

Office of the Chief Engineer LSGDconstruction of a Bio gas plant (50 kg/day) MODEL ESTIMATE

## Detailed Estimate

(Cost Index Applied for this estimate is 35.59%)

Sl No	Description	No	L	B	D	CF	Quantity	Remark	
<b>1 1 (A) INLET TANK ( circular size 60 cm dio )</b>									
1	2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil								
	1. IN LET TANK								
	circular pit for foundation (3.14/4*D*D*h )	0.785	1.250	1.25*.4			0.491		
	Total Quantity							0.491 cum	
	Total Deducted Quantity							0.000 cum	
	Net Total Quantity							0.491 cum	
	Say0.491 cum @ Rs 277.58 / cum							<b>Rs 136.29</b>	
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)								
	1. IN LET TANK								
	circular pit for foundation (3.14/4*D*D*h )	0.785	1.250	1.250	0.100		0.123		
	Total Quantity							0.123 cum	
	Total Deducted Quantity							0.000 cum	
	Net Total Quantity							0.123 cum	
	Say0.123 cum @ Rs 6370.44 / cum							<b>Rs 783.56</b>	
3	60.7.4 DR PACKING FOR APRONS - Rough stone dry packing for apron with good quality blasted rubble including packing to compactness to lines levels, cost and conveyance of all materials labour charges etc. complete as per direction of Departmental officers at site								
	Foundation (3.14/4*D*D*h )	0.785	1.150	1.150	0.300		0.312		

		Total Quantity						0.312 cum	
		Total Deducted Quantity						0.000 cum	
		Net Total Quantity						0.312 cum	
		Say 0.312 cum @ Rs 3388.97 / cum						<b>Rs 1057.36</b>	
4	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)								
	B a s e m e n t ( 3 . 1 4 / 4 * D * D * h	0.785	1.150	1.150	0.450		0.468		
		Total Quantity						0.468 cum	
		Total Deducted Quantity						0.000 cum	
		Net Total Quantity						0.468 cum	
		Say 0.468 cum @ Rs 6734.90 / cum						<b>Rs 3151.93</b>	
5	6.2.1 Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:4 (1 cement : 4 coarse sand)								
	3 . 1 4 * R * R * h - 3 . 1 4 * r * r * h	3.14	0.375	0.375	0.300		0.133		
		Deduction							
	3.14*r*r*h	3.14	0.300	0.300	0.300		-0.084		
		Total Quantity						0.133 cum	
		Total Deducted Quantity						-0.084 cum	
		Net Total Quantity						0.049 cum	
		Say 0.049 cum @ Rs 6046.47 / cum						<b>Rs 296.28</b>	
6	13.1.1 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)								
	Inner floor portion (3.14*r*r )	3.14	0.300	0.300			0.283		
	Inner wall (2*3.14*r*h	2*3.14	0.300	0.300			0.566		
	Outer wall (2*3.14*R*h )	2*3.14	0.400	0.300			0.754		
	Top face 3.14/4 ( D*D - d*d )	0.785	0.280	0.300			0.066		
		Total Quantity						1.669 sqm	
		Total Deducted Quantity						0.000 sqm	

	Net Total Quantity							1.669 sqm	
	Say 1.669 sqm @ Rs 293.61 / sqm							<b>Rs 490.04</b>	
7	13.33.1 Pointing on stone work with cement mortar 1:3 ( 1 cement : 3 fine sand):Flush/ Ruled pointing								
	$(2 * 3.14 * r * h = 2 * 3.14 * 0.575 * 0.40)$	2*3.14	0.575	0.400			1.445		
	Total Quantity							1.445 sqm	
	Total Deducted Quantity							0.000 sqm	
	Net Total Quantity							1.445 sqm	
	Say 1.445 sqm @ Rs 314.08 / sqm							<b>Rs 453.85</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark	
<b>2 2 Lid with Locking facility</b>									
Lump-Sum Total							<b>Rs 500.00</b>		
	SI No	Description	No	L	B	D	CF	Quantity	
Remark	<b>3 3 ( B ) DIGSTER ( inner dia 2.90 mm)</b>								
1	2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil								
	Above dome = $3.14/4 * d * d * h$	0.875	3.900	3.900	2.050		27.283		
	bellow dome = $3.14 * h * h (3 * R - h)$	3.14	0.650	0.650	5.350		7.098		
	projection all round = $3.14 * h (R * R - r * r)$ $= 3.14 * 0.20 (2.30 * 2.30 - 2.00 * 2.00) - r$	1	3.140	0.200	1.290		0.811		
	Total Quantity							35.192 cum	
	Total Deducted Quantity							0.000 cum	
	Net Total Quantity							35.192 cum	
	Say 35.192 cum @ Rs 277.58 / cum							<b>Rs 9768.60</b>	
2	2.26.1 Extra for every additional lift 1.5 m or part there of in excavation / banking excavated or stacked materials.All kinds of soil								
	Above dome = $3.14/4 * d * d * h$	0.875	3.900	3.900	0.550		7.320		

