

Office of the Chief Engineer LSGD

CONSTRUCTION OF MODERN GAS CREMATORIUM - SEMI PERMANENT
PITCHED SHEET ROOF TYPE (MODEL ESTIMATE)

Detailed Estimate

(Cost Index Applied for this estimate is 50.98%)

Sl No	Description	No	L	B	D	CF	Quantity	Remark	
1 APPENDIX A - CREMATORIUM 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.Allrond wall	1	52.900	0.800	0.750		31.741		
	B.Longitudinal (L&R)	2	2.500	0.800	0.750		3.000		
	C. - do - - do -	2	0.900	0.800	0.750		1.080		
	D. Cross wall	1	5.200	0.800	0.750		3.120		
	E. - do -	2	0.800	0.800	0.750		0.961		
	F. Step	1	3.600	0.700	0.200		0.504		
	G. Gl post foundation	2	0.600	0.600	0.600		0.432		
	Total Quantity							40.838 cum	
	Total Deducted Quantity							0.000 cum	
	Net Total Quantity							40.838 cum	
	Say 40.838 cum @ Rs 251.23 / cum							Rs 10259.73	
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)								
	Foundation								
	A.Allrond wall	1	52.900	0.800	0.150		6.348		
	B.Longitudinal (L&R)	2	2.500	0.800	0.150		0.600		
	C. - do - - do -	2	0.900	0.800	0.150		0.217		
	D. Cross wall	1	5.200	0.800	0.150		0.624		
	E. - do -	2	0.800	0.800	0.150		0.193		
	F. Step	1	3.600	0.700	0.100		0.252		

	G. Gl post foundation	2	0.600	0.600	0.1500		0.108	
	Flooring							
	porch	1	3.150	3.200	0.075		0.756	
	Varandha	1	10.350	3.750	0.075		2.911	
	hall	1	5.550	12.050	0.075		5.016	
	office & Gas rooms	2	1.950	2.600	0.075		0.761	
	Toilet	2	1.150	1.250	0.075		0.216	
	Total Quantity						18.002 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						18.002 cum	
	Say 18.002 cum @ Rs 6761.11 / cum						Rs 121713.50	
3	5.9.1 Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete							
	Gl post foundation	2*4	0.500	0.600			2.400	
	Total Quantity						2.400 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						2.400 sqm	
	Say 2.400 sqm @ Rs 292.83 / sqm						Rs 702.79	
4	4.1.4 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)1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)							
	Gl post fixing	2	0.500	0.500	0.600		0.300	
	Total Quantity						0.300 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						0.300 cum	
	Say 0.300 cum @ Rs 8138.50 / cum						Rs 2441.55	
5	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							
	A.Allrond wall	1	52.900	0.800	0.600		25.392	

	B.Longitudinal (L&R)	2	2.500	0.800	0.600		2.400		
	C. - do - - do -	2	0.900	0.800	0.600		0.865		
	D. Cross wall	1	5.200	0.800	0.600		2.496		
	E. - do -	2	0.800	0.800	0.600		0.769		
	F. Step	1	3.600	0.700	0.300		0.756		
	Basement								
	A	1	52.900	0.450	0.450		10.713		
	B	2	2.600	0.450	0.450		1.054		
	c	2	1.250	0.450	0.450		0.507		
	D	1	5.550	0.450	0.450		1.124		
	E	1	3.600	0.450	0.450		0.730		
	Total Quantity						46.806 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						46.806 cum		
	Say 46.806 cum @ Rs 5987.64 / cum						Rs 280257.48		
6	50.6.1.2 Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 (1 cement: 6 coarse sand) etc complete.								
	super structure								
	A	1	52.900	0.200	3.000		31.741		
	B	2	2.850	0.200	3.000		3.421		
	c	2	1.500	0.200	3.000		1.801		
	D	1	5.800	0.200	3.000		3.480		
	E	2	1.400	0.200	3.000		1.680		
	F	1	3.600	0.600	0.150		0.324		
	- do -	1	3.600	0.300	0.150		0.162		
	Deduction								
	Rolling Shutter	1	3.450	0.200	2.100		-1.450		
	Door	2	09.000	0.200	2.100		-7.561		
	- do -	2	09.000	0.200	2.100		-7.561		
	window	5	1.500	0.200	1.500		-2.251		
	- do -	2	1.100	0.200	1.500		-0.661		

