CONSTRUCTION OF 5MLD STP AT KWA SITE AT ELAMKULAM IN KOCHI

DETAILED PROJECT REPORT

VOLUME III ESTIMATE



8/5288-I, Near Kuttiady Irrigation Project Office Moottoli, Kakkodi P.O., Calicut – 673611 Mob: 9446048233, 0495-4025433

ESTIMATE

	ANNEXURE - C	
	ESTIMATE FOR 5MLD STP AT ELAMKULAM	, KOCHI
		Amount (Rs.)
Α	COLLECTION SYSTEM	· · · ·
1	Extention of 600m DI Pumping Mains	8930000
	SUB TOTAL	8930000
В	PILING	
1	Pile Foundations for Civil Tanks	38270000
	SUB TOTAL	38270000
В	STP CIVIL WORKS	
1	Site Clearing, Levelling & Shifting of Materials	1632000
2	Receiving Chamber, Screen Channel & Grit Chamber	2386000
3	Equalisation Tank	6780000
4	MBBR - 01	2410000
5	MBBR - 02	2410000
6	Clarifier	5738000
7	Sludge Sump	500000
8	Sludge Thickener	1230000
9	Thickened Sludge Sump	500000
10	Filter Feed Tank	1650000
11	Treated Water Tank	1650000
12	Centrate Sump	336000
13	Treated Water Channel	267000
14	Sludge Storage Yard	811000
15	Transformer Housing, Control Room & Laboratory Building	4300000
16	Centrifuge Building	2130000
17	Filter & Generator Foundations	2713000
18	Pump House (4Nos)	788000
19	Internal Roads, Walkways & Storm Water Drain	5748000
17	Landscaping	767000
	SUB TOTAL	43979000
С	MECHANICAL WORKS	
1	STP Equipments wit plant Piping	22900000
	SUB TOTAL	22900000
D	ELETRICAL WORKS	
1	STP Electricals work	11000000
	SUBTOTAL	11000000
Ε	FURNITURES & LABORATORY ITEMS	500000
	TOTAL (A+B+C+D+E)	125579000

We hereby certify that the rates provided in this estimate are the rates included in the DSR 2016 or the rate approved by the PWD. The cost index of Kochi is taken as 1.4608 as instructed by the PWD. Market rates for other materials which are not available in the DSR 2016 are directly taken from the local market including all its overhead costswhich are lowest and reasonable.

RAM BIOLOGICALS

		CONSTRUCTION OF 5 MLD SEW	AGE TREA	TMENT PLA	NT AT ELA	MKULAM, KO	ЭСНІ				
		EXTENSIO	ON OF DI F	PUMPING M	IAINS						
ltem no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount		
1	2.10.1.3	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : a) All kinds of soil Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm.									
	2Nos of 600mm Pipe 2 130 260.00 m										
		Say		260.00	m	@ Rs.	514.20	/m	133692.00		
2	2.10.1.3	Extra for excavating trenches for pipes exceeding 3m. (Rate is over correspond				-	ceeding 1.5n	n, but not			
		2Nos of 600mm Pipe	2	130			260.00	m			
		Say		260.00	m	@ Rs.	1.86	/m	482.00		
3	23.5	Supplying, filling, spreading & leveling coarse gravel of size range 5cm to 20 cm in trenches, in required thickness over gravel layer, for all leads& lifts, all complete as per direction of Engineer -in-charge.									
			1	130.00	2.4	0.9	280.80	m³			
		Deduction (Pipe volume)	2	130.00			36.74	m ³			
		Total Less Deduction					244.06	m³			
		say	244.06	m³	@ Rs.	1346.71	/Each	/m³	328681.00		
4	18.73.10	Providing and laying Double Flanged (S 9 conforming to IS: 8329 : 600 mm dia				Spun) Ductile	e Iron Pipes o	f Class K -			
		2Nos of 600mm Pipe	2	10			20.00	m			
		Say		20.00	m	@ Rs.	22155.08	/m	443102.00		

