കളുടെ ഓഫീസിൽ നിന്നുള്ള 04/10/2017 ലെ നം സി.36/സി.കെ.സി.കെ.എൽ/2017 കത്ത്

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സൂചനയിലേക്ക് ശ്രദ്ധ ക്ഷണിക്കുന്നു. സൂചന കത്തിനോടൊപ്പം സമർപ്പിച്ചിരുന്ന എസ്റ്റിമേറ്റിൽ ന്യൂനതകൾ കണ്ടതിനാൽ, ന്യൂനത പരാഹിരിച്ച് എല്ലാ പ്രൊവിഷനുകളും നൽകി തിരുവനന്തപുരം ജില്ലയുടെ കോസ്റ്റ് ഇൻഡക്സിൽ തയ്യാറാക്കിയ എസ്റ്റിമേറ്റും പ്ലാനും ഇതോടൊപ്പം ഉള്ളടക്കം ചെയ്യുന്നു.

ഉള്ളടക്കം:- എസ്റ്റിമേറ്റ്, പ്ലാൻ

വിശ്വസ്തതയോടെ,



ചീഫ് എഞ്ചിനീയർ

എൻ.പി/

## Office of the Chief Engineer LSGD

## Material Recovery Facility(510sq.ft/47.43 Sq.M)-Model Estimate

## Detailed Estimate

(Cost Index Applied for this estimate is 44.12%)

Sl No	Description	No	L	B	D	CF	Quantity	Remark	
<b>1 Civil Work</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								
	<b>Earth work</b>								
	Foundation around	1	28.900	0.600	0.600		10.404		
	Cross wall	1	4.500	0.600	0.600		1.620		
	Cross wall	2	1.700	0.600	0.600		1.224		
	Step	1	1.200	0.750	0.300		0.270		
	Total Quantity							13.518 cum	
	Total Deducted Quantity							0.000 cum	
	Net Total Quantity							13.518 cum	
	Say 13.518 cum @ Rs 239.82 / cum							Rs 3241.89	
2	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)								
	<b>Foundation</b>								
	Foundation around	1	28.900	0.600	0.100		1.734		
	Cross wall	1	4.500	0.600	0.100		0.270		
	Cross wall	2	1.700	0.600	0.100		0.205		
	Flooring-Main portion	1	6.220	4.900	0.075		2.286		
	Passage	1	1.200	0.600	0.075		0.054		
	Dress	1	2.100	1.500	0.075		0.237		
	Office	1	2.100	2.000	0.075		0.315		
	Toilet	1	1.500	1.200	0.075		0.135		
	Total Quantity							5.236 cum	
	Total Deducted Quantity							0.000 cum	

		Net Total Quantity					5.236 cum	
		Say 5.236 cum @ Rs 6453.91 / cum					Rs 33792.67	
3	7.1.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)						
		Foundation						
	Foundation alround	1	28.900	0.600	0.600		10.404	
	Cross wall		4.500	0.600	0.600		1.620	
	Cross wall	2	1.800	0.600	0.600		1.296	
	Step		1.200	0.750	0.300		0.270	
		Basement						
	Foundation alround		28.900	0.450	0.450		5.853	
	Cross wall	1	4.650	0.450	0.450		0.942	
	Cross wall	2	1.850	0.450	0.450		0.750	
		Total Quantity					21.135 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					21.135 cum	
		Say 21.135 cum @ Rs 5715.58 / cum					Rs 120798.78	
4	4.1.2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:1/2:3 (cement : 11/2 coarse sand : 3 graded stone aggregate 20 mm nominal size)						
		Foundation						
	For Fixing post	8	0.450	0.450	1.050		1.702	
		Total Quantity					1.702 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					1.702 cum	
		Say 1.702 cum @ Rs 8538.61 / cum					Rs 14532.71	
5	5.1.2	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1.5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size)						
		Plinth belt						
	Foundation alround	1	28.900	0.200	0.0750		0.434	