	varandha portion	2	4.000	0.200	2.000		-3.200	
	- do -	2	3.400	0.200	2.000		-2.720	
	Lintel	1	66.000	0.200	0.150		-1.980	
	Total Quantity						42.609 cum	
	Total Deducted Quantity						-27.384 cum	
	Net Total Quantity						15.225 cum	
	Say 15.225 cum @ Rs 5878.27 / cum						Rs 89496.66	
7	5.3 Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15 ⁰ 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).							
	Lintel	1	66.000	0.200	0.150		1.980	
	Roof slab of Toilet	2	1.800	1.900	0.120		0.821	
	Total Quantity						2.801 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						2.801 cum	
	Say 2.801 cum @ Rs 11158.63 / cum						Rs 31255.32	
8	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars							
	Lintel - 1.89 cu.m x110 kg/ cu.m	1.89*110					207.900	
	Roof slab - 0.821cu.mx90kg/cu.m	0.821*90					73.890	
	Total Quantity						281.790 kilogram	
	Total Deducted Quantity						0.000 kilogram	
	Net Total Quantity						281.790 kilogram	
	Say 281.790 kilogram @ Rs 85.45 / kilogram						Rs 24078.96	
9	5.9.3 Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform							
	Lintel outer	1	46.000	0.150			6.900	
	- do - inner	1	68.000	0.150			10.200	
	Roof slab	2	1.800	1.900			6.840	
	wall thickness	2	3.100	0.200			-1.240	

						Total Quantity	23.940 sqm	
						Total Deducted Quantity	-1.240 sqm	
						Net Total Quantity	22.700 sqm	
						Say 22.700 sqm @ Rs 637.59 / sqm	Rs 14473.29	
10	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						
		Main building						
	(a) 80x80x2.6 mm Rect.hollow section - Ridge piece	1	7.340			4.55	33.397	
	- do - wall plate (length wise)	2	11.400			4.55	103.740	
	- do - - do - (width wise)	2	7.400			4.55	67.340	
	- do - hip rafter	2*2	8.800			4.55	160.160	
	(b) 60x40x2.6 mm Rect. hollow section - Commen rafter	2*8	4.560			3.73	272.141	
	- do - - do - Jack rafter	2*2	4.050			3.73	60.426	
	- do - - do - - do -	2*2	3.450			3.73	51.475	
	- do - - do - - do -	2*2	2.850			3.73	42.522	
	- do - - do - - do -	2*2	2.250			3.73	33.570	
	- do - - do - - do -	2*2	1.650			3.73	24.618	
	- do - - do - - do -	2*2	1.050			3.73	15.666	
	- do - - do - - do -	2*2	0.450			3.73	6.714	
	(c) 50x25x2.60 mm Rect.hollow section - Collar	1*8	1.200			2.71	26.016	
	(d) 25x25x2.60 mm square hollow section - purlin	2	8.450			1.69	28.561	
	- do - - do -	2	9.740			1.69	32.922	
	- do - - do -	2	10.340			1.69	34.950	
	- do - - do -	2	10.940			1.69	36.978	
	- do - - do -	2	3.850			1.69	13.013	

	- do - - do -	2	4.450			1.69	15.041		
	- do - - do -	2	5.050			1.69	17.069		
	- do - - do -	2	5.650			1.69	19.097		
Rear building									
	(a)80x80x2.60 mm Rect.hollow section - wall plate	2	9.450			4.55	85.995		
	- do - - do - wall plate	1	5.800			4.55	26.390		
	(b) 60x40x2.60 mm Rect.hollow section - Commen rafter	2*10	3.720			3.73	277.512		
	(c)50x25x2.60 mm -do - Collar	1*10	1.200			2.71	32.520		
	- do - - do - Tie beam	3	5.800			2.71	47.154		
	(d) 25x25x2.60mm square hollow section purlin	2*4	9.850			1.69	133.172		
Porch									
	(a) 65 mm dia GI pipe for post	6	3.000			6.42	115.560		
	(b) 80x80x2.60 mm Rect. hollow section for wall plate	2	3.850			4.55	35.035		
	- do - -do - wall plate	2	3.800			4.55	34.580		
	(c) 60x50x2.60 mm - do - - do - for Com men rafter	2*3	2.410			3.73	53.936		
	(d) 50x25x2.60 mm - do - - do - for collar	1*3	1.200			2.71	9.756		
	(e) 25x25x2.60 mm square - do - for purlin	2*3	4.250			1.69	43.095		
	Total Quantity						1990.121 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						1990.121 kg		
	Say 1990.121 kg @ Rs 136.26 / kg						Rs 271173.89		
11	12.50 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.								
	Main building - Roof	2	11.40/2+7. 34/2	4.700			88.079		
	- do - sides	2	2*0.50*3.7 25	8.000			59.600		
	Rear building	2	3.800	10.000			76.000		
	Porch	2	2.550	4.500			22.950		
	Total Quantity						246.629 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						246.629 sqm		
	Say 246.629 sqm @ Rs 830.99 / sqm						Rs 204946.23		
12	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)								
	Main building - Ridge	1	7.400				7.400		
	- do - hip ridg	2*2	8.850				35.400		
	Rear building - Ridge	1	9.500				9.500		
	Porch - Ridge	1	3.900				3.900		
	Total Quantity						56.200 metre		
	Total Deducted Quantity						0.000 metre		
	Net Total Quantity						56.200 metre		
	Say 56.200 metre @ Rs 544.21 / metre						Rs 30584.60		
13	50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge								
	Basement filling								
	Varandha	1	10.350	3.750	0.450		17.466		
	hall	1	5.550	12.050	0.450		30.095		

