

Office of the Chief Engineer LSGD

CONSTRUCTION OF MODERN GAS CREMATORIUM -PERMANENT PITCHED &
FLAT ROOF TYPE (MODEL ESTIMATE)

Detailed Estimate

(Cost Index Applied for this estimate is 50.98%)

SI 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							
	Foundation							
	A - column	18	1.400	1.400	1.150		40.572	
	B - All round	1	52.900	0.800	0.750		31.741	
	c - Longitudinal (L&amp;R) long wall	2	2.500	0.800	0.750		3.000	
	D - - do - do - short wal	2	0.900	0.800	0.750		1.080	
	E- Cross wall (Long wall)	2	5.200	0.800	0.750		6.240	
	F - do (short wall)	2	0.800	0.800	0.750		0.961	
	G - steps	1	3.600	0.700	0.300		0.756	
	deduction							
	pillar portion	16	1.200	0.800	0.750		-11.520	
	Total Quantity						84.350 cum	
	Total Deducted Quantity						-11.520 cum	
	Net Total Quantity						72.830 cum	
	Say 72.830 cum @ Rs 251.23 / cum						Rs 18297.08	
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 - column	18	1.400	1.400	0.200		7.056	

	B - all round wall	1	52.900	0.800	0.150		6.348	
	C - Longitudinal (L&amp;R)	2	2.500	0.800	0.150		0.600	
	D - Longitudinal (L&amp;R)	2	0.900	0.800	0.150		0.217	
	E - Cross wall	1	5.200	0.800	0.150		0.624	
	F - Cross wall	2	0.800	0.800	0.150		0.193	
	G - steps	1	3.600	0.700	0.100		0.252	
	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	
	o f f i c E &amp;Gas	2	1.150	1.250	0.075		0.216	
	deduction							
	pillar portion	16	1.200	0.800	0.150		-2.304	
	Total Quantity						24.189 cum	
	Total Deducted Quantity						-2.304 cum	
	Net Total Quantity						21.885 cum	
	Say 21.885 cum @ Rs 6761.11 / cum						Rs 147966.89	
3	4.3.1 Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations, footings, bases for columns							
	column footing	18*4	1.200	0.300			25.920	
	- do-	18*4	1.45/2	0.650			33.930	
	Total Quantity						59.850 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						59.850 sqm	
	Say 59.850 sqm @ Rs 292.83 / sqm						Rs 17525.88	
4	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							
	Foundation footing							
	Footing bed	18	1.200	1.200	0.300		7.776	

	18x1.0sqx0.45sqx0.65 /2	18	1.2025/2		0.650		7.035	
	Total Quantity						14.811 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						14.811 cum	
	Say 14.811 cum @ Rs 9383.94 / cum						Rs 138985.54	
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							
	B - all round wall	1	52.900	0.600	0.600		19.044	
	C - Longitudinal (L&amp;R)	2	2.500	0.600	0.600		1.800	
	D - Longitudinal (L&amp;R)	2	0.900	0.600	0.600		0.648	
	E - Cross wall	1	5.200	0.600	0.600		1.872	
	F - Cross wall	2	0.800	0.600	0.600		0.576	
	G - steps	1	3.600	0.600	0.200		0.433	
	Basement							
	B - all round wall	1	52.900	0.450	0.450		10.713	
	C - Longitudinal (L&amp;R)	2	2.600	0.450	0.450		1.054	
	D - Longitudinal (L&amp;R)	2	1.250	0.450	0.450		0.507	
	E - Cross wall	1	5.550	0.450	0.450		1.124	
	F - Cross wall	2	1.150	0.450	0.450		0.466	
	Deductoin							
	Pillar portion foundation	16	1.200	0.600	0.300		-3.456	
	- do -	16	1.45/2	1.45/2	0.650		-5.466	
	Column at basement	16	0.300	0.200	0.450		-0.432	
	Total Quantity						38.237 cum	
	Total Deducted Quantity						-9.354 cum	
	Net Total Quantity						28.883 cum	
	Say 28.883 cum @ Rs 5987.64 / cum						Rs 172941.01	