	bellow dome = $3.14 * h * h (3 * R - h)$	3.14	0.650	0.650	5.350		7.098	
	Total Quantity						14.418 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						14.418 cum	
	Say 14.418 cum @ Rs 99.43 / cum						<b>Rs 1433.58</b>	
3	4.1.6 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 ( 1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)							
	dome outer v = $3.14 * h * h (3R$	3.14	0.650	0.650	5.350		7.098	
	projection	1	3.140	0.200	1.290		0.811	
	Deduction							
	dome inner V= $3.14 * h * h (3 * R - h$ $) = 3.14 * 0.55 * 0.55 (3 * 1.$ $9 - 0.65) -$	3.14	0.550	0.550	5.150		-4.891	
	opening	1	0.750	0.100	0.100		-0.007	
	Total Quantity						7.909 cum	
	Total Deducted Quantity						-4.898 cum	
	Net Total Quantity						3.011 cum	
	Say 3.011 cum @ Rs 6740.86 / cum						<b>Rs 20296.73</b>	
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)							
	dome outer v = $3.14 * h * h (3R$	3.14	0.550	0.550	5.150		4.892	
	tank lintel opening portion	1	1.000	0.100	0.200		0.020	
	projection	1	3.140	0.200	1.290		0.811	
	Deduction							
	dome inner V= $3.14 * h * h (3 * R - h$ $) = 3.14 * 0.55 * 0.55 (3 * 1.$ $9 - 0.65) -$	3.14	0.450	0.450	4.950		-3.147	

	opening	1	0.750	0.100	0.100		-0.007	
	Total Quantity						5.723 cum	
	Total Deducted Quantity						-3.154 cum	
	Net Total Quantity						2.569 cum	
	Say 2.569 cum @ Rs 8492.63 / cum						<b>Rs 21817.57</b>	
5	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 of grade Fe-500D or more							
	As per item No.4 = 2.580 cu.m	2.580				70.0	180.600	
	As per item No.9 = 21.871 cu.m	21.871				5.0	109.355	
	Total Quantity						289.955 kilogram	
	Total Deducted Quantity						0.000 kilogram	
	Net Total Quantity						289.955 kilogram	
	Say 289.955 kilogram @ Rs 91.89 / kilogram						<b>Rs 26643.96</b>	
6	5.9.5 Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders, bressumers and cantilevers							
	Surface Area of projection sides ( $2*3.14*r*h$ )	2*3.14	1.150	0.200			1.445	
	Total Quantity						1.445 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						1.445 sqm	
	Say 1.445 sqm @ Rs 607.44 / sqm						<b>Rs 877.75</b>	
7	6.9 Brick work in plain arches in superstructure above plinth level and upto floor five level including centering and shuttering complete for span up to 6 metres with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in cement mortar 1:3 (1 cement: 3 coarse sand).							
	Hemi spear outer v o l u m e = $\frac{2}{3}*3.14*r*r*r = \frac{2}{3}*3.14*1.90*1.90*1.90$	0.67*3.14	1.550	1.550	1.550		7.835	
	Deduction							