	Office & Gas	2	1.950	2.600	0.450		4.564	
	Toilet	2	1.150	1.250	0.450		1.294	
	Total Quantity						53.419 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						53.419 cum	
	Say 53.419 cum @ Rs 469.93 / cum						Rs 25103.19	
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 size 0.90x2.10 mts. - V.F	2*2	0.100	0.075	2.100		0.063	
	- do - - do - H.F	2*2	0.100	0.075	0.900		0.027	
	- do - 0.80x2.10 mts - V.F	2*2	0.100	0.075	2.100		0.063	
	- do - - do - - H.F	2*2	0.100	0.075	0.800		0.024	
	window 1.50x1.50 mts V.F	5*4	0.100	0.075	1.500		0.225	
	- do - - do - H.F	5*2	0.100	0.075	1.500		0.113	
	- do - 1.10x1.50 mts V.F	2*3	0.100	0.075	1.500		0.068	
	- do - - do - H.F	2*2	0.100	0.075	1.100		0.033	
	Total Quantity						0.616 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						0.616 cum	
	Say 0.616 cum @ Rs 103455.59 / cum						Rs 63728.64	
15	9.53 Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30x10x15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)							
		22					22.000	
	Total Quantity						22.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						22.000 each	
	Say 22.000 each @ Rs 179.06 / each						Rs 3939.32	
16	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						
	window	5*14	1.500			0.89	93.450
	- do -	2*14	1.100			0.89	27.413
	Total Quantity						120.863 kg
	Total Deducted Quantity						0.000 kg
	Net Total Quantity						120.863 kg
	Say 120.863 kg @ Rs 158.00 / kg						Rs 19096.35
17	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						
	Door shutter	2	0.770	1.960			3.019
	- do -	2	0.660	1.960			2.588
	window shutter	5*3	0.450	1.350			9.113
	- do -	2*2	0.450	1.350			2.430
	Total Quantity						17.150 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						17.150 sqm
	Say 17.150 sqm @ Rs 2967.12 / sqm						Rs 50886.11
18	50.9.15.1 Supplying and fixing 200 mm Aluminium aldrops						
	Doors	4*1					4.000
	Total Quantity						4.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						4.000 no
	Say 4.000 no @ Rs 171.49 / no						Rs 685.96
19	50.9.15.5 Providing and fixing iron hooks and eyes: 100 mm						
	W1	5*3*2					30.000
	W2	2*2*2					8.000
	Total Quantity						38.000 no
	Total Deducted Quantity						0.000 no

		Net Total Quantity					38.000 no	
		Say 38.000 no @ Rs 12.38 / no					Rs 470.44	
20	9.63.1 Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete:250x10 mm							
		4*2				8.000		
		Total Quantity					8.000 no	
		Total Deducted Quantity					0.000 no	
		Net Total Quantity					8.000 no	
		Say 8.000 no @ Rs 96.63 / no					Rs 773.04	
21	9.100.1 Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete:125 mm							
		4				4.000		
		Total Quantity					4.000 no	
		Total Deducted Quantity					0.000 no	
		Net Total Quantity					4.000 no	
		Say 4.000 no @ Rs 77.15 / no					Rs 308.60	
22	10.6.1 Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.80x1.25 mm M.S. laths with 1.25 mm thick top cover							
	Rolling shutter	1	3.600	2.100		7.561		
		Total Quantity					7.561 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					7.561 sqm	
		Say 7.561 sqm @ Rs 3496.85 / sqm					Rs 26439.68	
23	13.17 6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.							
	Lintel	2	66.000	0.150		19.800		
	ceiling - Toilet	2	1.400	1.500		4.200		