5	18.72.24	Providing and laying S&S Centrifugally (Ductile Iron Double Flanged : 600 mm c	•••		•	onforming to	IS : 8329 : 60)0 mm dia	
		2Nos of 600mm Pipe	2	130			260.00	m	
		Say		260.00	m	@ Rs.	13895.64	/m	3612867.00
6	18.69.1	Providing and laying D.I. Specials of Cl 600mm dia	ass K - 12	suitable for	· mechanic	al jointing as	s per IS : 952	23 - Upto	
		600mm DI 90°Bend	8	@ 1025kg			8200.00	Kg	
		600mm DI 45°Bend	6	@ 755kg			4530.00	Kg	
		600mm DI Tee	2	@ 1075kg			2150.00	Kg	
		600mm Flanged Tail Piece	2	@ 600kg			1200.00	Kg	
		Total					16080.00	Kg	
		say	160.80	Qn	@ Rs.	23675.84	Qn		3807076.00
7	MR	Supplying, fixing, testing and commissi specifications or as directed by Enginee	•		ually oper	ated Sluice V	alve of DI bo	ody as per	
		600mm Valve	2				2.00		
		Total					2.00	Nos	
		say	2.00	Nos	@ Rs.	260333.00	Nos		520666.00
7	2.25	Filling available excavated earth (exclue exceeding 20cm in depth, consolidatin and lift up to 1.5 m.			•			•	
		2Nos of 600mm Pipe	1	130.00	2.40	1.60	499.20	m ³	
		Total					499.20	m³	
		Say		499.20	m³	@ Rs.	164.19		81966.00
8	LS	Unforeseen Items							1468.00
		Grand Total							8930000.00
		(Rupees Eighty	Nine Lakh	ns Thirty Tho	usand On	ly)			

		CONSTRUCTION OF 5 MLD SEWAG	E TREAT	MENT PL	ANT AT EL	AMKULAN	Л, КОСНІ					
		PILE	FOUND	ATIONS								
ltem no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount			
		Boring, providing and installation bore	ed cast-i	n-situ reir	nforced ce	ment con	crete piles of	grade M-				
		25 of specified diameter and length	below p	oile cap, t	o carry a	safe work	king load not	less than				
		specified, excluding the cost of steel re	einforce	ment but	including t	the cost o	f boring with b	entonite				
1	20.2	solution and temporary casing of app	ropriate	length fo	r setting o	out and re	moval of same	and the				
		length of the pile to be embedded i	ength of the pile to be embedded in the pile cap etc. by Crawler mounted, telescopic boom									
		hydraulic pilling Rig all complete, incl	raulic pilling Rig all complete, including removal of excavated earth with all its lifts and leads									
		(length of pile for payment shall be me	ength of pile for payment shall be measured up to bottom of pile cap).									
	20.2A.1	600mm	49	56			2744.00	m				
		Say		2744.00	m	@ Rs.	5402.26	/m	14823795.00			
	20.2A.2	750mm	50	56			2800.00	m				
		Say		2800.00		@ Rs.	7770.43		21757214.00			
		Vertical load testing of piles in accord platform by Kentledge/Anchor piles n cap and dismantling of test cap after	nethod a	and prepa	ration of	pile head	or constructio	n of test				
2	20.6		ngineer in-charge. lote:- 1 . Initial and Routine Load test shall not be carried out by Dynamic method of testing lote:-2. Testing agency shall submit the design of loading platform for the approval of Engineer-in-									
			ngle pile above 50 tonne and upto 100 tonne safe capacity									
	20.6.2.1	Initial test (Test load 2.5 times the safe capacity)	· · · · · · · · · · · · · · · · · · ·									
		Say		8.00	Nos	@ Rs.	68377.78	/Nos	547022.00			

	20.6.2.1	Routine test. (Test load 1.5 times the safe capacity)	8				8.00	Nos								
		Say		8.00	Nos	@ Rs.	39024.54	/Nos	312196.00							
		Cyclic vertical load testing of pile in	accorda	ance with	IS Code	of praction	ce IS: 2911 (pa	art IV) by	,							
3	20.7	Kentledge method including preparation	on of pil	e head et	c for.											
		Group of two or more piles.														
	20.7.2.1	Upto 400 tonne safe capacity of group	8				8.00	Nos								
		Say		8.00	Nos	@ Rs.	50053.44	/Nos	400427.00							
4	20.8	Lateral load testing of single pile in a	accorda	nce with	IS Code of	of practice	e IS : 2911 (Pa	rt IV) for								
4	20.8	termining safe allowable lateral load on pile :														
	20.8.2	Above 50 tonne and upto 100 tonne	8				8.00	Nos								
	20.8.2	capacity pile	0													
		Say		8.00	Nos	@ Rs.	40042.57		320341.00							
5	20.9	Integrity testing of Pile using Low accordance with IS 14893 including su chipping lean concrete lumps etc. a personal for conducting the test & sub in-charge. Note:- The inclusion of the above iter technical sanctioning authority, keep importance of the project.	irface p nd use omissior n in the	reparatio of comp of result schedule	n of pile t uterised e s, all com	op by rem equipmen olete as p hall be ju	noving soil, mu t and high ski er direction of diciously decide	d, dust & II trained Engineer- ed by the								
	20.8.2	Above 50 tonne and upto 100 tonne capacity pile	99				99.00	Nos								
		Say		99.00	Nos	@ Rs.	1096.99	/Nos	108602.00							
6	LS	Unforeseen Items							403.00							
		Grand Total							38270000.00							
		(Rupees Three Crore	Eighty	Two Lakh	s Seventy	Thousand	d Only)	(Rupees Three Crore Eighty Two Lakhs Seventy Thousand Only)								