	Hemi spear inner v o l u m e = 2/3*3.14*1.80*1.80*1. 80	0.67*3.14	1.450	1.450	1.450		-6.413		
	Opening	1	0.750	0.100	1.000		-0.075		
	Total Quantity						7.835 cum		
	Total Deducted Quantity						-6.488 cum		
	Net Total Quantity						1.347 cum		
	Say 1.347 cum @ Rs 13592.24 / cum						<b>Rs 18308.75</b>		
8	13.6.1 20 mm cement plaster of mix:1:4 ( 1 cement : 4 coarse sand)								
	ferro cement lining over brick work/ Area of hemi speare cuved surface Area = 2*3.14*r*r	2*3.14	1.550	1.550			15.088		
	Deduction								
	Opening portion	1	0.750	1.000			-0.750		
	Total Quantity						15.088 sqm		
	Total Deducted Quantity						-0.750 sqm		
	Net Total Quantity						14.338 sqm		
	Say 14.338 sqm @ Rs 417.76 / sqm						<b>Rs 5989.84</b>		
9	13.1.1 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)								
	ferro cement lining over brick work/ Area of hemi speare cuved surface Area = 2*3.14*r*r	2*3.14	1.550	1.550			15.088		
	Deduction								
	Opening portion	1	0.750	1.000			-0.750		
	Total Quantity						15.088 sqm		
	Total Deducted Quantity						-0.750 sqm		
	Net Total Quantity						14.338 sqm		
	Say 14.338 sqm @ Rs 293.61 / sqm						<b>Rs 4209.78</b>		
10	13.7.1 12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 ( 1 cement : 3 fine sand)								

	spiracle surface Area f l o o r b a s e (3.14*1.80*1.80+0.45* 0.45)	1	3.140	3.443			10.812	
	Inside of dome (2*3.14*r*r )	2*3.14	1.450	1.450			13.204	
	Deduction							
	Opening	1	0.750	1.000			-0.750	
	Total Quantity						24.016 sqm	
	Total Deducted Quantity						-0.750 sqm	
	Net Total Quantity						23.266 sqm	
	Say 23.266 sqm @ Rs 375.04 / sqm						<b>Rs 8725.68</b>	
11	50.18.9.10.1 Providing and fixing PVC pipes including jointing of pipes with one step pvc solvent cement, trenching , refilling & testing of joints complete as per direction of Engineer in Charge. 150 mm dia 6 Kgf/cm2							
	In let pipe	1	3.250				3.250	
	Total Quantity						3.250 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						3.250 metre	
	Say 3.250 metre @ Rs 844.12 / metre						<b>Rs 2743.39</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>4 4 ( c ) OUT LET POCKET &amp; TANK (inner dimension 2.60x1.4 mts )</b>								
1	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. All kinds of soil							
	Out let Tank	1	3.000	1.800	0.550		2.970	
	Out let pocket	1	0.800	0.800	1.150		0.736	
	Total Quantity						3.706 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						3.706 cum	
	Say 3.706 cum @ Rs 200.07 / cum						<b>Rs 741.46</b>	
2	5.1.3 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:1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)							

	Cover slab	1	3.000	1.800	0.075		0.405	
	Total Quantity						0.405 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						0.405 cum	
	Say 0.405 cum @ Rs 8028.36 / cum						<b>Rs 3251.49</b>	
3	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 to 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)							
	Out let pocket - floor	1	1.300	0.800	0.100		0.104	
	Out let Tank - floor	1	2.600	1.400	0.100		0.364	
	Deduction							
	pocket	1	1.200	1.000	0.100		-0.120	
	Total Quantity						0.468 cum	
	Total Deducted Quantity						-0.120 cum	
	Net Total Quantity						0.348 cum	
	Say 0.348 cum @ Rs 10239.65 / cum						<b>Rs 3563.40</b>	
4	5.9.1 Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete							
	Covering slab Length wise side	2	3.000	0.100			0.600	
	Covering slab width wise side	2	1.800	0.100			0.360	
	Total Quantity						0.960 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						0.960 sqm	
	Say 0.960 sqm @ Rs 313.45 / sqm						<b>Rs 300.91</b>	
5	60.7.4 DR PACKING FOR APRONS - Rough stone dry packing for apron with good quality blasted rubble including packing to compactness to lines levels, cost and conveyance of all materials labour charges etc. complete as per direction of Departmental officers at site							
	whole Area	1	4.000	1.350	0.950		5.130	
	Deduction							
	Pocket	1	1.200	1.000	0.950		-1.140	