						Total Quantity	24.000 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	24.000 sqm	
						Say 24.000 sqm @ Rs 291.24 / sqm	Rs 6989.76	
24	13.1.1 12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)							
	outer	1	46.800	2.850			133.380	
	office & Gas	2	10.100	2.850			57.570	
	Toilet	2	5.800	2.850			33.060	
	half wall (front)	2	4.000	2.000			16.000	
	- do -	2	3.400	2.000			13.600	
	Step	2	3.600	0.450			3.240	
						Deduction		
	Rolling shutter	1	3.400	2.100			-7.140	
	Door	2	0.900	2.100			-3.781	
	- do -	2	0.800	2.100			-3.361	
	Window	5	1.500	1.500			-11.250	
	dadoing walls (toilet)	2	5.800	1.500			-17.400	
						Total Quantity	256.850 sqm	
						Total Deducted Quantity	-42.932 sqm	
						Net Total Quantity	213.918 sqm	
						Say 213.918 sqm @ Rs 261.12 / sqm	Rs 55858.27	
25	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.							
	Toilet floor	2	1.400	1.500			4.200	
	Porch	1	3.800	3.850			14.630	
						Total Quantity	18.830 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	18.830 sqm	
						Say 18.830 sqm @ Rs 1039.27 / sqm	Rs 19569.45	
26	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 walls	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
27	11.39 Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS: 15622, of approved make in colours White, Ivory, Grey, fume Red Brown, 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.						
	Flooring						
	Varandha	1	10.800	4.200			45.361
	- do - - top -	2	4.600	0.200			1.840
	hall	1	6.000	12.500			75.000
	Office & Gas	2	2.400	3.050			14.640
	step (side)	2	0.600	0.150			0.180
	step - (side)	2	0.300	0.150			0.090
	step	1	3.600	1.050			3.781
	Total Quantity						140.892 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						140.892 sqm
	Say 140.892 sqm @ Rs 1241.74 / sqm						Rs 174951.23
28	13.44.1 Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm)						
	As per item No. 23	1		24.000			24.000
	As per item No.24	1		213.918			213.918
	Total Quantity						237.918 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						237.918 sqm
	Say 237.918 sqm @ Rs 88.78 / sqm						Rs 21122.36
29	13.48.2						

	Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture							
	Door	2	0.900	2.100	2.250		8.505	
	- do -	2	0.800	2.100	2.250		7.561	
	window	5	1.500	1.500	1.500		16.875	
	- do -	2	1.100	1.500	1.500		4.950	
	Total Quantity						37.891 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						37.891 sqm	
	Say 37.891 sqm @ Rs 133.77 / sqm						Rs 5068.68	
30	13.48.3 Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture							
	Rolling shutter	2	3.600	2.100			15.121	
	- do - top	1	3.600	0.600			2.160	
	Total Quantity						17.281 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						17.281 sqm	
	Say 17.281 sqm @ Rs 127.96 / sqm						Rs 2211.28	
31	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							
	W.C.pan	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 5161.55 / each						Rs 10323.10	
32	18.48 Providing and placing on terrace (at all floor levels) polyethylene water storage tank :ISI 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow							

	pipes but without fittings and the base support for tank.							
	Storage water Tank 1000 Lr or 1 No	1				1000.0	1000.000	
	Total Quantity						1000.000 Litre	
	Total Deducted Quantity						0.000 Litre	
	Net Total Quantity						1000.000 Litre	
	Say 1000.000 Litre @ Rs 10.95 / Litre						Rs 10950.00	
33	50.18.7.2.2 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 20 mm dia 10 Kg/cm ² - Internal work - Exposed on wall							
		2	6.000				12.000	
		2	8.000				16.000	
		2	7.000				14.000	
	Total Quantity						42.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						42.000 metre	
	Say 42.000 metre @ Rs 188.68 / metre						Rs 7924.56	
34	50.18.7.5.2 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 40 mm dia 6Kg/cm ² - Internal work - Exposed on wall							
		2	8.000				16.000	
		2	8.000				16.000	
	Total Quantity						32.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						32.000 metre	
	Say 32.000 metre @ Rs 288.06 / metre						Rs 9217.92	
35	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							
	Septic Tank	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
36	50.18.9.9.2 Providing and fixing PVC pipes includes joints of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in CHarge. 110 mm dia 4 Kg/cm2							
	snitary fittings							
	(a) 110 mm pipe length	4	4.000				16.000	
	Total Quantity						16.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						16.000 metre	
	Say 16.000 metre @ Rs 404.77 / metre						Rs 6476.32	
37	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							
	(b)110 mm pvc door elbow	4					4.000	
	Total Quantity						4.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						4.000 no	
	Say 4.000 no @ Rs 130.45 / no						Rs 521.80	
38	50.18.9.22.4 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement- 110 mm dia Bend							
	(C) 110 mm pvc plain bend	4					4.000	
	Total Quantity						4.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						4.000 no	
	Say 4.000 no @ Rs 159.51 / no						Rs 638.04	
39	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							
	(c) 110mm pvc plain bend	4					4.000	
	Total Quantity						4.000 no	

