Office of the Chief Engineer LSGD

Construction of a 2000 kgs / Day Bio Gas Plant MODAL ESTIMATE

Detailed Estimate

(Cost Index Applied for this estimate is 35.59%)

SI No	Description	No	L	В	D	CF	Quantity	Remark
			1 Bioga	as plant	1			
1	2.31 Clearing jungle includi to 30 cm measured at m outside the peripher	a height of	1 m above g					-
	Site clearance	1	25.000	10.000	4 7		250.000	
	l l	No	1/20		Tota	al Quantity	250.000 s	qm
		B-B	9 4	To	otal Deducte	d Quantity	0.000 sqn	ı
		40	1 2	TM	Net Tota	al Quantity	250.000 s	qm
	-	46	Sa	y250.000 s	qm @ Rs 13	3.82 / sqm	Rs 34	155.00
	Earth work in excava (exceeding 30 cm in cearth, lead up to 50 m	lepth, 1.5 m	in width as	well as 10	sqm on pla	n) including	disposal of	excavate
	Digester - above	0.785	8.400	8.400	5.900		326.799	3.14xhxh (3xR-h)
	Digester - bellow	3.14	1.950	1.950	(3*4.20 - 1.95)		127.160	
	Set tiling Tank	1	4.900	4.000	2.000		39.200	
	Oil squeezing TANK	1	4.000	4.000	2.000		32.000	
	Displacement Tank	1	6.100	4.600	3.000		84.180	
	Filter Tank	1	5.400	3.400	3.500		64.261	
					Tota	al Quantity	673.600 c	um
				To	otal Deducte	d Quantity	0.000 cum	1
					Net Tota	al Quantity	673.600 c	um
			Say	673.600 cu	m @ Rs 387	7.78 / cum	Rs 26′	1208.61
3	2.26.2 Extra for every additi materials.Ordinary or		5 m or part	there of in	excavation	/ banking	excavated	or stacke
			Second	lift - 1.50 m	n - 3.0 m			
	Digester - above	0.785	8.400	8.400	4.400		243.715	

	Digester - bellow	3.14	1.950	1.950	(3*4.20 - 1.95)	127.160	
	Set tiling Tank	1	4.900	3.400	0.300	4.998	
	Oil squeezing Tank	1	4.000	4.000	0.500	8.000	
	Displacement Tank	1	6.100	4.600	1.500	42.090	
	Filter Tank	1	5.400	3.400	2.000	36.720	
		~	Third I	ift - 3.0 m -	4.50 m		
	Digester - above	0.785	8.400	8.400	2.900	160.630	
	Digester bellow	3.14	1.950	1.950	(3*4.20 - 1.95)	127.160	
	Filter Tank	1	5.400	3.400	0.500	9.180	
			Forth I	ift 4.50 m -	6.0 m)		
	Digester - above	0.785	8.400	8.400	1.400	77.546	
	Digester bellow	3.14	1.950	1.950	(3*4.20 - 1.95)	127.160	
		151	100		Total Quanti	ty 964.359 cun	n
				To	otal Deducted Quanti	ty 0.000 cum	
			No Basis	a anto	Net Total Quanti	ty 964.359 cun	n
			Say	964.359 cu	m @ Rs 178.33 / cun	n Rs 1719	74.14
4	60.2.2 Bailing out water Usiconveyance to site an	•	•	•			٠,
	5 H.P pump using	1	25.000		8.000	200.000	
					Total Quanti	ty 200.000 hou	ır
				To	otal Deducted Quanti	ty 0.000 hour	
					Net Total Quanti	ty 200.000 hou	ır
			Say	200.000 ho	ur @ Rs 354.91 / hou	r Rs 7098	32.00
5	5.9.1 Centering and shuttering columns, etc for mass		strutting, et	c. and remo	oval of form for:Foun	dations, footings,	bases of
	Plant bottom	1*3.14	9.500		0.300	8.949	
	Oil squeezing tank	1	13.200		0.250	3.300	
	Settling tank bottom	1	12.400		0.250	3.100	
	Displacement tank	1	18.600		0.250	4.650	
	Filter tank	1	14.800		0.250	3.700	

					Tota	al Quantity	23.699 sc	lm
				To	otal Deducte	d Quantity	0.000 sqn	n
					Net Tota	al Quantity	23.699 sc	lm
			Sa	ıy23.699 sq	m @ Rs 313	3.45 / sqm	Rs 7	428.45
6	60.7.1 DRY RUBBLE MASOI blasted rubble including labour charges etc. cor	g packing to	compactne	ss to lines	and levels co	ost and con		-
	Displacement tank	1	5.400	3.900	0.600		12.636	volum
	Settling tank	1	4.200	2.700	0.600	7	6.804	
	Squeezing tank	100	3.300	3.300	0.600		6.534	
	Filter tank		4.700	2.700	0.600	9 /	7.614	
	riilei talik	(//1	4.700	deduction	0.800	21	7.014	
	Digester inner volume	3.14	1.350	1.350	(3*3.60 - 1.35)		-54.079	
					Tota	al Quantity	160.748 c	um
				To	otal Deducte	d Quantity	-54.079 c	um
					Net Tota	al Quantity	106.669 d	um
			Say1	06.669 cun	n @ Rs 3263	3.80 / cum	Rs 34	8146.28
7	4.1.8 Providing and laying in shuttering - All work un nominal size) Outer volume	•		-	•	_		•
	Displacement tank	1	5.400	3.900	0.150		3.159	
	Settling tank	1	4.200	2.700	0.150		1.701	
		1	3.300	3.300	0.150		1.634	
	Squeezing tank	•			i .	I	1	
	Squeezing tank Filter tank	1	4.700	2.700	0.150		1.904	
			4.700 1.200	2.700 1.200	0.150 0.100		1.904 0.144	