	Cross wall	1	4.900	0.200	0.0750		0.074		
	Cross wall	2	2.100	0.200	0.0750		0.063		
	Total Quantity						0.571 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						0.571 cum		
	Say 0.571 cum @ Rs 8957.56 / cum							Rs 5114.77	
6	<p>50.6.1.8                      Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x15cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level with thickness 15cm in: CM 1:6 ( 1 cement : 6 coarse sand etc complete</p>								
	<b>Wall</b>								
	Wall around	1	28.900	0.150	2.700		11.705		
	Cross wall	1	4.950	0.150	2.700		2.005		
	Cross wall	2	2.100	0.100	2.700		1.135		
	<b>ISGD Engine Opening Wing</b>								
	Door	1	1.000	0.200	2.100		-0.420		
	Doors	2	0.900	0.200	2.100		-0.756		
	Door	1	0.750	0.200	2.100		-0.315		
	Windows	2	1.000	0.200	1.200		-0.480		
	Grill -around	1	15.140	0.200	1.500		-4.542		
	Total Quantity						14.845 cum		
	Total Deducted Quantity						-6.513 cum		
	Net Total Quantity						8.332 cum		
	Say 8.332 cum @ Rs 5989.09 / cum							Rs 49901.10	
7	<p>5.3                      Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (Zone III) : 3 graded stone aggregate 20 mm nominal size).</p>								
	<b>Lintel and slab</b>								
		1	14.800	0.200	0.150		0.445		
		2	1.500	0.100	0.150		0.046		
	Toilet slab	1	1.900	1.400	0.100		0.266		
	Total Quantity						0.757 cum		
	Total Deducted Quantity						0.000 cum		

		Net Total Quantity					0.757 cum	
		Say 0.757 cum @ Rs 10651.62 / cum					Rs 8063.28	
8	5.9.3	Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform						
		Slab						
	Slab	1	1.500	1.200			1.800	
		Total Quantity					1.800 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					1.800 sqm	
		Say 1.800 sqm @ Rs 608.62 / sqm					Rs 1095.52	
9	5.9.1	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete						
		LCD Engine Plinth belt - Walling						
	Foundation around	2	28.900	1.000	0.0750		4.335	
	Cross wall	2	4.900	1.000	0.0750		0.735	
	Cross wall	4	2.100	1.000	0.0750		0.630	
		Total Quantity					5.700 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					5.700 sqm	
		Say 5.700 sqm @ Rs 279.52 / sqm					Rs 1593.26	
10	5.9.5	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers						
		Lintel						
		2	14.800	1.000	0.150		4.440	
		4	1.500	1.000	0.150		0.900	
		Total Quantity					5.340 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					5.340 sqm	
		Say 5.340 sqm @ Rs 494.19 / sqm					Rs 2638.97	
11	5.22.6	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars						

	For belt	1	0.571	1.000	1.000	50.0	28.550		
	For lintel and slab	1	0.757	1.000	1.000	65.0	49.205		
	Total Quantity						77.755 kilogram		
	Total Deducted Quantity						0.000 kilogram		
	Net Total Quantity						77.755 kilogram		
	Say 77.755 kilogram @ Rs 81.57 / kilogram						Rs 6342.48		
12	50.10.1 Steel work in built up G I tubular ( round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete								
	Wall plate truss		28.900	0.200		20.0	115.601		
	Common rafter truss		3.000	0.200		20.0	96.001		
	Ridge truss		9.550	0.200		20.0	38.200		
	Total Quantity						249.802 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						249.802 kg		
	Say 249.802 kg @ -Rs 144.34 / kg						Rs 36056.42		
13	50.10.2 Steel work for purlin/single section with G I pipes including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete								
	65 mm Gi pipe	8	3.700			6.54	193.584		
	40mm GI pipe for Purlin	8	10.650			3.6	306.720		
	Collar-Rectangular GI Tube 50mmx25mmx1.6mm	4	1.500			2.71	16.260		
	Total Quantity						516.564 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						516.564 kg		
	Say 516.564 kg @ Rs 117.53 / kg						Rs 60711.77		
14	12.50 Providing and fixing pre-coated 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.							
	Roof							
	Roof	1	10.750	6.500		1.2	83.850	
	Total Quantity						83.850 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						83.850 sqm	
	Say 83.850 sqm @ Rs 793.24 / sqm						Rs 66513.17	
15	12.51.1 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)							
	Ridge		10.750				10.750	
	Total Quantity						10.750 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						10.750 metre	
	Say 10.750 metre @ Rs 519.48 / metre						Rs 5584.41	
16	13.1.1 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)							
	wall							
	Wall-inside	1	17.340	1.200			20.808	
	Outside	1	18.140	1.200			21.768	
		1	15.600	2.700			42.121	
	Office	1	8.200	2.700			22.140	
	Dress	1	7.200	2.700			19.440	
	Toilet	1	5.400	1.200			6.480	
	Wall near main door	2*2	0.600	1.500			3.600	
	Half wall top	1	15.540	0.200			3.108	
	Opening							
	Door	1	1.000	1.000	2.100		-2.100	
	Doors	2	0.900	1.000	2.100		-3.780	
	Door	1	0.750	1.000	2.100		-1.575	