	Total Deducted Quantity						0.000 no	
	Net Total Quantity						4.000 no	
	Say 4.000 no @ Rs 122.29 / no						Rs 489.16	
40	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							
	(e) 110 mm pvc Tee	4					4.000	
	Total Quantity						4.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						4.000 no	
	Say 4.000 no @ Rs 173.13 / no						Rs 692.52	
41	50.18.7.4.1 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 32 mm dia 10Kgf/cm ² - Internal work - Exposed on wall							
	(f) 32 mm pvc pipe 10kg/sq.cm	15					15.000	
	Total Quantity						15.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						15.000 metre	
	Say 15.000 metre @ Rs 256.49 / metre						Rs 3847.35	
42	50.18.7.3.2 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 25 mm dia 10Kgf/ cm ² - Internal work- Exposed on wall							
	(G) 25 mm dia 10 kg/ sq.cm	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 212.73 / metre						Rs 5318.25	
43	18.15.1 Providing and fixing brass bib cock of approved quality :15 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 392.70 / each	Rs 785.40
44	50.17.1.2 Supplying and fixing CP Towel rod 45cm or nearest available length including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.								
	(H) Towel rod	2						2.000	
								Total Quantity	2.000 no
								Total Deducted Quantity	0.000 no
								Net Total Quantity	2.000 no
								Say 2.000 no @ Rs 87.34 / no	Rs 174.68
45	50.17.1.1 Supplying and fixing Stainless steel soap dish including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.								
	(I) soap dish	2						2.000	
								Total Quantity	2.000 no
								Total Deducted Quantity	0.000 no
								Net Total Quantity	2.000 no
								Say 2.000 no @ Rs 66.93 / no	Rs 133.86
46	50.17.1.4 Supplying and fixing CP Health faucet good quality including cost of materials and labour charges etc. complete as per the direction of site engineer-in-charge.								
	(J) Health faucet	2						2.000	
								Total Quantity	2.000 no
								Total Deducted Quantity	0.000 no
								Net Total Quantity	2.000 no
								Say 2.000 no @ Rs 758.03 / no	Rs 1516.06
Service Tax Amount									Rs 0.0
Total with Service Tax									Rs 1644494.55
SI No	Description	No	L	B	D	CF	Quantity	Remark	
2 Appendix - B . Watch man shed									
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.Allrond wall	1	15.600	0.800	0.750		9.360		

	B. Cross wall	1	0.600	0.800	0.750		0.360	
	C. Septic tank block	1	2.900	1.900	2.000		11.020	
	Total Quantity						20.740 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						20.740 cum	
	Say 20.740 cum @ Rs 251.23 / cum						Rs 5210.51	
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)							
	A.Allrond wall	1	15.600	0.800	0.150		1.872	
	B. Cross wall	1	0.600	0.800	0.150		0.072	
	C. Septic tank block	1	2.900	1.900	0.200		1.102	
	Flooring Toilet	1	1.000	1.000	0.075		0.075	
	Flooring Room	1	2.800	2.800	0.075		0.588	
	Total Quantity						3.709 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						3.709 cum	
	Say 3.709 cum @ Rs 6761.11 / cum						Rs 25076.96	
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							
	A.Allrond wall	1	15.600	0.600	0.600		5.616	
	B. Cross wall	1	0.800	0.600	0.600		0.288	
	Basement							
	A. Allround wall 1	1	15.600	0.400	0.400		2.497	
	B.Cross wall	1	1.000	0.400	0.400		0.161	
	Total Quantity						8.562 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						8.562 cum	
	Say 8.562 cum @ Rs 5987.64 / cum						Rs 51266.17	
4	50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers							

	not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge							
	Basement filling							
	Room	1	2.800	2.800	0.400		3.136	
	Toilet	1	1.000	1.000	0.400		0.400	
	Total Quantity						3.536 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						3.536 cum	
	Say 3.536 cum @ Rs 469.93 / cum						Rs 1661.67	
5	50.6.1.2 Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 (1 cement: 6 coarse sand) etc complete.							
	Super struct or							
	A - all round	1	15.600	0.200	3.000		9.360	
	B - cross wall	1	1.200	0.200	3.000		0.720	
	c - Septic tank allround	1	8.800	0.200	2.000		3.521	
	Deduction							
	Door	1	0.900	0.200	2.100		-0.378	
	Door 2	1	0.800	0.200	2.100		-0.336	
	Window	3	1.100	0.200	1.500		-0.990	
	Total Quantity						13.601 cum	
	Total Deducted Quantity						-1.704 cum	
	Net Total Quantity						11.897 cum	
	Say 11.897 cum @ Rs 5878.27 / cum						Rs 69933.78	
6	5.3 Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15 ⁰ 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).							
	Lintel outer	1	18.600	0.200	0.150		0.558	
	Roof slab	1	3.800	3.800	0.120		1.733	
	Roof - Toilet portion	1	1.400	1.800	0.120		0.303	
	Covering Slab (septic Tank)	1	2.900	1.900	0.100		0.551	

	Total Quantity							3.145 cum
	Total Deducted Quantity							0.000 cum
	Net Total Quantity							3.145 cum
	Say 3.145 cum @ Rs 11158.63 / cum							Rs 35093.89
7	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars							
	Lintel - 0.558 cu.m x55 kg/ cu.m	0.558*55					30.690	
	Roof slab - 2.60 cu.m x 90kg/cu.m	2.60*90					234.000	
	Total Quantity							264.690 kilogram
	Total Deducted Quantity							0.000 kilogram
	Net Total Quantity							264.690 kilogram
	Say 264.690 kilogram @ Rs 85.45 / kilogram							Rs 22617.76
8	5.9.5 Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders, bressumers and cantilevers							
	Shuttering							
	lintel -outer	1	4.800	0.150			0.720	
	- do -	1	1.600	0.150			0.240	
	- do -	1	1.400	0.150			0.210	
	- do -	1	1.800	0.150			0.270	
	- do -	2	3.400	0.150			1.020	
	inner room	4	3.000	0.150			1.800	
	- do -	4	1.200	0.150			0.720	
	covering slab sides	2	2.900	0.100			0.580	
	- do -	2	1.900	0.100			0.380	
	Total Quantity							5.940 sqm
	Total Deducted Quantity							0.000 sqm
	Net Total Quantity							5.940 sqm
	Say 5.940 sqm @ Rs 517.71 / sqm							Rs 3075.20
9	5.9.3 Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform							