				deduction								
	Digester inner volume	3.14	1.200	1.200	(3*3.45 - 1.20)		-41.372					
					Tota	al Quantity	63.937 cu	m				
				To	otal Deducte	d Quantity	-41.372 cu	um				
					Net Tota	al Quantity	22.565 cu	m				
		~	Say	22.565 cum	n @ Rs 6370).44 / cum	Rs 143	3748.98				
8	Say22.565 cum @ Rs 6370.44 / cum Rs 143748.98 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 coars sand :3 graded stone aggregate 20 mm nominal size											
	Outer volume	3.14	1.200	1.200	(3*3.45 - 1.20)	3	41.373	outer volume - inner volume				
	Displacement tank	1	5.200	3.900	0.120	9 1	2.434					
	Settling tank - bottom	1	4.200	2.700	0.120	2/	1.361					
	Squeezing tank - bottom	1	3.300	3.300	0.120		1.307					
	Filter tank	1	4.700	2.700	0.120		1.523					
	Displacement tank	1	15.600	0.100	3.000		4.680					
	Intermediate belt and top belt for settling tank	2	11.800	0.200	0.100		0.472					
	Top belt for partition wall	3	2.000	0.200	0.100		0.120					
	Intermediate belt and top belt for squeezer	2	11.200	0.200	0.100		0.448					
	Intermediate belt and top belt for Filter tank	2	12.800	0.200	0.100		0.512					
	belt for partition wall	3*2	2.000	0.200	0.100		0.240					
	Cover slab settlement tank	1	3.900	2.400	0.100		0.936					
	Displacement tank	1	5.100	3.600	0.100		1.836					
	Filter tank slab	1	4.400	2.400	0.100		1.056					

	Ring portion	3.14	9.300	0.300	0.200		1.753	
				deduction				
	Digester inner volume	3.14	1.000	1.000	(3*3.25 - 1.00)		-27.475	
					Tota	al Quantity	60.051 cu	m
				Tc	tal Deducte	d Quantity	-27.475 c	um
		_ <			Net Tota	al Quantity	32.576 cu	m
			Say	32.576 cum	@ Rs 8492	2.63 / cum	Rs 270	6655.91
9	5.5 Reinforced cement con slope more than 15 u reinforcement with 1:1 nominal size)	p to floor f	ive level ex	cluding the	cost of ce	ntering, sh	uttering, fir	nishing and
	Dome	2/3	3.140	3.550	3.550	3.55	93.654	2/3x3.14 x R x R x R
	Digester vertical wall	3.14	8.900	0.200	3.400	7 1	19.004	
		101	AV.	Deduction	1-15-76	2		
	Dome	2/3	3.140	3.350	3.350	3.35	-78.699	2/3x3.14 x
					Tota	al Quantity	112.658 c	um
				To	tal Deducte	d Quantity	-78.699 c	um
					Net Tota	al Quantity	33.959 cu	m
			Say3	3.959 cum	@ Rs 11321	.25 / cum	Rs 384	4458.33
10	5.9.9 Centering and shuttering span	g including	strutting, et	c. and remo	val of form	for:Arches,	domes, vau	lts up to 6m
		3.14	26.950				84.623	
					Tota	al Quantity	84.623 sq	m
				To	tal Deducte	d Quantity	0.000 sqn	า
					Net Tota	al Quantity	84.623 sq	m
			Say	84.623 sqm	@ Rs 1885	5.05 / sqm	Rs 159	9518.59
11	5.9.3 Centering and shutter landings, balconies ar	_	•	, etc. and r	emoval of	form for:Su	spended flo	oors, roofs
	Settling tank cover slab	1	12.600	0.100			1.260	