	Windows	2	1.000	1.000	1.200		-2.400	
	Total Quantity						139.465 sqm	
	Total Deducted Quantity						-9.855 sqm	
	Net Total Quantity						129.610 sqm	
	Say 129.610 sqm @ Rs 249.26 / sqm						Rs 32306.59	
17	11.36	<p>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>						
	Wall tile-Toilet	1	4.650	1.500			6.976	
	Total Quantity						6.976 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						6.976 sqm	
	Say 6.976 sqm @ Rs 1073.41 / sqm						Rs 7488.11	
18	11.37	<p>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>						
	Toilet	1	1.500	1.200			1.800	
	Total Quantity						1.800 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						1.800 sqm	
	Say 1.800 sqm @ Rs 992.05 / sqm						Rs 1785.69	
19	11.41.2	<p>Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4(1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600 x 600 mm.</p>						
	Floor							
	Dress	1	2.100	1.500			3.151	
	Office	1	2.100	2.000			4.200	
	Total Quantity						7.351 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						7.351 sqm	



	Say 7.351 sqm @ Rs 1613.28 / sqm						Rs 11859.22	
20	13.9.1 Cement plaster 1:3 ( 1 cement : 3 coarse sand) finished with a floating coat of neat cement.12 mm cement plaster							
	Common Area	1	6.220	4.900			30.478	
	Total Quantity						30.478 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						30.478 sqm	
	Say 30.478 sqm @ Rs 338.25 / sqm						Rs 10309.18	
21	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							
	Main door vertical	2	2.100	0.100	0.075		0.032	
	Main door -Horizontal	2	1.200	0.100	0.075		0.018	
	Internal door-Vertical	2*2	2.100	0.100	0.075		0.063	
	Horizontal	2*1	1.100	0.100	0.075		0.017	
	Windo vertical	2*3	1.200	0.100	0.075		0.054	
	Horizontal	2*2	1.200	0.100	0.075		0.036	
	Ventilator vertical	2	0.500	0.100	0.075		0.008	
	Horizontal	2	0.800	0.100	0.075		0.013	
	Total Quantity						0.241 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						0.241 cum	
	Say 0.241 cum @ Rs 102654.38 / cum						Rs 24739.71	
22	50.9.2.1 Providing and fixing paneled and glazed shutters for doors, windows and clerestory windows, 35 mm thick shutters including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineerin - charge.using Anjili/ Jack wood							
	Main door	1	0.850	1.950			1.658	
	D2	2	0.750	1.950			2.925	
	Windows	2*2	0.390	1.050			1.639	
	Total Quantity						6.222 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						6.222 sqm	

		Say 6.222 sqm @ Rs 2919.53 / sqm					Rs 18165.32	
23	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							
	Main door	1	0.850	1.950			1.658	
	D2	2	0.750	1.950			2.925	
		Total Quantity					4.583 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					4.583 sqm	
		Say 4.583 sqm @ Rs 2443.12 / sqm					Rs 11196.82	
24	50.9.5.2 Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws. Using Pincoda wood 35 mm thick shutters							
		2*2	0.390	1.050			1.639	
		Total Quantity					1.639 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					1.639 sqm	
		Say 1.639 sqm @ Rs 3834.06 / sqm					Rs 6284.02	
25	9.117.1 Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ±1 mm), with wall thickness 2.0mm (±0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge Extruded section profile size 48x40 mm							
	D3	1	5.000				5.000	
		Total Quantity					5.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					5.000 metre	
		Say 5.000 metre @ Rs 312.45 / metre					Rs 1562.25	
26	9.118.1 Providing and fixing to existing door frames 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws.							