		Shuttering							
	Roof Slab	1	3.800	3.800			14.440		
	- do -	1	1.400	1.800			2.520		
		Deduction							
	wall thickness	1	18.600	0.200			-3.720		
		Total Quantity						16.960 sqm	
		Total Deducted Quantity						-3.720 sqm	
		Net Total Quantity						13.240 sqm	
		Say 13.240 sqm @ Rs 637.59 / sqm						Rs 8441.69	
10	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 size 0.90x2.10 mts. - V.F	2	0.100	0.075	2.100		0.032		
	- do - - do - H.F	2	0.100	0.075	0.900		0.014		
	window 1.10x1.50 mts V.F	3*3	0.100	0.075	1.500		0.102		
	- do - - do - H.F	3*2	0.100	0.075	1.100		0.050		
		Total Quantity						0.198 cum	
		Total Deducted Quantity						0.000 cum	
		Net Total Quantity						0.198 cum	
		Say 0.198 cum @ Rs 103455.59 / cum						Rs 20484.21	
11	13.7.2 12 mm cement plaster finished with a floating coat of neat cement of mix:1:4 (1 cement : 4 fine sand)								
		plaserig							
	outer	1	16.400	2.850			46.740		
	inner room	1	12.000	2.850			34.200		
	- do - (Toilet wall)	1	4.800	2.850			13.680		
		deduction							
	Door	1	0.900	2.100			-1.890		
	Door (pvc)	1	0.800	2.100			-1.680		
	window	3	1.100	1.500			-4.950		
		Total Quantity						94.620 sqm	
		Total Deducted Quantity						-8.520 sqm	

	Net Total Quantity						86.100 sqm	
	Say 86.100 sqm @ Rs 323.40 / sqm						Rs 27844.74	
12	13.17 6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.							
	Room - celing	1	3.000	3.000			9.000	
	Toilet - do -	1	1.200	1.200			1.440	
	Total Quantity						10.440 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						10.440 sqm	
	Say 10.440 sqm @ Rs 291.24 / sqm						Rs 3040.55	
13	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							
	Door shutter	2	0.770	1.960			3.019	
	window shutter	3*2	0.360	1.350			2.916	
	Total Quantity						5.935 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						5.935 sqm	
	Say 5.935 sqm @ Rs 2967.12 / sqm						Rs 17609.86	
14	9.143 Providing and fixing factory made uPVC door frame, made of uPVC extruded section, of size 65 mm x 55 mm with wall thickness 2.0 mm (? 0.2mm), corners of the door frame to be mitred cut and jointed with plastic brackets and stainless steel screws, reinforcing hinge side vertical of the frames with PVC profile of Size 28 mm x 30 mm having wall thickness 2 mm (? 0.2 mm), including providing & fixing 3 nos of 125 mm long stainless steel hinges to the frame, fixing the frame with jamb with required number & size of anchor dash fastners, all complete as per manufacturer's specification and direction of Engineer-in-charge.							
	Door frame (pvc door)	2	2.100				4.200	
	- do -	2	0.800				1.600	
	Total Quantity						5.800 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						5.800 metre	
	Say 5.800 metre @ Rs 643.02 / metre						Rs 3729.52	
15	9.142.1							

	35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded solid PVC (±0.2 mm) thick, having styles & rails (except lock rail) of size 95 mmx 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinges side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm x 20 mm x 1 mm, joints of styles & rails to be mitered cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm x 100 mm of cross section size 35 mm x 17 mm s 1 mm at each corner. Single piece extruded 5 mm thick solid PVC Lock rail of size 115 mm x 35 mm x 35 mm, out of which 95 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge.Non decorative finish (matt finish)						
	PVC door shutter	1	0.800	2.100			1.681
	Total Quantity						1.681 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						1.681 sqm
	Say 1.681 sqm @ Rs 4104.32 / sqm						Rs 6899.36
16	9.53 Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30x10x15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)						
		4*2					8.000
	Total Quantity						8.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						8.000 each
	Say 8.000 each @ Rs 179.06 / each						Rs 1432.48
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						
	window	3*14	1.100			0.89	41.118
	Total Quantity						41.118 kg
	Total Deducted Quantity						0.000 kg
	Net Total Quantity						41.118 kg
	Say 41.118 kg @ Rs 158.00 / kg						Rs 6496.64
18	11.39 Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS: 15622, of approved make in colours White, Ivory, Grey, fume Red Brown, 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.						
	Flooring						
	Room	1	3.200	3.200			10.241
	Total Quantity						10.241 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						10.241 sqm
	Say 10.241 sqm @ Rs 1241.74 / sqm						Rs 12716.66
19	<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>						
	Toilet	1	1.200	1.200			1.440
	Total Quantity						1.440 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						1.440 sqm
	Say 1.440 sqm @ Rs 1039.27 / sqm						Rs 1496.55
20	<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>						
	Toilet wall	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
21	<p>9.100.1 Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete:125 mm</p>						
	Handles	2					2.000
	Total Quantity						2.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						2.000 no

