QUANTITY CALCULATIONS

S.NO.	DESCRIPTION	no.	L	B	H	E&S	
1	**Dismantling brick on edge flooring**		3622	5		18110.00	sq.m
2	**Centring &Shuttering for flat surface**						
	Collection tank	1	3.7	3.7		13.69	
	Screening tank	1	3.4	2.7		9.18	
	Screening tank(pump)	1	2.45	2.7		6.62	
	Manhole(1.2m to 2m)	27	1.5	0.9		36.45	
	Manhole(2m to 3m)	47	1.5	0.9		63.45	
	Manhole(3m to 5m)	63	1.5	0.9		85.05	
					TOTAL	**214.44**	sq.m
			P				
3	**Centring &Shuttering for vertical surface**						
	Collection tank(inner)	1	12		8.8	105.60	
	Collection tank(outer)	1	16.4		9.4	154.16	
	Screening tank(inner)	1	8.4		6.3	52.92	
	Screening tank(inlet)	1	7.1		6.3	44.73	
	Inlet+screening tank	1	14.1		6.75	95.18	
	Manhole(1.2m to 2m) base slab	27	7.72		0.2	41.69	
	Manhole(1.2m to 2m) top slab	27	6.64		0.175	31.37	
	Manhole(2m to 3m) base slab	47	7.72		0.2	72.57	
	Manhole(2m to 3m) top slab	47	6.64		0.175	54.61	
	Manhole(3m to 5m) base slab	63	7.72		0.2	97.27	
	Manhole(3m to 5m) top slab	63	6.64		0.175	73.21	
	Cleanouts	23	1.2		0.125	3.45	
					total	826.76	sq.m
4	**P.C.C. 1:4:8 with stone**						
	room		16.92	1	0.23	3.89	
	Manhole					72.00	
	SW line		3622	1	0.1	362.20	
	Collection tank		6	6	0.15	5.40	
	Screening tank		3.25		3	9.75	
	Screening tank(inlet)		3.3	3	0.15	1.49	
	benching					77.00	
	beam(facultative,maturation tanks)					50.00	
					TOTAL	**581.73**	cum
5	**Cement Concrete 1:2:4**						
						137.50	cum
6	**Extra for mechanical mixer used by the contractor at his own cost**						
	P.C.C. 1:4:8 with stone(as from 4)					581.73	
	Manhole(as from 5)					137.50	
	P.C.C. 1:4:8 with stone(as per 26)					30.00	
					TOTAL	**782.00**	cum
7	**Extra for vibrator used by the contractor at his own cost**						
	Manhole					137.50	
	M30					140.58	
					TOTAL	**278.08**	cum
8	**First class burnt brick work laid in cement sand mortar 1:4 in foundation and plinth.(upto 1.5m)**						
					total	664.72	
	Manhole(1.2m to 2m)	27	5.72	0.23	1.5	**53.28**	
		27	3.09	0.345	0.23	**6.62**	
	Manhole(2m to 3m)	47	5.72	0.23	1.5	**92.75**	
		47	3.09	0.345	1	**50.10**	
	Manhole(3m to 5m)	63	5.72	0.23	1.5	**124.32**	
		63	3.09	0.345	1.5	**100.74**	
		63	7.84	0.46	1.18	**268.10**	
	Total (for sr. no. 8 & 9)					**695.92**	**cum**

9	**First class burnt brick work laid in cement sand mortar 1:4 in first storey upto 4m above plinth level.**						
					total	**31.20**	cum
10	**12.5mm th. Inside Cement plaster 1:2 (Manhole)**						
	Manhole					1626.89	
	Cleanouts					69.12	
					TOTAL	**1696.01**	sq.m
11	**Cement rendering on plaster 1mm thick**						
	Manhole					1626.89	
	Cleanouts					69.12	
					TOTAL	**1696.01**	sq.m
12	**Dismantling of bituminous courses of flexible pavements by manual means & disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately as per technical clauses 202 of MORT & H specifications.**						
					total	**256.00**	cum
13	**For all classes of soil except rocky (upto 3m)**						
	SW line					7034.89	
	Manhole					1930.60	
	facultative tank					3906.00	
	1st maturation					826.00	
	2nd maturation tank					826.00	
	3rd maturation tank					826.00	
	anearobic tank					300.00	
	Collection tank					162.00	
	Existing wastewater ponds at STP site(Lumpsum)	see page 7 - 11				4581.11	
					total	**20392.60**	cum
14	**For depth exceeding 3 metres but not exceeds 4.5m**						
	SW line					926.54	
	Manhole					378.93	
	Collection tank					54.00	
					total	**1359.47**	
15	**For depth exceeding 4.5 metres but not exceeds 6m**						
	SW line					113.26	
	Manhole					38.53	
	Collection tank					54.00	
					total	**205.79**	
16	**For depth exceeding 6 metres but not exceeds 7.5m**						
	Manhole					30.53	
	Collection tank					54.00	
					TOTAL	**84.53**	
17	**For depth exceeding 7.5 metres but not exceeds 9m**						
	Collection tank					54.00	
					TOTAL	**54.00**	
18	**SW PIPE (150mm) included all items**						
	Total SW Line length					**3322.00**	
	Manhole(Deduction)					220.80	
						3101.20	
19	**R.C.C. Manhole cover 560mm i/dextra heavy duty**						
						147.00	
20	**cold twisted deformed Fe415 grade as per IS 1786-1985**	see page 5 & 6				**120.42**	qtl
21	**M-30**						
	Manhole slab					65.00	
	Slab (Collection ,screening & inlet tanks)					75.58	

					140.58	
22	**Room**					
			17.154	10.59	**181.74**	sq.ft
23	**Cleanouts**					
		23				
24	**PVC 100 dia connected with pump**					
					28.00	
25	**Pump (1 HP)**					
					3.00	
26	**Boundry Wall(PCC 1:4:8) length =400 m. approx.**					
			400	0.5	**30.00**	cum
				0.15		
27	**Boundry Wall(1:4 First Brick work in foundation and plinth)**					
			400	1.15	**105.80**	cum
				0.23		
28	**Boundary wall (First class burnt brick work laid in cement sand mortar 1:4 in first storey upto 4m above plinth level)**					
			400	1.5	**138.00**	cum
				0.23		
29	**Excavation(Boundry Wall upto 3 m.)**					
			400	1.12	**224.00**	cum
				0.5		
30	**Generator(5KW)**					
		1				
31	**Roads, plantation, embience etc inside STP site**					
					Lumpsum	
32	**Providing M.S. foot rests made of 20x20 mm square bar including fixing in manholes with 20x20x10 cm cement concrete blocks 1:2:4 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design.(137 manholes plus screen chambers & collection tanks(Lumpsum))**				**2400.00**	
33	**115 mm thick brick on edge lining in herring bone bond/zig-zag or other specified pattern in 1:3 cement sand mortar over 10mm thick cement plaster 1:3 over 12.50 mm thick cement plaster in 1:5 on sub grade.**					
	On side slopes.				2205.56	sq.m
	In bed				3312.37	sq.m