		CONSTRUCTION OF 5 MLD SE	WAGE 1	REATMEN	T PLANT A	T ELAMKU	LAM, KOCHI				
		MIS	CELLAN		WORKS						
		S	ite Clea	ring & Leve	elling						
Item no	Item Code	Description	No	L	В	н	Quantity	Unit	Amount		
1	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50m outside the periphery of the area cleared.									
		Plant Area	1				9600.00				
		Total					9600.00	m ³			
		Say		9600.00	m³	@ Rs.	9.08	/m³	87146.00		
2	2.33.2	Felling trees of the girth (measu trunks and branches, removing unserviceable material. Beyond 60	the roo	ts and sta	cking of s	erviceable	material and				
		LS	200				200.00	Nos			
		Total					200.00	Nos			
		say		200.00	Nos	@ Rs.	1420.92	/1Nos	284184.00		
		Demolition of Exisitin									
3	15.7.3	Demolishing brick work manually, and disposal of unserviceable m charge. In lime mortar									
		Sludge Storage Shed	1	40.00	0.20	5.00	40.00	m ³			
		Store Room	1	26	0.20	4.00	20.80	m ³			
		Total					60.80				
		say		60.80	m³	@ Rs.	508.80	/1m³	30935.00		
4	15.8.2	Removing mortar from bricks and cleaned bricks shall be measured)		-	-	-	n a lead of $\overline{50}$ i	n (stacks of			
		Sludge Storage Shed					2841.00	Nos			

		Store Room					1477.00	Nos	
		Total					4318.00	Nos	
		say		4318.00	Nos	@ Rs.	3256.93	/1000Nos	14063.00
5	15.3	Demolishing R.C.C. work manual disposal of unserviceable material				-	-		
		Sludge Storage Shed					10.00	m ³	
		Store Room					6.00	m ³	
		Total					16.00		
		say		16.00	m³	@ Rs.	2124.81	/1m³	33997.00
6	15.18	plates, bolts, nuts, cutting rivets metres lead.	, weldir	ng etc. inc	luding dis	membering	g and stacking	g within 50	
			1				4000.00		
		Sludge Storage Shed Store Room					1800.00 900.00	Kg Kg	
		Total					2700.00	кġ	
		say		2700.00	Kg	@ Rs.	3.51	/1Kg	9466.00
7	1.1.17.8	Carriage of 50tonnes of Steel mar from the site to the nearby KV unloading and stacking in proper by the Engineer-In Charge Beyond upto 10 km per km	WA sto in desig	rage yard	by Mech	anical Trai	nsport includi	ing loading,	
		400mm @ 16	52kg/m (as						
							310.00	m	
		Total					310.00		
		say		309.00	m	@ Rs.	3715.90	/m	1148212.00

8	1.1.18	by mechanical transport inclu	Disposal of moorum/ building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-Charge.								
							76.00	m ³			
		Total					76.00				
		say		76.00	m³	@ Rs.	306.62	/1m³	23303.00		
9	LS	Unforeseen Items							694.00		
		Grand Total							1632000		
		(Rupe	ees Sixteen l	lakhs Thirty	y Two Tho	usand Only					