	Displacement tank cover slab	1	17.400	0.100			1.740	
	Filter tank	1	13.600	0.100			1.360	
					Tota	al Quantity	4.360 sqm	1
				To	tal Deducte	d Quantity	0.000 sqm	1
					Net Tota	al Quantity	4.360 sqm	1
		_ <	S	ay4.360 sqı	m @ Rs 762	2.57 / sqm	Rs 33	324.81
12	5.21 Extra for providing and thick weighing 3.64 kg excluding cost of hange of the providing and fixing chicken mesh for	per sqm fo						
	single layer inside of oil squeezing		12.000		3.300		39.000	
	6				Tota	al Quantity	39.600 sq	m
		181		To	tal Deducte	d Quantity	0.000 sqm	ı
		400			Net Tota	al Quantity	39.600 sq	m
			Sa	y39.600 sqr	n @ Rs 488	3.48 / sqm	Rs 19	343.81
13	5.22.6 Steel reinforcement fo binding all complete u		ork including	straighten	ing, cutting	, bending,	placing in p	osition and
13	Steel reinforcement fo		ork including	straighten	ing, cutting	, bending,	placing in p	osition and
13	Steel reinforcement for binding all complete under the As per item No.8 =	pto plinth le	ork including	straighten	ing, cutting	, bending, d bars of g	placing in p	osition and
13	Steel reinforcement for binding all complete under the steel As per item No.8 = 32.576 cum As per item No.9 =	pto plinth le	ork including evelThermo 32.576	straighten	ing, cutting cally Treate	, bending, d bars of g 80.0	placing in p rade Fe-500 2606.080	osition and DD or more
13	Steel reinforcement for binding all complete under the steel As per item No.8 = 32.576 cum As per item No.9 =	pto plinth le	ork including evelThermo 32.576	g straighten - Mechanio	ing, cutting cally Treate	, bending, d bars of g 80.0 80.0	placing in p rade Fe-500 2606.080 2716.720	osition and DD or more kilogram
13	Steel reinforcement for binding all complete under the steel As per item No.8 = 32.576 cum As per item No.9 =	pto plinth le	ork including evelThermo 32.576	g straighten - Mechanio	ing, cutting cally Treate Tota tal Deducte	, bending, d bars of g 80.0 80.0	placing in p rade Fe-500 2606.080 2716.720 5322.800	osition and DD or more kilogram gram
13	Steel reinforcement for binding all complete under the steel As per item No.8 = 32.576 cum As per item No.9 =	pto plinth le	ork including evelThermo 32.576	g straighten - Mechanid	ing, cutting cally Treate Tota tal Deducte Net Tota	, bending, d bars of g 80.0 80.0 al Quantity d Quantity al Quantity	2606.080 2716.720 5322.800 0.000 kilog	osition and DD or more kilogram gram
13	Steel reinforcement for binding all complete under the steel As per item No.8 = 32.576 cum As per item No.9 =	pto plinth le	32.576 33.959	g straighten - Mechanio To	Tota tal Deducte Net Tota Rs 91.89	, bending, d bars of g 80.0 80.0 al Quantity d Quantity al Quantity / kilogram	placing in p rade Fe-500 2606.080 2716.720 5322.800 0.000 kilog 5322.800 Rs 489	osition and OD or more kilogram gram kilogram 2112.09
	Steel reinforcement for binding all complete under the second of the sec	pto plinth le	32.576 33.959	g straighten - Mechanio To	Tota tal Deducte Net Tota Rs 91.89	, bending, d bars of g 80.0 80.0 al Quantity d Quantity al Quantity / kilogram	placing in p rade Fe-500 2606.080 2716.720 5322.800 0.000 kilog 5322.800 Rs 489	osition and OD or more kilogram gram kilogram 2112.09
	Steel reinforcement for binding all complete under the state of the steel state of the s	pto plinth le	32.576 33.959 Say5322.800	g straighten - Mechanio To	Tota tal Deducte Net Tota Rs 91.89	, bending, d bars of g 80.0 80.0 al Quantity d Quantity al Quantity / kilogram	placing in prade Fe-500 2606.080 2716.720 5322.800 0.000 kilog 5322.800 Rs 489	osition and OD or more kilogram gram kilogram 2112.09
	Steel reinforcement for binding all complete under the state of the st	pto plinth le	32.576 33.959 Say5322.800 a a floating c	g straighten - Mechanio To	Total Deducte Net Total Rs 91.89	, bending, d bars of g 80.0 80.0 al Quantity d Quantity al Quantity / kilogram	placing in prade Fe-500 2606.080 2716.720 5322.800 0.000 kilog 5322.800 Rs 489 ement : 3 fine	osition and OD or more kilogram gram kilogram 2112.09

	Digester outside	3.14	9.300				29.202	
	pocket inside	1	1.200		1.000		1.200	
	inside wall	1	3.200		2.500		8.000	
	settlement tank	1	3.900	2.000			7.800	
	inside wall	1	11.000		2.500		27.500	
	out side wall	1	12.600		2.500		31.500	
	Displacement tank bottom	1	4.500	Δ	3.000		13.500	
	inside wall	1	15.000	4	3.000		45.000	
	out side	1	17.400		3.000		52.200	
	filter tank bottom	1	4.000	2.000			8.000	
	inside wall	4	5.700	JIE/	3.000		68.400	
	out side	71	13.600		3.000	B [40.800	
	digester vertical wall inside	3.14	8.500		3.400		90.746	
	digester vertical wall outside	3.14	9.300		3.400		99.287	
	oil squeezing tank outer	1	13.600	9.000	3.000		40.800	
	oil squeezing tank inner 2 layer plastering ferro cement t nt	2	12.000		3.000		72.000	
	Inlet tank inner	1	4.000		1.000		4.000	
	Inlet tank outer	1	4.400		1.000		4.400	
					Tota	l Quantity	1131.574	sqm
				To	otal Deducted	d Quantity	0.000 sqn	ı
					Net Tota	l Quantity	1131.574	sqm
			Say1	131.574 sq	m @ Rs 375	.04 / sqm	Rs 424	1385.51
15	13.23.1 Extra for plastering on c	ircular worl	k not exceed	ing 6 m in r	adius.In one	coat		
	digester inside wall	3.14	8.500		3.400		90.746	
	digester outside wall	3.14	9.300		3.400		99.287	
					Tota	I Quantity	190.033 s	qm