	Say 2.000 no @ Rs 77.15 / no						Rs 154.30	
22	9.63.1 Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete:250x10 mm							
	Towel bolt	2					2.000	
	Total Quantity						2.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						2.000 no	
	Say 2.000 no @ Rs 96.63 / no						Rs 193.26	
23	50.9.15.1 Supplying and fixing 200 mm Aluminium aldrops							
	door	2*1					2.000	
	Total Quantity						2.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						2.000 no	
	Say 2.000 no @ Rs 171.49 / no						Rs 342.98	
24	50.9.15.5 Providing and fixing iron hooks and eyes: 100 mm							
	Window	3*2*2					12.000	
	Total Quantity						12.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						12.000 no	
	Say 12.000 no @ Rs 12.38 / no						Rs 148.56	
25	13.44.1 Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm)							
	As per item no. 11	1	86.100				86.100	
	As per item no. 12	1	10.440				10.440	
	Total Quantity						96.540 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						96.540 sqm	
	Say 96.540 sqm @ Rs 88.78 / sqm						Rs 8570.82	
26	13.48.2 Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of							

	approved brand and manufacture							
	Door	1	0.900		2.100	2.25	4.253	
	Windows	3	1.100		1.500	1.5	7.426	
	Total Quantity						11.679 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						11.679 sqm	
	Say 11.679 sqm @ Rs 133.77 / sqm						Rs 1562.30	
27	50.18.8.9.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes 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. 110 mm pipe 4 kgf/cm2							
	snitary fittings							
	(a) 110 mm pipe length	1	10.000				10.000	
	Total Quantity						10.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						10.000 metre	
	Say 10.000 metre @ Rs 572.51 / metre						Rs 5725.10	
28	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							
	(b)110 mm pvc 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 130.45 / no						Rs 130.45	
29	50.18.9.22.4 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement- 110 mm dia Bend							
	110 mm plain bend	2					2.000	
	Total Quantity						2.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						2.000 no	
	Say 2.000 no @ Rs 159.51 / no						Rs 319.02	

30	50.18.9.22.6 Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110x110x110 mm dia Door tee						
	Pvc 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 185.95 / no						Rs 185.95
31	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						
	Vent cowl	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 122.29 / no						Rs 122.29
32	50.18.7.3.2 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 25 mm dia 10Kgf/ cm2- Internal work- Exposed on wall						
		1	6.000				6.000
	Total Quantity						6.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						6.000 metre
	Say 6.000 metre @ Rs 212.73 / metre						Rs 1276.38
33	18.15.1 Providing and fixing brass bib cock of approved quality :15 mm nominal bore						
		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 392.70 / each						Rs 392.70
34	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
35	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
36	17.7.3 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 550x400 mm with a pair of 15 mm C.P. brass pillar taps						
		1	1.000				1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 3163.48 / each						Rs 3163.48
37	50.17.1.4 Supplying and fixing CP Health faucet good quality 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 758.03 / no						Rs 758.03
Service Tax Amount							Rs 0.0

Total with Service Tax Rs 364016.10								
SI No	Description	No	L	B	D	CF	Quantity	Remark
3 Eletrification								
Lump-Sum Total							Rs 150000.00	
	SI No	Description	No	L	B	D	CF	Quantity
Remark	4 15 KVA Genertor							
Lump-Sum Total							Rs 50000.00	
	SI No	Description	No	L	B	D	CF	Quantity
Remark	5 Gas furnace with chimney as per ISI marked and specification approved by SPCB							
Lump-Sum Total							Rs 2900000.00	
	SI No	Description	No	L	B	D	CF	Quantity
Remark	6 Water supply and water source if any (as per site condition)							
Lump-Sum Total							Rs 50000.00	
	SI No	Description	No	L	B	D	CF	Quantity
Remark	7 Name board							
Lump-Sum Total							Rs 2500.00	
	SI No	Description	No	L	B	D	CF	Quantity
Remark	8 Unforeseen							
Lump-Sum Total							Rs 3989.00	
							TOTAL Rs 5165000.00	
							Rounded Total Rs 51,65,000	
Rupees Fifty One Lakh Sixty Five Thousand Only								