		CONSTRUCTION OF 5 MLD SEWAG	SE TREA	TMENT PL	ANT AT ELA	MKULAM,	КОСНІ					
		RECEIVING CHAMBER, SCREEN CH	IANNEL	& GRIT CH	AMBER &	PARSHALL	FLUME					
item no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount			
		Fou	ndation	s, Columns	& Beams							
Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over												
1	2.6.1	(exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including getting out and disposal										
		of excavated earth, lead up to 50m and lift up to 1.5m, as directed by Engineer-in-Charge.										
		For Column - C1	5	3.20	1.30	1.50	31.2					
		For Column - C2	6	1.10	1.10	1.50	10.89					
		Total					42.09	m³				
		say		42.09	m³	@ Rs.	183.99	/1m³	7744.00			
						-		-				
2	2 6 4 . 2 26 4	Extra for every additional lift of 1.5 m	or par	t thereof i	n excavatio	n /banking	g excavated o	or stacked				
2	2.6.1+2.26.1	Extra for every additional lift of 1.5 m materials. Ordinary Rock	or par	t thereof i	n excavatic	on /banking	g excavated o	or stacked				
2	2.6.1+2.26.1	-	or par	t thereof i 3.20			excavated of 22.88					
2	2.6.1+2.26.1	materials. Ordinary Rock			1.30		22.88 7.99					
2	2.6.1+2.26.1	materials. Ordinary Rock For Column - C1	5	3.20	1.30	1.10	22.88					
2	2.6.1+2.26.1	materials. Ordinary Rock For Column - C1 For Column - C2	5	3.20	1.30 1.10	1.10	22.88 7.99	m ³	8013.00			
2	2.6.1+2.26.1	materials. Ordinary Rock For Column - C1 For Column - C2 Total	5 6	3.20 1.10 30.87	1.30 1.10 m ³	1.10 1.10 @ Rs.	22.88 7.99 30.87 259.58	m ³ /m ³	8013.00			
2	2.6.1+2.26.1 4.1.8	materials. Ordinary Rock For Column - C1 For Column - C2 Total Say	5 6 concre	3.20 1.10 30.87 te of specif	1.30 1.10 m³ Fied grade e	1.10 1.10 @ Rs. xcluding th	22.88 7.99 30.87 259.58 e cost of cent	m ³ /m ³ tering and	8013.00			
		materials. Ordinary Rock For Column - C1 For Column - C2 Total Say Providing and laying in position cement	5 6 concre	3.20 1.10 30.87 te of specif	1.30 1.10 m³ Fied grade e	1.10 1.10 @ Rs. xcluding th	22.88 7.99 30.87 259.58 e cost of cent	m ³ /m ³ tering and	8013.00			
		materials. Ordinary Rock For Column - C1 For Column - C2 Total Say Providing and laying in position cement shuttering - All work up to plinth leve	5 6 concre	3.20 1.10 30.87 te of specif	1.30 1.10 m ³ fied grade ent : 4 coars	1.10 1.10 @ Rs. xcluding th e sand(zon	22.88 7.99 30.87 259.58 e cost of cent	m ³ /m ³ tering and ded stone	8013.00			
		materials. Ordinary Rock For Column - C1 For Column - C2 Total Say Providing and laying in position cement shuttering - All work up to plinth leve aggregate 40 mm nominal size).	5 6 concre l : 1:4:8	3.20 1.10 30.87 te of specif 3 (1 Cemer	1.30 1.10 m ³ fied grade e nt : 4 coars 1.30	1.10 1.10 @ Rs. xcluding th e sand(zon	22.88 7.99 30.87 259.58 e cost of cent e-III) : 8 grad	m ³ /m ³ tering and ded stone	8013.00			
		materials. Ordinary Rock For Column - C1 For Column - C2 Total Say Providing and laying in position cement shuttering - All work up to plinth leve aggregate 40 mm nominal size). For Column - C1	5 6 concre l : 1:4:8	3.20 1.10 30.87 te of specif 3 (1 Cemer 3.20	1.30 1.10 m ³ fied grade e nt : 4 coars 1.30	1.10 1.10 @ Rs. xcluding th e sand(zon 0.20	22.88 7.99 30.87 259.58 e cost of cent e-III) : 8 grad 4.16	m ³ /m ³ tering and ded stone	8013.00			

4	5.37.1	Providing and laying in position ready work, using cement content as per ap plant and transported to site of work in manufactured as per mix design of sp pumping of R.M.C. from transit mixer finishing and reinforcement, including c to accelerate/ retard setting of concrete as per direction of the Engineer - in - ch kg/cum. Excess/less cement used as per plinth level	proved n transi ecified to site ost of a e, impro arge. (N	design mi t mixer for grade for of laying , dmixtures ve workab lote :- Cen	x, manufac r all leads, f reinforced , excluding in recomme ility without nent conten	tured in fun naving cont cement co the cost co ended prop t impairing at considere	Ily automatic inuous agitat ncrete work, of centering, s portions as per strength and ed in this item	batching ed mixer, including huttering r IS : 9103 durability is @ 330	
		Column - C1 Raft	5	3.00	1.10	0.40	6.60		
		Column - C2 Raft	6	1.10	1.10	0.40	2.90		
		Columns - C1	10	0.30	0.30	2.00	1.80		
		Columns - C2	6	0.30	0.30	2.00	1.08		
		Plinth Beams	5	1.90	0.30	0.45	1.28		
			2	11.32	0.30	0.45	3.06		
			2	8.05	0.30	0.45	2.17		
			3	3.55	0.30	0.45	1.44		
			2	6.20	0.30	0.45	1.67		
		Total					22.01		
		Say		22.01	m³	@ Rs.	9807.23	/m³	215839.00

5	5.37.2	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately). All works above plinth levelColumns - C120.301.200.22							
		Columns - C1	2	0.30	0.30	1.20	0.22		
			4	0.30	0.30	0.70	0.25		
		Columns - C2	6	0.30	0.30	0.70	0.38		
		Beams - B1	5	1.90	0.30	0.30	0.86		
			2	3.80	0.30	0.30	0.68		
			2	8.05	0.30	0.30	1.45		
			3	3.55	0.30	0.30	0.96		
			2	6.20	0.30	0.30	1.12		
		Total					5.91		
		Say		5.91	m³	@ Rs.	10981.13	/m³	64882.00
6	5.22.6	Steel reinforcement for R.C.C. work inc binding all complete up to&above plinth	-	-				sition and	
		quantity as per item no 4		22.01	120	kg/m³	2640.98		
		quantity as per item no 5		5.91	121	kg/m132	714.93		
		Total					3355.91		
		say		3355.91	kg	@ Rs.	82.68	/Kg	277471.00
7	5.9.1	Centering and shuttering including strut	ting, pr	opping etc.	and remov	al of form	for :mass con	ocrete.	
		Column - C1 Raft	5	8.20		0.40	16.40		
		Column - C2 Raft	6	4.40		0.40	10.56		