6	5.9.6 Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts							
	Pillar							
	Column at basement	16*1	1.000	0.450			7.200	
	Column above basement	16*1	1.000	3.600			57.600	
	- do -	2*1	1.000	2.100			4.200	
	Total Quantity						69.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						69.000 sqm	
	Say 69.000 sqm @ Rs 706.36 / sqm						Rs 48738.84	
7	5.2.2 Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up tot floor five level excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3(1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)							
	Columns							
	Columns at basement	16	0.300	0.200	0.450		0.432	
	Columns above basement	16	0.300	0.200	3.600		3.456	
	- do - porch	2	0.250	0.250	2.100		0.263	
	Total Quantity						4.151 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						4.151 cum	
	Say 4.151 cum @ Rs 10788.73 / cum						Rs 44784.02	
8	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							
	Reinforcement							
	As per item No 4 - 1 4 . 8 1 1 cu.mx110kg/cu.m	1					1629.21	1629.210
	As per item No.7 - 4 . 1 5 1 cu.mx100kg/cu.m	1					415.1	415.100

	As per item No.13 & 14 - 30.345 cu.m x 90 kg/cm.m	1					2731.05	2731.050	
	Total Quantity							4775.360 kilogram	
	Total Deducted Quantity							0.000 kilogram	
	Net Total Quantity							4775.360 kilogram	
	Say 4775.360 kilogram @ Rs 85.45 / kilogram							Rs 408054.51	
9	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								
	B - all round wall	1	52.900	0.200	3.600			38.088	
	C - Longitudinal (L&R)	2	2.850	0.200	3.600			4.105	
	D - Longitudinal (L&R)	2	1.500	0.200	3.600			2.161	
	E - Cross wall	1	5.800	0.200	3.600			4.176	
	F - cross wall	1	1.400	0.200	3.000			0.840	
	G - Step	1	3.600	0.600	3.600			7.777	
	G - steps ii nd	1	3.600	0.300	0.150			0.162	
	parapet	2	9.250	0.100	0.500			0.925	
	- do -	1	5.800	0.100	0.500			0.290	
	Gabble portion (front)	1	1/2*1.70	0.200	0.850			0.145	
	Extra heigh for pitched roof portion -all round wall	1	30.400	0.200	0.450			2.736	
	Deduction								
	pillar portion	16	0.300	0.200	3.000			-2.880	
	Rolling shutter	1	3.450	0.200	2.100			-1.449	
	Door	2	0.900	0.200	2.100			-0.756	
	Door 2	2	0.800	0.200	2.100			-0.672	
	window	5	1.500	0.200	1.500			-2.250	
	window 2	2	1.100	0.200	1.500			-0.660	
	varandha portion sides	2	4.000	0.200	1.500			-2.400	

	varandha portion front	2	3.200	0.200	1.500		-1.920	
	-do-porch portion	1	3.400	0.200	2.100		-1.428	
	- do -	1	3.400	0.200	2.000		-1.360	
	Lintel	1	66.000	0.200	0.150		-1.980	
	pillor portion	16	0.300	0.200	0.150		-0.144	
	Total Quantity						61.405 cum	
	Total Deducted Quantity						-17.899 cum	
	Net Total Quantity						43.506 cum	
	Say 43.506 cum @ Rs 5878.27 / cum						Rs 255740.01	
10	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers							
	Shuttering							
	Lintel outr	1	46.600	0.150			6.990	
	- do - inner	1	68.000	0.150			10.200	
	Beam	3	5.800	1.000			17.400	
	varandha beam	2*2	4.000	1.000			16.000	
	- do -	2	10.600	1.000			21.200	
	porch -do -	2*2	3.500	1.000			14.000	
	- do -	2	3.400	1.000			6.800	
	Sunshade-front	2	4.200	0.600			5.040	
	-do- sides	2	7.450	0.600			8.940	
	sunshade - back sides	2	9.250	0.600			11.100	
	-do-	1	7.400	0.600			4.440	
	Total Quantity						122.110 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						122.110 sqm	
	Say 122.110 sqm @ Rs 517.71 / sqm						Rs 63217.57	
11	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 (Pitched)	2	$(12.2+6.6) / 2$	3.150			59.220	