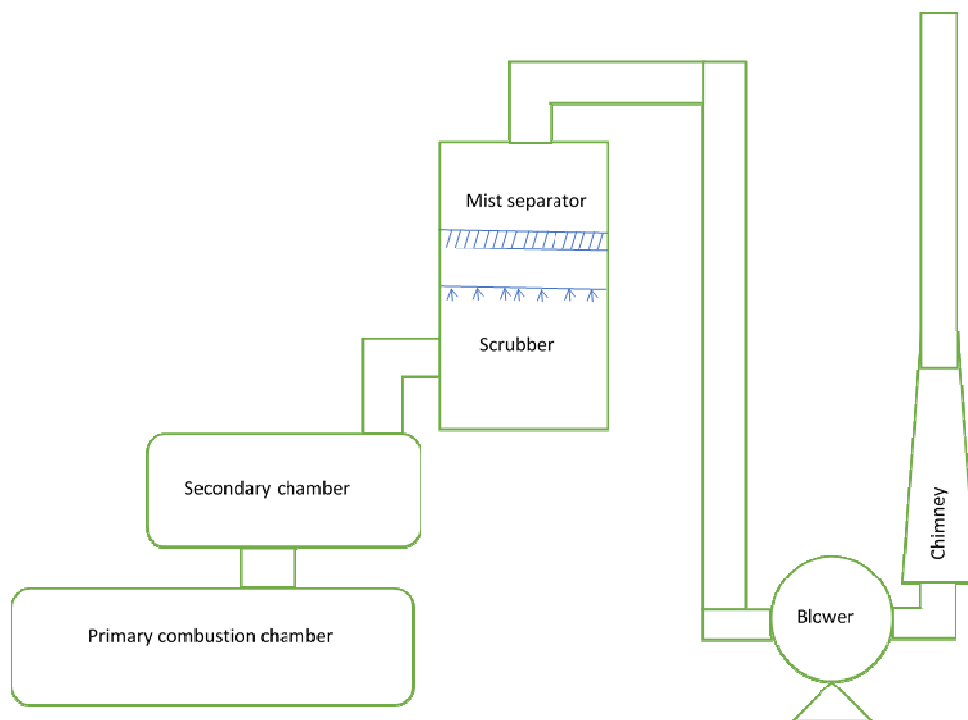
(Cost Index Applied for this estimate is 50.98%)

SPECIFICATIONS FOR CREMATOR (FURNACE AND CHIMNEY) FOR LPG

CREMATORIUM

The Furnace System comprises of:

1. Primary Combustion Chamber
2. Body Loading Trolley
3. Hot Duct
4. Secondary Combustion Chamber
5. Venturi Wet Scrubber
6. Mist Eliminator
7. Dilution System
8. Stack
9. Control Panel
10. Ash Chamber



Process flow diagram

1. Technical Specifications

1. Primary Chamber : 9ft x 6ft x 5ft
2. Secondary Chamber : Sufficient Size so that a residence time of at least 1 sec at 1100⁰C is provided for the exit gases from the primary chamber to get exposed to the flame of the after burner.
3. Temperature in primary chamber : 800 ± 50⁰C
4. Temperature in Secondary Chamber : 1050 ± 50⁰C
5. Fuel : Liquified Petroleum Gas
6. Door of Primary Chamber : Front opening, vertical sliding, counter weight balanced with view port.
7. Burner System : Full length burners on either side of primary and secondary chamber
8. Gas pipe line : Made of Copper/M.S with pressure gauge
9. Insulation : Withstanding 1100⁰C
10. Chimney : 30m height
11. LP Gas cylinder : Minimum 8 number.
12. Power : Approximately 7kW, 3 phase connections
13. Emission : Parameters to meet KSPCB standards
14. Furnace bed & Structure : Stainless steel, strong, High quality alumina/fire bricks with air holes to secondary chamber.
15. Cremation time/body : 60-90 minutes.

16. LPG consumption : 12 ± 2 kg.

The following requirements are also to be satisfied

1. Wet Scrubber & cloud chamber : For the removal of toxic gases and particulate matter from the emission from the secondary chamber before letting out the emission into the atmosphere through chimney of 30m height.
2. Dilution system with ID Fan : To bring down further the concentration of pollutant parameters in the emissions.
3. Combustion Air Supply : With blower for the supply of oxygen for incineration of the body in the primary chamber and supply of excess air to the secondary chamber.
4. Trolley : Stretcher type trolley with rollers moving on ball bearings for easy sliding in of the body into the primary chamber.
5. Temperature Sensor : Cr/Al Thermocouple-one number in each chamber.
6. Temperature control and indication AC : Solid State digital type temperature indicator controller 0-1200°C in each chamber.
7. Safety controller : Solid state non-indicating controller 0+1200°C in each chamber to take care of control activity in case of failure.
8. Ash removal : At rear side of primary chamber, scraping by manual operation, with hinged type door manually operated.
9. Painting : Steel items to be enamel painted