				To	otal Deducte	d Quantity	0.000 sqm	1		
					Net Tota	al Quantity	190.033 s	qm		
			Sa	y190.033 s	qm @ Rs 39	.42 / sqm	Rs 74	191.10		
16	13.25.1 Extra for plastering :Sph	erical ceili	ng							
	Dome inside	3.14	22.900				71.906			
		~			Tota	al Quantity	71.906 sq	m		
				To	otal Deducte	d Quantity	0.000 sqm	1		
					Net Tota	al Quantity	71.906 sq	m		
	Say71.906 sqm @ Rs 146.96 / sqm Rs 10567.31									
17	6.4.1 Brick work with commor above plinth level up to sand)	190C.4 TOTAL		or Deleteration in the			•			
	digester inside	3.14	8.600	0.100	3.400	8 I	9.182			
	digester outside	3.14	9.200	0.100	3.400		9.822			
	pocket portion	1	4.800	0.200	2.500		2.400			
	Displacement tank	1	15.400	0.100	3.000		4.620			
	inner side		10.00							
	Displacement tank outer side	1	17.000	0.100	3.000		5.100			
	Displacement tank	1	17.000	0.100		al Quantity	5.100 31.124 cu	m		
	Displacement tank	1	17.000							
	Displacement tank	1	17.000		Tota		31.124 cu	1		
	Displacement tank	1		To	Tota	d Quantity	31.124 cu 0.000 cum 31.124 cu	1		
18	Displacement tank	ng pre cas 85 part I o	Say st solid blocks f 1979 for for	To 31.124 cum s (Factory r	Total Deducted Net Total @ Rs 8592	d Quantity al Quantity .76 / cum	31.124 cu 0.000 cum 31.124 cu Rs 267	m 7441.06 st availa		
18	Displacement tank outer side 50.6.1.4 Solid block masonry usi size confirming to IS 21	ng pre cas 85 part I o	Say st solid blocks f 1979 for for	To 31.124 cum s (Factory r	Total Deducted Net Total @ Rs 8592	d Quantity al Quantity .76 / cum	31.124 cu 0.000 cum 31.124 cu Rs 267	m 7441.06 st availa		
18	Displacement tank outer side 50.6.1.4 Solid block masonry usi size confirming to IS 21:1:6 (1 cement: 6 coars	ng pre cas 85 part I o e sand) e	Say st solid block f 1979 for for tc complete	To 31.124 cum s (Factory r undation an	Total Deducted Net Total Net Total network Rs 8592 made) of size and plinth with	d Quantity al Quantity .76 / cum	31.124 cu 0.000 cum 31.124 cu Rs 267 cm or neare 20cm and ab	m 7441.06 st availa		
18	Displacement tank outer side 50.6.1.4 Solid block masonry usi size confirming to IS 21:1:6 (1 cement: 6 coars settling tank	ng pre cas 85 part I o e sand) e	Say st solid block f 1979 for for tc complete 11.800	31.124 cum s (Factory rundation an	Total Deducted Net Total Of Rs 8592 made) of size and plinth with 2.300	d Quantity al Quantity .76 / cum	31.124 cu 0.000 cum 31.124 cu Rs 267 cm or neare 20cm and ab	m 7441.06 st availa		
18	Displacement tank outer side 50.6.1.4 Solid block masonry usi size confirming to IS 21:1:6 (1 cement: 6 coars settling tank oil squeezing tank	ng pre cas 85 part I o e sand) e 1	Say st solid block f 1979 for for tc complete 11.800 12.800	31.124 cum s (Factory rundation an	Total Deducted Net Total Office Rs 8592 made) of size and plinth with 2.300 2.800	d Quantity al Quantity .76 / cum	31.124 cu 0.000 cum 31.124 cu Rs 267 cm or neare 20cm and ab 5.428 7.168	m 7441.06 st availa		
18	Displacement tank outer side 50.6.1.4 Solid block masonry usi size confirming to IS 21:1:6 (1 cement: 6 coars settling tank oil squeezing tank partition wall	ng pre cas 85 part I o e sand) e 1 1	Say st solid block f 1979 for for tc complete 11.800 12.800 2.000	31.124 cum s (Factory r undation an 0.200 0.200 0.200	Total Deducted Net Total Office Rs 8592 made) of size and plinth with 2.300 2.800 2.400	d Quantity al Quantity .76 / cum	31.124 cu 0.000 cum 31.124 cu Rs 267 cm or neare 20cm and ab 5.428 7.168 2.880	m 7441.06 st availa		