	_ do - (sides)	2	(5.6+0)/2	3.150			17.640	
	-do- Porch (Pitched)	2	2.740	4.500			24.661	
	- do - (Rear flat roof trolley & furnace room)	1	6.600	12.700			83.820	
	-do- office & gas store room	2	3.450	2.400			16.560	
	Toilet	2	1.600	1.700			5.440	
	Deduction							
	wall thickness	1	61.600	0.200			-12.320	
	- do -	2	2.200	0.200			-0.880	
	- do -	2	1.400	0.200			-0.559	
	Total Quantity						207.341 sqm	
	Total Deducted Quantity						-13.759 sqm	
	Net Total Quantity						193.582 sqm	
	Say 193.582 sqm @ Rs 637.59 / sqm						Rs 123425.95	
12	5.9.16.1 Centering and shuttering including strutting, etc. and removal of form for:Edges of slabs and breaks in floors and walls Under 20 cm wide							
	Pitched main	2	12.200				24.400	
	-do-	2	5.600				11.200	
	Porch	2	4.450				8.900	
	-do-	2	2.740				5.480	
	Flat roof	2	12.500				25.000	
	-do-	1	6.600				6.600	
	-do-	2	2.400				4.800	
	Toilets	2	(1.60+1.70)				6.600	
	Sunshade front	2	4.200				8.400	
	-do- sides	2	7.450				14.900	
	Sunshade-back sides	2	9.250				18.500	
	-do-rear	1	7.400				7.400	
	Total Quantity						142.180 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						142.180 metre	

		Say 142.180 metre @ Rs 184.50 / metre					Rs 26232.21	
13	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	45.800	0.200	0.150		1.374	
	Lintel inner	1	9.200	0.200	0.150		0.276	
	Beam	3	6.200	0.200	0.400		1.489	
	- do - varandha	2	4.000	0.200	0.400		0.641	
	- do - -do -	3	3.400	0.200	0.400		0.817	
	- do - porch	2	3.450	0.200	0.400		0.552	
	- do - beam	1	3.400	0.200	0.400		0.272	
	Sunshade -front	2	4.200	0.600	0.075		0.378	
	-do- sides	2	7.450	0.600	0.075		0.671	
	sunshade - back sides	2	9.250	0.600	0.075		0.833	avg
	- do - rear	1	7.400	0.600	0.075		0.333	avg
	- do - (Rear flat roof)	1	6.600	12.700	0.120		10.059	
	-do- office & gas roo	2	3.450	2.400	0.120		1.988	
	- do - Toilet	2	1.600	1.700	0.120		0.653	
Deduction								
	Lintel (pillar portion)	16	0.300	0.200	0.150		-0.144	
Total Quantity							20.336 cum	
Total Deducted Quantity							-0.144 cum	
Net Total Quantity							20.192 cum	
Say 20.192 cum @ Rs 11158.63 / cum							Rs 225315.06	
14	5.5 Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15 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)							
Pitched Roof								
	Roof slab (Pitched)	2	$(12.2+6.6)/2$	3.150	0.100		5.922	
	- do - sides (Pitched)	2	$(5.6+0)/2$	3.150	0.100		1.764	

	- do - porch (Pitched)	2	2.740	4.500	0.100		2.467		
	Total Quantity						10.153 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						10.153 cum		
	Say 10.153 cum @ Rs 11613.31 / cum						Rs 117909.94		
15	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								
	varendha	1	10.350	3.750	0.450		17.466		
	hall	1	5.550	12.050	0.450		30.095		
	O f f i c e & & & 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		
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								
	wood work								
	Door Size 0.90 x 2.10 mts V.F	2*2	0.100	0.075	2.100		0.063		
	- Do - H.F	2*2	0.100	0.075	0.900		0.027		
	- do - size 0.80 x 2.10 mts V.F	2*2	0.100	0.075	2.100		0.063		
	- do - H.F	2*2	0.100	0.075	0.800		0.024		
	w i n d o w s i z e 1.50x1.50 mts V.F	5*4	0.100	0.075	1.500		0.225		
	- do - H.F	5*2	0.100	0.075	1.500		0.113		
	- w i n d o w S i z e 1.10x1.50 mts V.F	2*3	0.100	0.075	1.500		0.068		
	- 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
17	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
18	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
19	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