	The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ( $\pm$ 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge( For W.C. and bathroom door shutter).						
D3	1	0.750	2.100			1.576	
	Total Quantity						1.576 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						1.576 sqm
	Say 1.576 sqm @ Rs 2594.88 / sqm						Rs 4089.53
27	9.48.2 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 openings/ wooden frames with rawl plugs screws etc.						
	2	1.000	1.200		12.0	28.800	
	Total Quantity						28.800 kg
	Total Deducted Quantity						0.000 kg
	Net Total Quantity						28.800 kg
	Say 28.800 kg @ Rs 162.06 / kg						Rs 4667.33
28	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						
Grill work	1	15.140	1.500		10.0	227.101	
	Total Quantity						227.101 kg
	Total Deducted Quantity						0.000 kg
	Net Total Quantity						227.101 kg
	Say 227.101 kg @ Rs 123.87 / kg						Rs 28131.00
29	21.1.1.3 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS : 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing /paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge.(Glazing,						

	paneling and dash fasteners to be paid for separately):For fixed portionPolyester powder coated aluminium ( minimum thickness of polyester powder coating 50 micron )							
	For compartment	1	2.000	2.100		4.0	16.800	
		2	1.450	2.100		4.0	24.360	
	Total Quantity						41.160 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						41.160 kg	
	Say 41.160 kg @ Rs 564.66 / kg						Rs 23241.41	
30	21.2.2 Providing and fixing 12 mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS : 12823 Grade I, Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer - in- Charge. Pre- laminated particle board with decorative lamination on both sides							
		1	2.000		1.000		2.000	
		2	1.450		1.000		2.900	
	Total Quantity						4.900 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						4.900 sqm	
	Say 4.900 sqm @ Rs 1248.94 / sqm						Rs 6119.81	
31	21.3.1 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. ( Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 4.0 mm thickness							
		1	2.000		1.000		2.000	
		2	1.450		1.000		2.900	
	Total Quantity						4.900 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						4.900 sqm	
	Say 4.900 sqm @ Rs 1068.65 / sqm						Rs 5236.39	
32	13.43.1 Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer							
	wall							
	Wall-inside	1	17.340	1.200			20.808	

	Outside	1	18.140	1.200			21.768		
		1	15.600	2.700			42.121		
	Office	1	8.200	2.700			22.140		
	Dress	1	7.200	2.700			19.440		
	Toilet	1	5.400	1.200			6.480		
	Wall near main door	2*2	0.600	1.500			3.600		
	Half wall top	1	15.540	0.200			3.108		
	Opening								
	Door	1	1.000	1.000	2.100		-2.100		
	Doors	2	0.900	1.000	2.100		-3.780		
	Door	1	0.750	1.000	2.100		-1.575		
	Windows	2	1.000	1.000	1.200		-2.400		
	Total Quantity						139.465 sqm		
	Total Deducted Quantity						-9.855 sqm		
	Net Total Quantity						129.610 sqm		
	Say 129.610 sqm @ Rs 53.25 / sqm						Rs 6901.73		
33	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							
	D1	1	1.000	2.100		2.25	4.726		
	D2	2	0.900	2.100		2.25	8.505		
	Window	2	1.000	1.200			2.400		
	Grill-window	2	1.000	1.200			2.400		
	Grill for opening	1	15.140	1.500			22.710		
	Truss	1	28.900	0.200			5.780		
		4*2	3.000	0.200			4.801		
	Extra quantity	1	10.000	1.000			10.000		
	Total Quantity						61.322 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						61.322 sqm		
	Say 61.322 sqm @ Rs 112.99 / sqm						Rs 6928.77		
34	13.82.2	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture including applying additional coats wherever required, to							