				To	otal Deducted	d Quantity	0.000 cum	1	
					Net Tota	I Quantity	27.124 cu	m	
			Say	27.124 cum	n @ Rs 5562	.24 / cum	Rs 150	870.20	
19	6.10 Brick work in gauged are 1:3 (1 cement : 3 coarse common burnt clay F.P.	e sand) inc	luding cente	ring and sh	uttering com	plete, for s			
	Dome	3.14	23.780		0.100		7.467		
					Tota	I Quantity	7.467 cum	1	
	Total Deducted Quantity 0.000 cum								
			7/10		Net Tota	I Quantity	7.467 cum	1	
	li li	NO	Say	7.467 cum	@ Rs 16903	.00 / cum	Rs 126	214.70	
	Finishing walls with wate @ 3.84 kg/10 sqm)		7	nt of require	ed shade:Nev	w work (Tw		oats appli	
	Dome inside	3.14	22.900		1	J /	71.906		
	Digester inside	3.14	8.500		3.140		83.807		
	Digester bottom	3.14	18.060	a make			56.709		
	Dome outside	3.14	27.873		3.140		274.817		
	Digester outside	3.14	9.300				29.202		
	pocket inside	1	1.200		1.000		1.200		
	inside wall	1	3.200		2.500		8.000		
	settlement tank bottom	1	3.600	1.600			5.760		
	inside wall	4	4.500		3.000		54.000		
	out side wall	1	11.200		3.000		33.600		
	Displacement tank bottom	1	4.500		3.000		13.500		
	inside wall	1	15.000		3.000		45.000		
	out side	1	17.400		3.000		52.200		
	filter tank bottom	1	4.000	2.000			8.000		
	inside wall	4	5.700		3.000		68.400		
	out side	1	13.600		3.000		40.800		
	digester vertical wall	3.14	8.500		3.400		90.746		