20	50.9.15.1 Supplying and fixing 200 mm Aluminium aldrops							
	Doors	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 171.49 / no						Rs 685.96	
21	50.9.15.5 Providing and fixing iron hooks and eyes: 100 mm							
	Windows							
	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	
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							
	Doors	2*4					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	
23	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							
	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 77.15 / no						Rs 308.60	
24	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
25	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.						
	Beam (hall)	3	5.800	0.800			13.920
	- do - (varandha)	2	4.000	1.000			8.000
	- do -	1	10.600	1.000			10.600
	- do - (porch)	2	3.450	1.000			6.900
	_ do -	1	3.400	1.000			3.400
	pillor	16	0.400	3.600			23.041
	pillor	2	0.800	2.100			3.361
	Lintel	2	66.000	0.150			19.800
	Open verandah (Pitched roof)	2	$(12.2+6.6)/2$	3.150			59.220
	- do - (sides)	2	$(5.6+0)/2$	3.150			17.640
	- do - office & gas room	2	2.600	3.250			16.901
	Toilet - do -	2	1.600	1.700			5.440
	sunshade - do -	1	49.200	1.275			62.730
	porch - do -	2	2.740	4.500			24.661
	- do - flat roof (trolley & furnace area)	1	6.600	12.500			82.500
	Slab edges Pitched roof	1	41.580		0.100		4.158
	slab edges -flat roof	1	43.000		0.125		5.375
	deduction						
	wall thickness	1	46.800	0.200			-9.360

	- do - - do -	1	10.600	0.200			-2.120		
	-do-	2	5.550	0.200			-2.220		
	Total Quantity						367.647 sqm		
	Total Deducted Quantity						-13.700 sqm		
	Net Total Quantity						353.947 sqm		
	Say 353.947 sqm @ Rs 291.24 / sqm						Rs 103083.52		
26	13.1.1 12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)								
	plastering								
	outer	1	46.800	3.450			161.460		
	office & Gas (inner)	2	10.100	3.450			69.690		
	Trolley and furnace area	1	36.200	3.450			124.891		
	Verandah cross wall	1	10.600	3.450			36.570		
	Toilet	2	5.800	3.450			40.020		
	half wall (front)	2	4.000	2.000			16.000		
	- do -	2	3.400	2.000			13.600		
	parapet - outer	2	9.350	1.200			22.440		
	- do - inner	1	5.800	1.200			6.960		
	step	2	3.600	0.450			3.240		
	Gabble portion	2*1/2	1.700	0.850			1.445		
	Extra height for pitched roof -outer	1	30.800	0.450			13.861		
	-do- inner all around	1	29.600	0.450			13.320		
	deduction								
	Rolling shutter	1	3.400	2.100			-7.140		
	Door	2	0.900	2.100			-3.780		
	- do -	2	0.800	2.100			-3.360		
	window	5	1.500	1.500			-11.250		
	dadoing walls (toilet)	2	5.800	1.500			-17.400		
	Total Quantity						523.497 sqm		
	Total Deducted Quantity						-42.930 sqm		
	Net Total Quantity						480.567 sqm		
	Say 480.567 sqm @ Rs 261.12 / sqm						Rs 125485.66		

27	12.20	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete						
		Roof tiles						
	Roof slab (kura)	2	$(12.2+6.6)/2$	3.150			59.220	
	_ do - (sides)	2	$(5.8+0)/2$	3.150			18.270	
	porch	2	2.740	4.500			24.661	
		Total Quantity					102.151 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					102.151 sqm	
		Say 102.151 sqm @ Rs 661.97 / sqm					Rs 67620.90	
28	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.						
		Wall tiles						
	Toilet walls	2	5.800	1.500			17.400	
		Total Quantity					17.400 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					17.400 sqm	
		Say 17.400 sqm @ Rs 1039.27 / sqm					Rs 18083.30	
29	11.38	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 all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.						
		Flooring						
	Toilet floor	2	1.400	1.500			4.200	
	porch - do -	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 1129.18 / sqm					Rs 21262.46	

30	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	
	O f f i c e & & Gas	2	2.400	3.050			14.640	
	step (side)	2	0.600	0.150			0.180	
	step - do-	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
31	13.43.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						
	As per item No.25	1					353.95	353.947
	As per item No.26	1					480.57	480.570
							Total Quantity	834.517 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	834.517 sqm
							Say 834.517 sqm @ Rs 55.79 / sqm	Rs 46557.70
32	13.60.1	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work						
	As per item No.25	1					353.95	353.947
	As per item No.26	1					480.57	480.570
							Total Quantity	834.517 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	834.517 sqm
							Say 834.517 sqm @ Rs 127.50 / sqm	Rs 106400.92