						Total Quantity	5.130 cum	
						Total Deducted Quantity	-1.140 cum	
						Net Total Quantity	3.990 cum	
						Say3.990 cum @ Rs 3388.97 / cum	<b>Rs 13521.99</b>	
6	6.2.1	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:4 (1 cement : 4 coarse sand)						
	Out let pocket	1	2.800	0.200	0.950		0.532	
	Out let taNK	1	8.800	0.200	0.650		1.144	
						Total Quantity	1.676 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	1.676 cum	
						Say1.676 cum @ Rs 6046.47 / cum	<b>Rs 10133.88</b>	
7	13.7.1	12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 ( 1 cement : 3 fine sand)						
	Floor inner	1	2.600	1.400			3.640	
	Inside of out let pocket wall	1	2.400	0.950			2.280	
	Inside of out let tank wall	1	8.000	0.650			5.200	
						Total Quantity	11.120 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	11.120 sqm	
						Say11.120 sqm @ Rs 375.04 / sqm	<b>Rs 4170.44</b>	
8	13.1.1	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)						
	Inside of outlet wall - Tank top 1	8	0.650				5.200	
						Total Quantity	5.200 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	5.200 sqm	
						Say5.200 sqm @ Rs 293.61 / sqm	<b>Rs 1526.77</b>	
9	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						

	Top of dome	0.875	3.300	3.300	2.050		19.534		
	Dome bottom	3.14	0.650	0.650	5.350		7.098		
	Deduction								
	Dome bellow	3.14	0.650	0.650	5.350		-7.097		
	Top brick portion	0.67	3.140	1.900	1.900		-7.594		
	Total Quantity							26.632 cum	
	Total Deducted Quantity							-14.691 cum	
	Net Total Quantity							11.941 cum	
	Say 11.941 cum @ Rs 491.53 / cum							<b>Rs 5869.36</b>	
Sl No	Description	No	L	B	D	CF	Quantity	Remark	
<b>5 5.D.PREFILTER ( inner dimension 2.00x1.00 mts)</b>									
1	2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil								
		1	1.400	2.400	1.200		4.032		
	Total Quantity							4.032 cum	
	Total Deducted Quantity							0.000 cum	
	Net Total Quantity							4.032 cum	
	Say 4.032 cum @ Rs 277.58 / cum							<b>Rs 1119.20</b>	
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)								
	leveling ( cement concrete )	1	1.400	2.400	0.100		0.336		
	Total Quantity							0.336 cum	
	Total Deducted Quantity							0.000 cum	
	Net Total Quantity							0.336 cum	
	Say 0.336 cum @ Rs 6370.44 / cum							<b>Rs 2140.47</b>	
3	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)								
	R.C.C. for foundation	1	1.400	2.400	0.100		0.336		

						Total Quantity	0.336 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	0.336 cum	
						Say0.336 cum @ Rs 8492.63 / cum		<b>Rs 2853.52</b>
4	5.1.3	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:1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)						
	Cover slab	1	1.400	2.400	0.075		0.252	
	partition wall	3	0.600	0.050	0.500		0.045	
						Total Quantity	0.297 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	0.297 cum	
						Say0.297 cum @ Rs 8028.36 / cum		<b>Rs 2384.42</b>
5	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 of grade Fe-500D or more						
	As per item Nos.3 & 4 = 0.336 + 0.297	1	0.633			70.0	44.310	
						Total Quantity	44.310 kilogram	
						Total Deducted Quantity	0.000 kilogram	
						Net Total Quantity	44.310 kilogram	
						Say44.310 kilogram @ Rs 91.89 / kilogram		<b>Rs 4071.65</b>
6	6.2.1	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:4 (1 cement : 4 coarse sand)						
	Allround	1	7.600	0.200	1.000		1.520	
						Total Quantity	1.520 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	1.520 cum	
						Say1.520 cum @ Rs 6046.47 / cum		<b>Rs 9190.63</b>
7	13.7.1	12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 ( 1 cement : 3 fine sand)						
	floor	1	1.000	2.000			2.000	
	inner walls	1	6.000	1.000			6.000	
						Total Quantity	8.000 sqm	