		Total					26.96	m²	
		Say		26.96	m²	@ Rs.	283.32	/m²	7638.00
8	5.9.5	Centering and shuttering includi	ng strutting, pro	opping etc	. and remo	val of form	for :for beam	, lintel etc	;
		Plinth Beams - PB 1	10	1.90		0.45	8.55		
			4	11.32		0.45	20.38		
			4	8.05		0.45	14.49		
			6	3.55		0.45	9.59		
			4	6.20		0.45	11.16		
		Beams - B1 Sides	10	1.90		0.30	5.70		
			4	3.80		0.30	4.56		
			4	8.05		0.30	9.66		
			6	3.55		0.30	6.39		
			4	6.20		0.30	7.44		
		Beams - B1 Bottom	5	1.90	0.30		2.85		
			2	3.80	0.30		2.28		
			2	8.05	0.30		4.83		
			3	3.55	0.30		3.20		
			2	6.20	0.30		3.72		
		Total					114.79	m²	
		Say		114.79	m²	@ Rs.	500.91	/m²	57497.00
9	5.9.6	Centering and shuttering includi	ng strutting, pro	opping etc	. and remo	val of form	for : Columns	5	
		Columns - C1	4	1.20		2.00	9.60		
			2	1.20		3.20	7.68		
			4	1.20		2.70	12.96		
		Columns - C2	6	1.20		2.70	19.44		
		Total					49.68	m²	
		Say		49.68	m²	@ Rs.	683.44	/m²	33953.00

10	13.7.1	12 mm cement plaster finished with a	floating o	coat of nea	t cement o	of mix : 1:3 (1 cement: 3 fii	ne sand)	
		Columns - C1	2	1.20		1.20	2.88		
			4	1.20		0.70	3.36		
		Columns - C2	6	1.20		0.70	5.04		
		Plinth Beams - PB 1	10	1.90		0.45	8.55		
			4	11.32		0.45	20.38		
			4	8.05		0.45	14.49		
			6	3.55		0.45	9.59		
			4	6.20		0.45	11.16		
		Beams - B1 Sides	10	1.90		0.30	5.70		
			4	3.80		0.30	4.56		
			4	8.05		0.30	9.66		
			6	3.55		0.30	6.39		
			4	6.20		0.30	7.44		
		Beams - B1 Bottom	5	1.90	0.30		2.85		
			2	3.80	0.30		2.28		
			2	8.05	0.30		4.83		
			3	3.55	0.30		3.20		
			2	6.20	0.30		3.72		
		Total					126.07		
		Say		126.07	m²	@ Rs.	331.31	/m²	41767.00
11	13.52.2	Finishing with Epoxy paint (two or manufacturer's specifications includ complete. On concrete work		-		• •	• •	-	
		quantity as per item no 12	1	9.05		1.60	14.48		
		Total					14.48		
		say	14.5	m²	@ Rs.	181.87	/1m ²		2633.00

		RECEIVING CHAMBER, SCREEN CHA	RECEIVING CHAMBER, SCREEN CHANNEL, GRIT CHAMBER, PARSHALL FLUME & DISTRIBUTION										
		Providing and laying in position ready	mixed	M-30 grad	de concrete	for reinfo	rced cement concre	ete					
		work, using Sulphate Resistant Cemen	t conte	ent as per	approved d	esign mix,	manufactured in fu	illy					
		automatic batching plant and transpo	rted to	o site of v	work in tra	nsit mixer	for all leads, hav	ing					
		continuous agitated mixer, manufacture	ed as po	er mix des	ign of speci	fied grade	for reinforced ceme	ent					
	OBS DATA	concrete work, including pumping of R.M.C. from transit mixer to site of laying , , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. (Note :- Cement content considered in this item is @ 340 kg/cum. Excess/less cement used as per design mix is payable/											
12	BASED ON												
	5.37.2+5.34.1												
		recoverable separately). All works above	coverable separately). All works above plinth level upto floor V level										
		Base Slab											
		Grit Chamber	1	5.60	9.50	0.20	10.64						
		Screen Channel	1	7.00	2.90	0.20	4.06						
		Receiving Chamber	1	4.40	2.90	0.20	2.55						
		Parshall Flume with Distribution	1	4.40	2.90	0.20	2.55						
		Chamber	1	5.60	2.26	0.20	2.53						
		Wall											
		Distribution Channel - Right	1	9.05	0.20	1.40	2.53						
		Grit Chamber - Long	2	8.05	0.25	1.40	5.64						
		Grit Chamber - Short	3	3.65	0.25	1.40	3.83						
		Distribution Channel - Left	1	9.55	0.20	1.40	2.67						
		Screen Channel	4	7.00	0.15	1.00	4.20						
		Receiving Chamber - Long	2	4.40	0.20	2.50	4.40						
		Receiving Chamber - Short	2	1.50	0.20	2.50	1.50						
		Parshall Flume with Distribution	2	5.60	0.20	1.40	3.14						
		Chamber - Long Wall	۷	5.00	0.20	1.40	5.17						
		Parshall Flume with Distribution	2	1.86	0.20	1.40	1.04						
		Chamber - Short Wall	-										
			1	3.00	0.20	1.40	0.84						