33	13.46.1 Finishing walls with Acrylic Smooth exterior paint of required shade:New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)						
	Over roof tile						
	Roof slab (kura)	2	(12.2+6.6) /2	3.150			59.220
	_ do - (sides)	2	(5.8+0)/2	3.150			18.270
	porch	2	2.740	4.500			24.661
	Total Quantity						102.151 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						102.151 sqm
	Say 102.151 sqm @ Rs 145.02 / sqm						Rs 14813.94
34	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
35	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

36	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
37	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 1 No. or 1000Litter1	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
38	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
39	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	
40	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							
	Septick 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	
41	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							
	Sanitary fittings							
	(A) 110mm dia pvc pipe 4kg/sq.cm	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	
42	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) 110mm 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	
43	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	
44	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							
	(D) 110mm pvc vent cowl	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	
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							
	(E) 110mmpvc 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	
46	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) 32mm 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	
47	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							
	PVC pipe	1	10.000				10.000	
	- do -	1	15.000				15.000	
	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	
48	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	
49	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	
50	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	
51	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 2762230.43											
Sl No	Description	No	L	B	D	CF	Quantity	Remark			
2 APPENDIX B - WATCHMAN 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										
	Foundation										
	A - All round	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)										
	Foundation										
	A - All round	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)bottom	1	2.900	1.900	0.200		1.102				
	Flooring Toilet	1	1.000	1.000	0.075		0.075				
	-do - 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 - All round	1	15.600	0.600	0.600		5.616
	B- Cross wall	1	0.800	0.600	0.600		0.288
	Basement						
	A. all round	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 structure						
	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 wall	1	8.800	0.200	2.000		3.521
	Deductions						

	Door	1	0.900	0.200	2.100		-0.379		
	Door 2	1	0.800	0.200	2.100		-0.337		
	window	3	1.100	0.200	1.500		-0.991		
	Total Quantity						13.601 cum		
	Total Deducted Quantity						-1.707 cum		
	Net Total Quantity						11.894 cum		
	Say 11.894 cum @ Rs 5878.27 / cum						Rs 69916.14		
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	1	3.800	3.800	0.120		1.733		
	Roof (T)	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								
	Reinforcement								
	Lintel - 0.558 cu.m x 55 kg/cu.m	0.558*55					30.690		
	Roof - 2.60 cu.m x 90 kg/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 outr	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 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			-3.721	
							Total Quantity	16.960 sqm
							Total Deducted Quantity	-3.721 sqm
							Net Total Quantity	13.239 sqm
							Say 13.239 sqm @ Rs 637.59 / sqm	Rs 8441.05
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							
		wood work						
	Door Size 0.90 x 2.10 mts V.F	2	0.100	0.075	2.100		0.032	
	- Do - H.F	2	0.100	0.075	0.900		0.014	