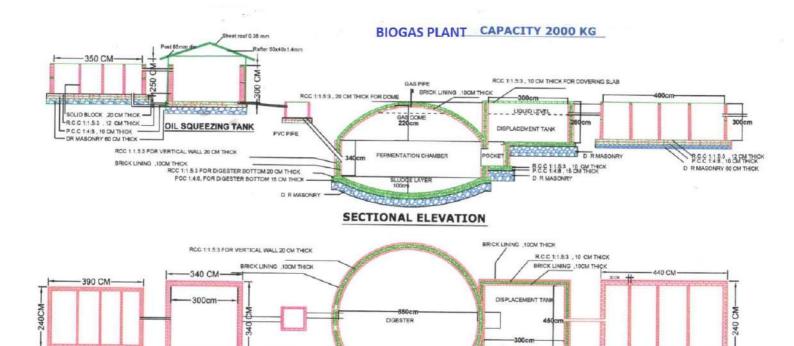
	digester vertical wall outside	3.14	9.300		3.400		99.287	
					Tota	al Quantity	1036.934	sqm
				To	tal Deducte	d Quantity	0.000 sqn	า
					Net Tota	al Quantity	1036.934	sqm
			Say1	036.934 sqr	m @ Rs 100).38 / sqm	Rs 104	1087.43
21	19.18.1 Supplying and fixing C weight of the cover to I			holes:455 x	610 mm re	ctangular C	.I cover (lig	nt duty) the
		3					3.000	
			THE REAL PROPERTY.		Tota	al Quantity	3.000 eac	h
	- 1	No.	_//93	To	tal Deducte	d Quantity	0.000 eac	h
		B_B	9 2	MEA	Net Tota	al Quantity	3.000 eac	h
		4.0	Say	3.000 each	@ Rs 1459	.30 / each	Rs 43	377.90
22	Providing and fixing C water supply, including 1.00 m spacing. This is of joints complete as p outer dia pipes	g all CPVC ncludes join	plain & brass ting of pipes	s threaded & fittings w	fittings inclu ith one step	iding fixing to CPVC solv	the pipe wit	h clamps at and testing
	water supply, including 1.00 m spacing. This in of joints complete as p	g all CPVC ncludes join	plain & brass ting of pipes	s threaded & fittings w	fittings inclu ith one step	iding fixing to CPVC solv	the pipe wit	h clamps at and testing
	water supply, including 1.00 m spacing. This in of joints complete as p	g all CPVC ncludes join er direction	plain & brassiting of pipes of Engineer	s threaded & fittings w	fittings inclu rith one step Internal wor	iding fixing to CPVC solv	the pipe with yent cement d on wall32 r	h clamps at and testing mm nomina
	water supply, including 1.00 m spacing. This in of joints complete as p	g all CPVC ncludes join er direction	plain & brassiting of pipes of Engineer	s threaded & fittings w -in-Charge.	fittings inclu rith one step Internal wor	ding fixing to CPVC solver Exposed	the pipe with vent cement don wall 32 r	h clamps at and testing mm nominal
	water supply, including 1.00 m spacing. This in of joints complete as p	g all CPVC ncludes join er direction	plain & brassiting of pipes of Engineer	s threaded & fittings w -in-Charge.	fittings inclurith one step Internal wor Tota otal Deducte	ding fixing to CPVC solver Exposed	the pipe with vent cement don wall32 reconstruction wall32 reconst	n clamps at and testing mm nomina netre
	water supply, including 1.00 m spacing. This in of joints complete as p	g all CPVC ncludes join er direction	plain & brassiting of pipes of Engineer 200.000	s threaded & fittings w -in-Charge.	fittings inclurith one step Internal wor Tota otal Deducte	ding fixing to CPVC solver Exposed al Quantity do Quantity al Quantity	the pipe with vent cement don wall32 reconstruction wall32 reconst	n clamps at and testing mm nomina netre
23	water supply, including 1.00 m spacing. This in of joints complete as p	g all CPVC ncludes join er direction 1	plain & brassiting of pipes of Engineer 200.000	s threaded & fittings w-in-Charge. To 0.000 metre	Total Deducte Net Total @ Rs 528.7	al Quantity d Quantity al Quantity al Quantity al Quantity al Quantity	the pipe with vent cement don wall 32 m 200.000 200.000 met 200.000 met 200.000 met As 109	n clamps at and testing mm nominal netre are netre
	water supply, including 1.00 m spacing. This in of joints complete as p outer dia pipes 2.25 Filling available excava exceeding 20 cm in de	g all CPVC ncludes join er direction 1	plain & brassiting of pipes of Engineer 200.000	s threaded & fittings w-in-Charge. To 0.000 metre	Total Deducte Net Total @ Rs 528.7	al Quantity d Quantity al Quantity al Quantity al Quantity al Quantity	the pipe with vent cement don wall 32 m 200.000 200.000 met 200.000 met 200.000 met As 109	netre 5746.00
	water supply, including 1.00 m spacing. This is of joints complete as p outer dia pipes 2.25 Filling available excava exceeding 20 cm in de and lift up to 1.5 m.	g all CPVC ncludes join er direction 1 ated earth (expth, consoli	plain & brassiting of pipes of Engineer - 200.000 Say200 excluding rood dating each	s threaded & fittings w-in-Charge. To 0.000 metre	Total Deducte Net Total @ Rs 528.7	al Quantity d Quantity al Quantity al Quantity al Quantity al Quantity	the pipe with vent cement don wall32 reconstruction wall32 reconst	n clamps at and testing mm nominal netre are netre
	water supply, including 1.00 m spacing. This is of joints complete as p outer dia pipes 2.25 Filling available excava exceeding 20 cm in de and lift up to 1.5 m. As per item No.2	g all CPVC ncludes join er direction 1 ated earth (expth, consoli	say200 excluding roodating each 673.600 964.359	s threaded & fittings w-in-Charge. To 0.000 metre	Total Deducte Net Total @ Rs 528. es, plinth, sayer by rami	al Quantity d Quantity al Quantity al Quantity al Quantity al Quantity	the pipe with vent cement don wall32 reconstruction wall32 reconst	n clamps at and testing mm nominal netre are netre
	water supply, including 1.00 m spacing. This is of joints complete as p outer dia pipes 2.25 Filling available excava exceeding 20 cm in de and lift up to 1.5 m. As per item No.2	g all CPVC ncludes join er direction 1 ated earth (expth, consoli	say200 excluding roodating each 673.600 964.359	s threaded & fittings w-in-Charge. To 0.000 metre ck) in trench deposited la	Total Deducte Net Total @ Rs 528. es, plinth, sayer by rami	al Quantity d Quantity al Quantity al Quantity al Quantity al Quantity	the pipe with vent cement don wall32 reconstruction wall32 reconst	n clamps at and testing mm nominal netre are netre
	water supply, including 1.00 m spacing. This is of joints complete as p outer dia pipes 2.25 Filling available excava exceeding 20 cm in de and lift up to 1.5 m. As per item No.2 As per item No.3	g all CPVC ncludes join er direction 1 ated earth (expth, consoli	say200 excluding roodating each 673.600 964.359	s threaded & fittings w-in-Charge. To 0.000 metre ck) in trench deposited la	Total Deducte Net Total @ Rs 528. es, plinth, sayer by rami	al Quantity d Quantity al Quantity al Quantity al Quantity al Quantity	200.000 no.000 met 200.000 no.000 met 200.000 no.000 dation etc. is atering, lead 673.600 964.359	n clamps at and testing mm nominal netre are netre
	water supply, including 1.00 m spacing. This is of joints complete as p outer dia pipes 2.25 Filling available excava exceeding 20 cm in de and lift up to 1.5 m. As per item No.2 As per item No.3	ated earth (epth, consoli	say200 excluding roodating each 673.600 964.359	s threaded & fittings w-in-Charge. To 0.000 metre ck) in trench deposited la	Total Deducted Net Total Deducted Rs 528. Tes, plinth, sayer by raming 84.000	al Quantity d Quantity al Quantity al Quantity al Quantity al Quantity	200.000 no.000 met 200.000 no.000 met 200.000 no.000 dation etc. is atering, lead 673.600 964.359	n clamps at and testing mm nominal netre are netre