	achieve even shade and colour.Two coats						
	wall						
Wall-inside	1	17.340	1.200				20.808
Outside	1	18.140	1.200				21.768
	1	15.600	2.700				42.121
Office	1	8.200	2.700				22.140
Dress	1	7.200	2.700				19.440
Toilet	1	5.400	1.200				6.480
Wall near main door	2	0.600	1.500				3.600
Half wall top	1	15.540	0.200				3.108
	Opening						
Door	1	1.000	1.000	2.100			-2.100
Doors	2	0.900	1.000	2.100			-3.780
Door	1	0.750	1.000	2.100			-1.575
Windows	2	1.000	1.000	1.200			-2.400
	Total Quantity						139.465 sqm
	Total Deducted Quantity						-9.855 sqm
	Net Total Quantity						129.610 sqm
	Say 129.610 sqm @ Rs 106.50 / sqm						Rs 13803.47
35	17.2.1 Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with 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 required:W.C. pan with ISI marked white solid plastic seat and lid						
	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 4927.03 / each						Rs 4927.03
36	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 3312.67 / each							Rs 3312.67	
37	17.28.2.1 Flexible pipe 32 mm dia								
		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 105.57 / each							Rs 105.57	
38	50.17.1.5 Supplying and fixing CP Health Faucet superior quality ( Jagur or equivalent make ) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.								
		1					1.000		
	Total Quantity						1.000 no		
	Total Deducted Quantity						0.000 no		
	Net Total Quantity						1.000 no		
	Say 1.000 no @ Rs 1280.53 / no							Rs 1280.53	
39	50.18.7.2.1 Providing and fixing PVC pipes, fittings including fixing the pipe with claps at 1.00 metre spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 20 mm dia 12Kgf/cm <sup>2</sup> - Internal work - Exposed on wall								
		1	25.000				25.000		
	Total Quantity						25.000 metre		
	Total Deducted Quantity						0.000 metre		
	Net Total Quantity						25.000 metre		
	Say 25.000 metre @ Rs 195.92 / metre							Rs 4898.00	
40	50.18.8.2.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 20 mm pipe 10 Kg/ cm <sup>2</sup>								
		1	5.000				5.000		
	Total Quantity						5.000 metre		

							Total Deducted Quantity	0.000 metre
							Net Total Quantity	5.000 metre
							Say 5.000 metre @ Rs 297.58 / metre	Rs 1487.90
41	50.18.9.9.1	Providing and fixing PVC pipes including jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of Joints complete as per direction of engineer in charge. 110 mm dia 6Kgf/cm2						
		1*10						10.000
							Total Quantity	10.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	10.000 metre
							Say 10.000 metre @ Rs 445.80 / metre	Rs 4458.00
42	50.18.9.22.1	Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia Elbow						
								1.000
							Total Quantity	1.000 no
							Total Deducted Quantity	0.000 no
							Net Total Quantity	1.000 no
							Say 1.000 no @ Rs 104.18 / no	Rs 104.18
43	50.18.9.22.2	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia 45 degree Elbow						
		1						1.000
							Total Quantity	1.000 no
							Total Deducted Quantity	0.000 no
							Net Total Quantity	1.000 no
							Say 1.000 no @ Rs 101.89 / no	Rs 101.89
44	50.18.9.22.3	Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement-110 mm dia Door Elbow						
		1						1.000
							Total Quantity	1.000 no
							Total Deducted Quantity	0.000 no
							Net Total Quantity	1.000 no
							Say 1.000 no @ Rs 128.58 / no	Rs 128.58