		Total					49.58	m³	
		say		49.58	m³	@ Rs.	12355.58	/1m³	612544.00
13		Epoxy Coated Steel reinforcement for R	.C.C. w	ork includi	ng straighte	ening, cutti	ng, bending,	placing in	
10	ON 5.22.6	position and binding all complete upto p	linth le						
		quantity as per item no 12		49.58	120	kg/m³	5949.16		
		Total					5949.16	•	
		say		5949.16	-	@ Rs.	89.82	- •	534354.00
14	4.12	Extra for providing and mixing water pro cement as per manufacturer's specification	-	naterial in	cement co	ncrete wor	k in doses by	weight of	
		quantity as per item no 1		49.58	340	kg/m³	16855.94	Kg	
		Total					16855.94	Kg	
						50kg/bag	337.12	bag	
		say		337.12	Bags	@ Rs.	70.05	/bag	23614.00
15	5.9.2	Centering and shuttering including strutt	ing, pro	opping etc.	and remov	al of form	for :for wall		
		Distribution Channel - Left Outside	1	9.05		1.60	14.48		
		Distribution Channel - Left Inside	1	8.65		1.40	12.11		
		Grit Chamber - Long L&R Outside	2	7.65		1.60	24.48		
		Grit Chamber - Long U&D Outside	2	4.15		1.60	13.28		
		Grit Chamber - Inside	8	3.65		1.40	40.88		
		Distribution Channel - Right Outside	1	9.55		1.60	15.28		
		Distribution Channel - Right Inside	1	9.15		1.40	12.81		
		Screen Channel - Outside	2	7.00		1.20	16.80		
		Screen Channel - Inside	6	7.00		1.00	42.00		
		Receiving Chamber - Outside	1	12.60		2.70	34.02		
		Receiving Chamber - Inside	1	11.00		2.50	27.50		
		Parshall Flume with Distribution Chamber - Long Wall Outside	2	5.60		1.40	15.68		
		Parshall Flume with Distribution Chamber - Long Wall Inside	2	5.20		1.40	14.56		
			2	3.00		1.40	8.40		

		Parshall Flume with Distribution Chamber - Short Wall Outside	1	2.26		1.40	3.16		
		Parshall Flume with Distribution Chamber - Short Wall Inside	3	1.86		1.40	7.81		
		Total					303.26	m²	
		Say		303.26	m²	@ Rs.	553.06	/m²	167718.00
16	5.9.3	Centering and shuttering including strut	ting, pr	opping etc	. and remov	val of form	for :slab		
		Grit Chamber	1	5.60	9.50		53.20		
		Screen Channel	1	7.00	2.90		20.30		
		Receiving Chamber	1	4.40	2.90		12.76		
		Parshall Flume with Distribution Chamber	1	5.60	2.26		12.66		
		Edge	1	60.96		0.20	12.19		
		Total					111.11	m²	
		Say		111.11	m²	@ Rs.	616.90	/m	68542.00
17	22.23.1	Providing and applying integral crystalling to the RCC structures like retaining walks sewage & water treatment plant, tunner ratio of 5 : 2 (5 parts integral crystalline integral crystalline slurry : 1 part water) (internal) side with the help of synthet specified in ACI-212-3R-2010 i.e by red with control concrete as per DIN 1048 a The crystalline slurry shall be capable of be carried out all complete as per specifi performance shall carry guarantee for @0.70 kg per sqm	s of the els / su e slurry) for hc tic fibe ucing p and res self-he cation	basement bway and : 2 parts w orizontal su r brush. Th permeabilit istant to 1 aling of cra and the dir	, water tan bridge dec water) for w infaces and he materia cy of concru 6 bar hydro acks up to a rection of th	iks, roof sla k etc., prej vertical surf applying tl shall mee ete by mor ostatic pres width of 0 ne engineer	bs, podiums, pared by mix faces and 3 : he same from et the require re than 90% ssure on nega 0.50mm. The rin-charge. Th	reservior, ing in the 1 (3 parts n negative ements as compared ative side. work shall he product	
		Distribution Channel - Left Inside	1	8.65		1.40	12.11		
		Grit Chamber - Inside	8	3.65		1.40	40.88		