	settling tank	1	3.600	2.000	2.000		-14.400	
	oil squeezing tank	1	3.400	3.400	2.400		-27.744	
	filter tank	1	4.400	2.400	2.800		-29.568	
	DR	1	56.000	2.400	2.800		-376.320	
					Tota	al Quantity	1637.959	cum
				To	tal Deducte	d Quantity	-861.440	cum
					Net Tota	al Quantity	776.519 c	um
			Say	776.519 cui	m @ Rs 241	.71 / cum	Rs 187	7692.41
	Disposal of building rule means, including loadir by Engineer-in-charge,	ng, transpor	ting, unloadi	ng to appro	ved municip	al dumping	ground or a	
	- (4-100	1 5		Tota	al Quantity	500.000 c	um
	-	1		To	otal Deducte	d Quantity	0.000 cun	1
					Not Tota	ol Ougantity	500.000 d	ıım
		1474			Net 10ta	al Quantity	300.000 0	<u> </u>
	-		Say	500.000 cui	m @ Rs 152	- 41		395.00
25	50.18.9.10.1 Providing and fixing PV refilling & testing of joir inner connection		cludings joint	ting of pipes	m @ Rs 152	2.79 / cum	Rs 76	395.00 , trenching
25	Providing and fixing P\ refilling & testing of joir inner connection	nts complete	cludings joint e as per dire 24.000	ting of pipes	m @ Rs 152	2.79 / cum	Rs 76 vent cement nm dia 6 Kg 24.000	395.00 , trenching
25	Providing and fixing P\ refilling & testing of join	nts complete	cludings joint e as per dire	ting of pipes	m @ Rs 152 s with one s gineer in Ch	2.79 / cum tep pvc solv arge. 150 m	Rs 76	395.00 , trenching f/cm2
25	Providing and fixing P\ refilling & testing of joir inner connection	nts complete	cludings joint e as per dire 24.000	ting of pipes	m @ Rs 152 s with one s gineer in Ch	tep pvc solv arge. 150 m	Rs 76 vent cement nm dia 6 Kg 24.000 50.000 74.000 me	395.00 , trenching f/cm2
25	Providing and fixing P\ refilling & testing of joir inner connection	nts complete	cludings joint e as per dire 24.000	ting of pipes	m @ Rs 152 s with one s gineer in Ch Tota otal Deducte	2.79 / cum tep pvc solv arge. 150 m al Quantity d Quantity	Rs 76 vent cement nm dia 6 Kg 24.000 50.000	395.00 , trenching f/cm2 etre
25	Providing and fixing P\ refilling & testing of joir inner connection	nts complete	cludings joint e as per dire 24.000 50.000	ting of pipes ction of Eng	m @ Rs 152 s with one s gineer in Ch Tota otal Deducte	tep pvc solvarge. 150 m al Quantity d Quantity al Quantity	Rs 76 vent cement mm dia 6 Kg 24.000 50.000 74.000 met 74.000 met	395.00 , trenching f/cm2 etre
25	Providing and fixing P\ refilling & testing of joir inner connection	ts complete 1 1 VC pipes ir pes with or	Say74 cludings jointer as per directly 24.000 Say74 cluding fixing step PV0	ting of pipes ction of Eng To 4.000 metre ng the pipe C solvent c	Total Deducte Net Tota @ Rs 844.	tep pvc solvarge. 150 m al Quantity d Quantity al Quantity 12 / metre os/ clips/ at testing of j	Rs 76 vent cement m dia 6 Kg 24.000 50.000 74.000 me 74.000 me Rs 62 1.00 m spa joints comp	trenching f/cm2 etre etre 464.88 acing . This
	Providing and fixing PV refilling & testing of join inner connection conveying gray water 50.18.9.19.1 Providing and fixing P includes jointing of pi	ts complete 1 1 VC pipes ir pes with or	Say74 cludings jointer as per directly 24.000 Say74 cluding fixing step PV0	ting of pipes ction of Eng To 4.000 metre ng the pipe C solvent c	Total Deducte Net Tota @ Rs 844.	tep pvc solvarge. 150 m al Quantity d Quantity al Quantity 12 / metre os/ clips/ at testing of j	Rs 76 vent cement m dia 6 Kg 24.000 50.000 74.000 me 74.000 me Rs 62 1.00 m spa joints comp	trenching f/cm2 etre etre 464.88 acing . This
	Providing and fixing PV refilling & testing of join inner connection conveying gray water 50.18.9.19.1 Providing and fixing P includes jointing of pidirection of Engineer-	VC pipes ir pes with or in-Charge	Say74 ncluding fixing step PV0	ting of pipes ction of Eng To 4.000 metre ng the pipe C solvent c	Total Deducte Net Tota @ Rs 844.	tep pvc solvarge. 150 m al Quantity d Quantity al Quantity 12 / metre os/ clips/ at testing of j	Rs 76 vent cement of m dia 6 Kg 24.000 50.000 74.000 met 74.000 met 74.000 met 1.00 m spanionts completed on with	trenching f/cm2 etre etre etre 464.88 acing . This
	Providing and fixing PV refilling & testing of join inner connection conveying gray water 50.18.9.19.1 Providing and fixing P includes jointing of pidirection of Engineer-	VC pipes ir pes with or in-Charge	Say74 ncluding fixing step PV0	ting of pipes ction of Eng To 4.000 metre ang the pipe C solvent can 6 Kgf/cm2	Total Deducte Net Tota @ Rs 844.	tep pvc solvarge. 150 m al Quantity d Quantity al Quantity 12 / metre os/ clips/ at testing of j I work- Exp	Rs 76 vent cement am dia 6 Kg 24.000 50.000 74.000 met 74.000 met 74.000 met 1.00 m spanioints comprosed on wat 25.000	trenching f/cm2 etre etre etre 464.88 ecing . This lete as peall
	Providing and fixing PV refilling & testing of join inner connection conveying gray water 50.18.9.19.1 Providing and fixing P includes jointing of pidirection of Engineer-	VC pipes ir pes with or in-Charge	Say74 ncluding fixing step PV0	ting of pipes ction of Eng To 4.000 metre ang the pipe C solvent can 6 Kgf/cm2	Total Deducte Net Total @ Rs 844.	tep pvc solvarge. 150 m al Quantity d Quantity al Quantity 12 / metre os/ clips/ at testing of j I work- Exp	Rs 76 vent cement of m dia 6 Kg 24.000 50.000 74.000 met 74.000 met 74.000 met 25.000 25.000 met	trenching f/cm2 etre etre 464.88 acing . This lete as peall