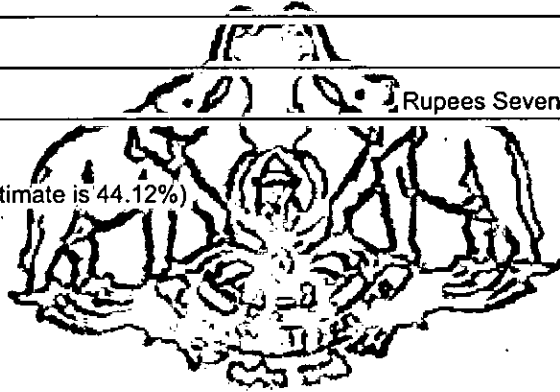


45	50.18.9.22.5 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes including jointing with PVC solvent cement 110x110x110 mm dia Tee								
			1						1.000
		Total Quantity						1.000 no	
		Total Deducted Quantity						0.000 no	
		Net Total Quantity						1.000 no	
		Say 1.000 no @ Rs 171.18 / no						Rs 171.18	
46	50.18.9.22.8 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement -110 mm dia Vent cowl								
									1.000
		Total Quantity						1.000 no	
		Total Deducted Quantity						0.000 no	
		Net Total Quantity						1.000 no	
		Say 1.000 no @ Rs 120.42 / no						Rs 120.42	
47	17.32.4 Providing and fixing mirror of superior glass ( of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :Rectangular shape 1500x450 mm								
			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 1906.85 / each						Rs 1906.85	
48	17.73.2 Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighting not less than 190 gms								
			1						1.000
		Total Quantity						1.000 no	
		Total Deducted Quantity						0.000 no	
		Net Total Quantity						1.000 no	
		Say 1.000 no @ Rs 609.20 / no						Rs 609.20	
49	18.49.1 Providing and fixing C.P brass bib cock of approved quality conforming to IS: 8931.15 mm nominal bore								

		4					4.000	
	Total Quantity						4.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						4.000	each
	Say 4.000 each @ Rs 535.69 / each						Rs 2142.76	
50	18.52.1 Providing and fixing C.P brass stop cock ( concealed) of standard design and of approved make conforming to IS: 893115 mm nominal bore.							
		2					2.000	
	Total Quantity						2.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						2.000	each
	Say 2.000 each @ Rs 786.82 / each						Rs 1573.64	
51	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 17077.15 / each						Rs 17077.15	
52	18.48A Providing and fixing rectangular high density polyethylene water storage/loft tank with cover, conforming to ISI : 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support i/c fittings & fixtures for tank shall be paid separately.							
		1	500.000				500.000	
	Total Quantity						500.000	Litre
	Total Deducted Quantity						0.000	Litre
	Net Total Quantity						500.000	Litre
	Say 500.000 Litre @ Rs 10.45 / Litre						Rs 5225.00	
Service Tax Amount							Rs 41425.68493680001	
Total with Service Tax							Rs 731853.77	
SI No	Description	No	L	B	D	CF	Quantity	Remark

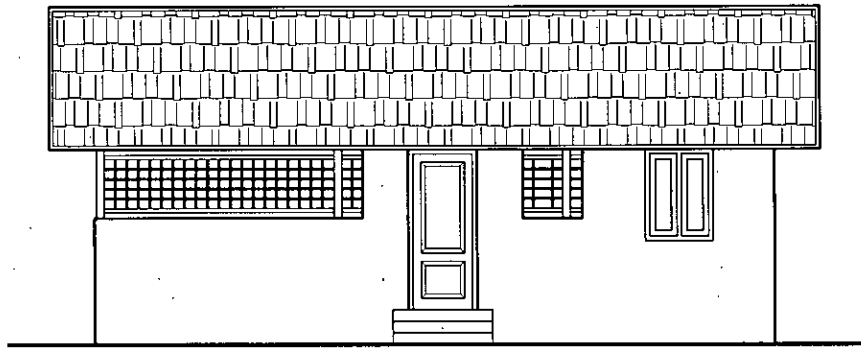
2 Provision for Electrification								
Lump-Sum Total							Rs 35000.00	
SI No	Description	No	L	B	D	CF	Quantity	
Remark	3 Unforeseen items if any							
Lump-Sum Total							Rs 8146.00	
							TOTAL Rs 775000.00	
							Rounded Total Rs 7,75,000	
Rupees Seven Lakh Seventy Five Thousand Only								

(Cost Index Applied for this estimate is 44.12%)