		Distribution Channel - Right Inside	1	9.15		1.40	12.81		
		Screen Channel	6	7.00		1.00	42.00		
		Receiving Chamber - Inside	1	11.00		2.50	27.50		
		Parshall Flume with Distribution Chamber - Long Wall Inside	2	5.20		1.40	14.56		
			2	3.00		1.40	8.40		
		Parshall Flume with Distribution Chamber - Short Wall Inside	3	1.86		1.40	7.81		
		Total					135.30	m²	
		Say		135.30	m²	@ Rs.	683.80	/m²	92518.00
18	22.23.2	Providing and applying integral crystalling to the RCC structures like retaining walk sewage & water treatment plant, tunner ratio of 5 : 2 (5 parts integral crystalling integral crystalline slurry : 1 part water (internal) side with the help of synther specified in ACI-212-3R-2010 i.e by red with control concrete as per DIN 1048 a The crystalline slurry shall be capable of be carried out all complete as per specific performance shall carry guarantee for 1 @1.10 kg per sqm.	s of the els / su e slurry) for ho tic fibe ucing p and res self-he ication 10 years	e basement bway and : 2 parts w prizontal su r brush. Th permeabilit istant to 1 paling of cra and the dir s against a	, water tan bridge dec water) for v irfaces and he material cy of concre 6 bar hydro acks up to a rection of th ny leakage.	ks, roof sla k etc., prep rertical surf applying th shall mee ete by mor ostatic pres width of 0 ne engineer	bs, podiums, pared by mix faces and 3 : ne same from et the require to the requir	reservior, ing in the 1 (3 parts n negative ements as compared ative side. work shall ne product one coat	
		Distribution Channel - Left	1	7.65	0.50		3.83		
		Grit Chamber	2	3.65	3.65		26.65		
		Distribution Channel - Right	1	7.65	0.75		5.74		
		Screen Channel	2	7.00	0.45		6.30		
		Screen Channel	1	7.00	0.40		2.80		
		Receiving Chamber	1	4.00	1.50		6.00		
		Parshall Flume with Distribution Chamber - Base Inside	1	5.20	1.86		9.67		

		Total					60.98 m ²	
		Say		60.98	m²	@ Rs.	529.32 /m²	32278.00
19	13.7.1	12 mm cement plaster finished with a flo	oating (coat of nea	t cement o	f mix : 1:3 (1 cement: 3 fine sand)	
		Wall						
		Distribution Channel - Left Inside	1	8.65		1.40	12.11	
		Grit Chamber - Inside	8	3.65		1.40	40.88	
		Distribution Channel - Right Inside	1	9.15		1.40	12.81	
		Screen Channel	6	7.00		1.00	42.00	
		Receiving Chamber - Inside	1	11.00		2.50	27.50	
		Parshall Flume with Distribution Chamber - Long Wall Inside	2	5.20		1.40	14.56	
			2	3.00		1.40	8.40	
		Parshall Flume with Distribution Chamber - Short Wall Inside	3	1.86		1.40	7.81	
		Base						
		Distribution Channel - Left	1	7.65	0.50		3.83	
		Grit Chamber	2	3.65	3.65		26.65	
		Distribution Channel - Right	1	7.65	0.75		5.74	
		Screen Channel	2	7.00	0.45		6.30	
		Screen Channel	1	7.00	0.40		2.80	
		Receiving Chamber	1	4.00	1.50		6.00	
		Parshall Flume with Distribution Chamber - Base Inside	1	5.20	1.86		9.67	
		Total					227.05	
		Say		227.05	m²	@ Rs.	331.31 /m²	75224.00
20	13.52.2	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On concrete work						
		Distribution Channel - Left Outside	1	9.05		1.60	14.48	
	1							

		(Rupees Twenty	Three	Lakhs Eigh	nty Six Thou	usand Only)		
		Grand Total						2386000
21	LS	Unforeseen Items						122.00
		say	137.2	2 m²	@ Rs.	181.87	/1m ²	24950.00
		Total					137.18	
		Chamber - Short Wall Outside	1	2.20		1.40	5.10	
		Parshall Flume with Distribution	1	2.26		1 40	3.16	
		Chamber - Long Wall Outside	2	5.60		1.40	15.68	
		Parshall Flume with Distribution						
		Receiving Chamber - Outside	1	12.60		2.70	34.02	
		Screen Channel - Outside	2	7.00		1.20	16.80	
		Distribution Channel - Right Outside	1	9.55		1.60	15.28	
		Grit Chamber - Long U&D Outside	2	4.15		1.60	13.28	
		Grit Chamber - Long L&R Outside	2	7.65		1.60	24.48	