	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						8.000 sqm	
	Say 8.000 sqm @ Rs 375.04 / sqm						<b>Rs 3000.32</b>	
8	13.1.1 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)							
	Out let walls	1	7.600	1.000			7.600	
	Top of cover slab	1	1.400	2.400			3.360	
	Total Quantity						10.960 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						10.960 sqm	
	Say 10.960 sqm @ Rs 293.61 / sqm						<b>Rs 3217.97</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>6 6.E.SEPTICK TANK &amp; SOAK PIT( inner dimension 1.80x0.60mts &amp; 75 mm dia)</b>								
1	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil							
	Septic Tank	1	2.200	1.000	1.100		2.420	
	Soak pit (circular shape )	0.785	0.750	0.750	1.150		0.508	
	Total Quantity						2.928 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						2.928 cum	
	Say 2.928 cum @ Rs 200.07 / cum						<b>Rs 585.80</b>	
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)							
	Septic Tank bed leveling	1	2.200	1.000	0.100		0.220	
	Soak pit - do -	0.785	0.750	0.750	0.100		0.045	
	Total Quantity						0.265 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						0.265 cum	
	Say 0.265 cum @ Rs 6370.44 / cum						<b>Rs 1688.17</b>	

3	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)							
	Septic tank top covering slab	1	2.200	1.000	0.100		0.220	
	Total Quantity						0.220 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						0.220 cum	
	Say0.220 cum @ Rs 8492.63 / cum						<b>Rs 1868.38</b>	
4	5.1.3 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:1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)							
	wearing coat on the top of the floor	1	1.800	0.600	0.050		0.054	
	Total Quantity						0.054 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						0.054 cum	
	Say0.054 cum @ Rs 8028.36 / cum						<b>Rs 433.53</b>	
5	5.9.21 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders, bressumers and cantilevers with water proofply 12 mm thick.							
	foundation sides	1	6.400	0.100			0.640	
	Total Quantity						0.640 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						0.640 sqm	
	Say0.640 sqm @ Rs 705.98 / sqm						<b>Rs 451.83</b>	
6	5.15 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in lintels, beams and bressumers including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but excluding the cost of reinforcement with, 1:1.5:3 (1 cement : 1.5 coarse sand (Zone - III) : 3 graded stone aggregate 20 mm nominal size)							
	partition wall1	1	0.500	0.050	0.500		0.013	
	covering slab for septic tank	1	2.200	1.000	0.100		0.220	

	covering slab for soak pit	0.785	0.750	0.750	0.100		0.045	
		Total Quantity					0.278 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					0.278 cum	
		Say 0.278 cum @ Rs 12490.30 / cum					<b>Rs 3472.30</b>	
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 of grade Fe-500D or more							
	As per item No. 3 & 4 = 0.22 + 0.054 = 0.274 cu.m	1	0.274			80.0	21.920	
		Total Quantity					21.920 kilogram	
		Total Deducted Quantity					0.000 kilogram	
		Net Total Quantity					21.920 kilogram	
		Say 21.920 kilogram @ Rs 91.89 / kilogram					<b>Rs 2014.23</b>	
8	6.1.2 Brick work with common burnt clay F.P.S (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)							
	Septic tank	1	5.600	0.200	0.900		1.008	
	Soak pit = $3.14 * h (R * R - r * r) = 3.14 * 0.90 (0.80 * 0.80 - 0.60 * 0.60)$	1	2.826	0.280			0.792	
		Total Quantity					1.800 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					1.800 cum	
		Say 1.800 cum @ Rs 6775.21 / cum					<b>Rs 12195.38</b>	
9	13.9.1 Cement plaster 1:3 ( 1 cement : 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster							
	Septic tank floor	1	1.800	0.600			1.080	
	Side wall inner	1	4.800	0.900			4.320	
		Total Quantity					5.400 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					5.400 sqm	

	Say 5.400 sqm @ Rs 385.25 / sqm						<b>Rs 2080.35</b>	
10	13.1.1 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)							
	Side wall outer	1	4.800	0.900			4.320	
	Total Quantity						4.320 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						4.320 sqm	
	Say 4.320 sqm @ Rs 293.61 / sqm						<b>Rs 1268.40</b>	
11	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 kg/cm <sup>2</sup>							
	out let pipe	1	8.000				8.000	
	Total Quantity						8.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						8.000 metre	
	Say 8.000 metre @ Rs 629.02 / metre						<b>Rs 5032.16</b>	
<b>Amount reserved for GST payments</b>						<b>Rs 27580.00</b>		
<b>Total</b>						<b>Rs 257413.35</b>		
Lumpsum for round off						<b>0.0</b>		
<b>TOTAL</b>						<b>Rs 257413.35</b>		
<b>Rounded Total</b>						<b>Rs 257413.35</b>		
Rupees Two Lakh Fifty Seven Thousand Four Hundred and Thirteen Only								

(Cost Index Applied for this estimate is 35.59%)