	window size 1.10x1.50mts -V.F	3*3	0.100	0.075	1.500		0.102	
	- 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)							
	plastering							
	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	
	Deductions							
	Door	1	0.900	2.100			-1.891	
	Door (pvc door)	1	0.800	2.100			-1.681	
	window	3	1.100	1.500			-4.950	
	Total Quantity						94.620 sqm	
	Total Deducted Quantity						-8.522 sqm	
	Net Total Quantity						86.098 sqm	
	Say 86.098 sqm @ Rs 323.40 / sqm						Rs 27844.09	
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.							
	ceiling							
	Room	1	3.000	3.000			9.000	
	Toilet	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	1	0.770	1.960			1.510
	Window	3*2	0.360	1.350			2.916
	Total Quantity						4.426 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						4.426 sqm
	Say 4.426 sqm @ Rs 2967.12 / sqm						Rs 13132.47
14	<p>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.</p>						
	Door frame(pvc)	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	<p>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)</p>						
	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							
	providing 12mm MS rod for window grill	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.							
	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	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	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	11.36	Providing and fixing I 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.					
	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	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					
	hadles	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					
	Tower 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 aldrop					
		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 171.49 / no						Rs 342.98	
24	50.9.15.5 Providing and fixing iron hooks and eyes: 100 mm							
	W	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	13.43.1 Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer							
	as per item no. 11	1	86.098				86.098	
	as per item no. 12	1	10.440				10.440	
	Total Quantity						96.538 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						96.538 sqm	
	Say 96.538 sqm @ Rs 55.79 / sqm						Rs 5385.86	
26	13.60.1 Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work							
	as per item no. 11	1	86.098				86.098	
	as per item no. 12	1	10.440				10.440	
	Total Quantity						96.538 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						96.538 sqm	
	Say 96.538 sqm @ Rs 127.50 / sqm						Rs 12308.60	
27	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	2.250		4.253	
	Window	3	1.100	1.500	1.500		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
28	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/cm ²						
	110 mm dia pvc pipe	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
29	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						
	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 130.45 / no	Rs 130.45
30	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						
	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
31	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						
		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
32	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							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
33	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
34	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
35	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	
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						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		
37	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		
38	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 368643.43											
SI No	Description	No	L	B	D	CF	Quantity	Remark			
3 Eletriification											
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 as per ISI mark and specification approved by SPCB							
Lump-Sum Total							Rs 2900000.00	
	SI No	Description	No	L	B	D	CF	Quantity
Remark	6 Water supply arrangements if any (Prepare detailed estimate as per site condition)							
Lump-Sum Total							Rs 50000.00	
	SI No	Description	No	L	B	D	CF	Quantity
Remark	7 Providing Name board							
Lump-Sum Total							Rs 2500.00	
	SI No	Description	No	L	B	D	CF	Quantity
Remark	8 Unforseen							
Lump-Sum Total							Rs 1626.00	
							TOTAL Rs 6285000.00	
							Rounded Total Rs 62,85,000	
Rupees Sixty Two Lakh Eighty Five Thousand Only								

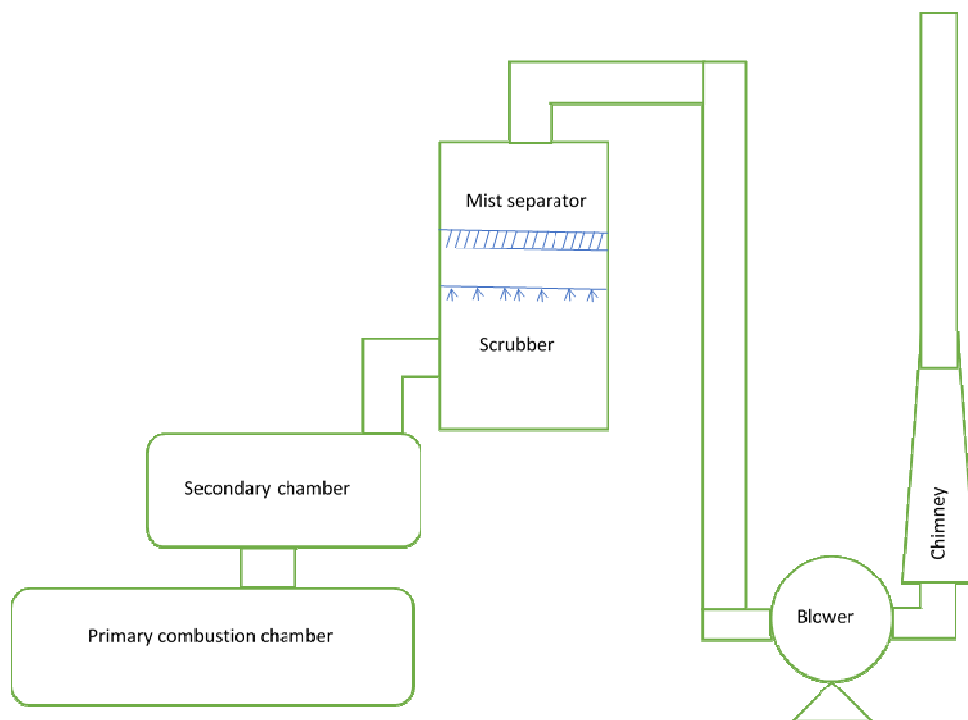
(Cost Index Applied for this estimate is 50.98%)

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