27	10.16.1 Steel work in built up to cutting, hoisting, fixing and bolted with special	oosition an	nd applying a prir	ning coat of appro	oved steel pi	rimer, includ				
	post 50 mm dia G.I. pipe	6	4.500		5.03	135.810				
	wall plate - 80x40x2.60m RHS	2	3.300		4.5	29.700				
	Rafter - 60x40x2.60 mm RHS	4*2	2.200		3.69	64.944				
	collar - 60x40x2.60 mm RHS	4*2	2.200	4/	3.69	64.944				
	purlin 25x25x2.6 mm SHS	4*2	3.900		1.69	52.728				
			F 5334	То	tal Quantity	348.126 k	g			
			1	Total Deduct	ed Quantity	0.000 kg				
		7		Net To	tal Quantity	348.126 k	g			
	10		Say	48.126 kg @ Rs	157.80 / kg	Rs 54	934.28			
	Painting with synthetic of more coats on new wor post 50 mm dia G.I. pipe		4.000	rand and manufa	cture to give	4.800	ade:Two			
	wall plate - 80x40x2.60m RHS	2	3.300		0.2	1.320				
	Rafter - 60x40x2.60 mm RHS	4*2	2.200		0.2	3.520				
	collar - 60x40x2.60 mm RHS	4*2	2.200		0.2	3.520				
	purlin 25x25x2.6 mm SHS	4*2	3.900		0.1	3.120				
				То	tal Quantity	16.280 sq	m			
				Total Deduct	ed Quantity	0.000 sqm	1			
				Net To	tal Quantity	16.280 sq	m			
			Say16.	280 sqm @ Rs 13	3.72 / sqm	Rs 21	76.96			
29	Say16.280 sqm @ Rs 133.72 / sqm Rs 2176.96 51.20 Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch ofcorrugation a approved by Engineer-in-charge) 0.35 mm (+0.05%), total coatedthickness with zinc coating 120 gram									

	polyester to avoid scrategies desired by (5.5x55mm	s per IS: 277 top coat 15- atchesduring Engineer-in n) with EPDM purlins, rafte	18 microns transporta -charge. TI I seal, com	Sheet sho ation and some sheet sheet appearance and	uld have pro hould be su nall be fixed any pitch in h	otective gua upplied in s using self norizontal/ ve	rd film of 2 ingle lengt drilling/self ertical orcur	5 microns relations to the second to the second table to the second table to the second to the second table table to the second table	minimum t netre or a rews ofsiz s, excludin
	Sheet squeezi	for oil ng tank	2	2.400	4.000			19.200	
	Ridge		1	3.600	1.000			3.600	
	Total Quantity							22.800 sqm	
	Total Deducted Quantity							0.000 sqm	
	Net Total Quantity							22.800 sqm	
	Say22.800 sqm @ Rs 562.88 / sqm							Rs 12833.66	
SI No	Description		No	L	В	D	CF	Quantity	Remark
	2	supplying &	fixing Cov	v dung in t	o the plant 2	288.836 cu.ı	n x 1300/cı	J.m □	
	Lump-S			Sum Total				Rs 375486.80	
	SI No	Descr	iption	No	L	В	D	CF	Quantity
Remark			4817	3 providir	ng stove - 2	Nos x 5900			
Lump-Sum Total								Rs 11800.00	
	SI No	Descr	iption	No	L	В	D	CF	Quantity
Remark	4 Providing Name Board								
Lump-Sum Total								Rs 5000.00	
					Amount	reserved fo	or GST pay	ments Rs	780883.8
								Total Rs	5119127.5
Lumpsum for round off								872.43	
								Rs 5119999.	
								d Total Rs	
						Dunasa Fift			
						Rupees Fifty	One Lakh	rwenty ino	usanu Un

(Cost Index Applied for this estimate is 35.59%)



PLAN

FILTER TANK

N

INLET TANK

OIL SQUEEZING

SETTLING AND MIXING TANK