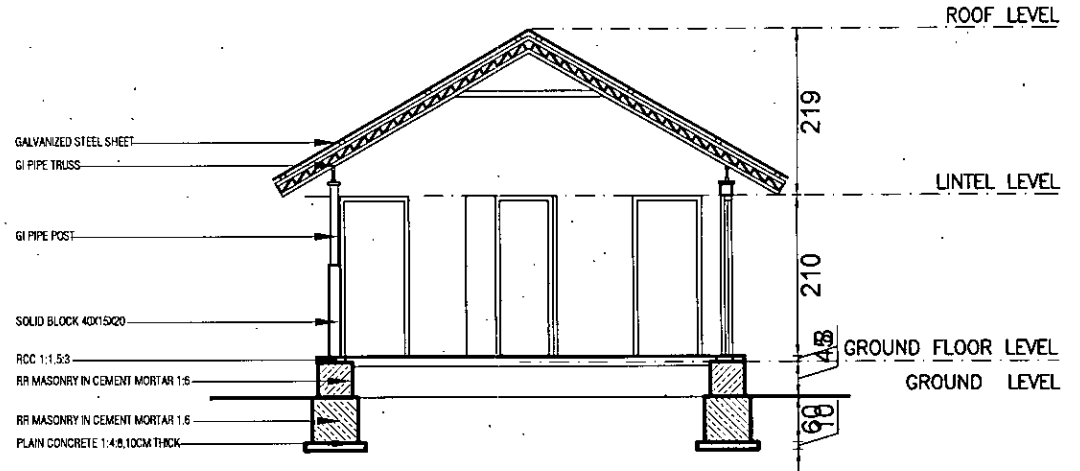


LSGD Engineering Wing

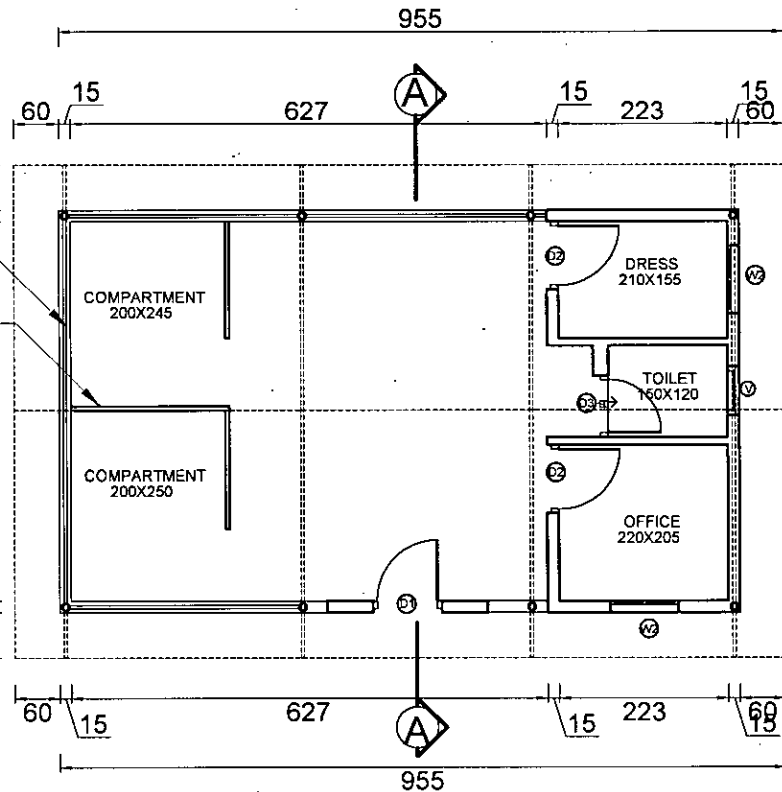
PRICE



ELEVATION



SECTION A-A



GROUND FLOOR PLAN

SCHEDULE OF JOINERY		
SYMBOL	SIZE	Nos
D1	100 X 210	1No
D2	90 X 210	2Nos
D3	75 X 210	1No
W2	90 X 120	2Nos
V	60 X 120	1No
PLINTH AREA:		
47.43 SQ.M		
MATERIAL RECOVERY FACILITY		