		CONSTRUCTION OF 5 MLD SEWAG	GE TREA	TMENT PL	ANT AT ELA	MKULAM,	КОСНІ					
		Equalization Ta	nk (14.5	m Dia x 4.	5m Height)							
item no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount			
1	2.6.1	(exceeding 30cm in depth, 1.5m in wid	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth, lead up to 50m and lift up to 1.5m, as directed by Engineer-in-Charge.									
			3.14	7.95	7.95	1.5	297.68					
		Total					297.68	m ³				
		say		297.68	m³	@ Rs.	183.99	/1m³	54769.00			
2	2.6.1+2.26.1	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials. Ordinary Rock										
			3.14	7.95	7.95	1.6	317.53					
		Total					317.53	m³				
		Say		317.53	m ³	@ Rs.	259.58	/m³	82426.00			
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									
		For tank	3.14	7.95	7.95	0.10	19.85					
		Deduction Piles	84.78	0.38	0.38	0.10	1.19					
		Total					18.65	m ³				
		Say		18.65	m ³	@ Rs.	7033.09		131191.00			

		Providing and laying in position ready	mixed	M-30 grad	le concrete	for reinfo	prced cement concrete					
		work, using Sulphate Resistant Cemen		0								
				•	••	•						
		automatic batching plant and transpo										
	OBS DATA	continuous agitated mixer, manufacture	•			-						
4	BASED ON	concrete work, including pumping of R.N					-					
	5.37.1+5.34.1	proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without										
	impairing strength and durability as per direction of the Engineer - in - charge. (Note :- Cement content											
	considered in this item is @ 340 kg/cum. Excess/less cement used as per design mix is payable/											
		recoverable separately). All works upto plinth level										
		for bottom slab	3.14	7.85	7.85	1.00	193.49					
		side wall alround	3.14	15.10	0.30	2.00	28.45					
		Total					221.94 m³					
		say		221.94	m³	@ Rs.	11202.53 /1m ³	2486272.00				
		Providing and laying in position ready mixed M-30 grade concrete for reinforced cement concrete										
		work, using Sulphate Resistant Cement content as per approved design mix, manufactured in fully										
		automatic batching plant and transpo	orted to	site of v	vork in tra	ansit mixer	for all leads, having	5				
		continuous agitated mixer, manufacture	ed as po	er mix desi	gn of spec	ified grade	for reinforced cemen	t				
	OBS DATA	concrete work, including pumping of R.N	И.С. fro	m transit r	nixer to site	e of laving	, , excluding the cost o	f				
5	BASED ON	centering, shuttering finishing and rei					-					
•		proportions as per IS : 9103 to acceler			-							
	5.57.2 5.54.1	impairing strength and durability as per			-	•	•					
		considered in this item is @ 340 kg/c			-							
		recoverable separately). All works above		-		•						
		l	: piintii	ievei upto		-						
			244	45.4	0.00	2.5	25.50					
		side wall alround	3.14	15.1	0.30	2.5	35.56					
		Total					35.56 m³					
		say		35.56	m³	@ Rs.	12355.58 /1m ³	439371.00				

	OBS DATA	Epoxy Coated Steel reinforcemen	t for R.C.C. w	ork includi	ng straight	ening, cutti	ng, bending,	placing in			
6	BASED ON	position and binding all complete	upto plinth le	evel.							
	5.22.6										
		quantity as per item no 3		221.94	120	kg/m³	26632.61	Kg			
		quantity as per item no 4		35.56	120	kg/m³	4267.26	Kg			
		Total					30899.87	Kg			
		say		30899.87	kg	@ Rs.	89.82	/Kg	2775426.00		
3	4.12	Extra for providing and mixing wa	ter proofing	material in	cement co	oncrete worl	k in doses by	weight of	-		
3	4.12	cement as per manufacturer's spe	ecification.								
		quantity as per item no 3		221.94	340	kg/m³	75459.06				
		quantity as per item no 4		35.56	340	kg/m³	12090.57	Kg			
		Total					87549.63	Kg			
						50kg/bag	1750.99	bag			
		say		1750.99	Bags	@ Rs.	70.05	/bag	122649.00		
4	5.9.1	Centering and shuttering including strutting, propping etc. and removal of form for :mass concrete.									
		Raft Slab	1	3.14	15.7	1	49.3				
		Total					49.3	m²			
		Say		49.3	m²	@ Rs.	283.32	/m²	13968.00		
5	5.9.2	Centering and shuttering including	g strutting, pr	opping etc	. and remo	val of form	for :for wall				
		outside alround	1	3.14	15.10	4.50	213.36				
		inside	1	3.14	14.50	4.50	204.89				
		Total					418.25	m²			
		Say		418.25	m²	@ Rs.	553.06	/m²	231316.00		

6	22.23.1	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservior, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineerin-charge. The product performance shall carry guarantee for 10 years against any leakage. For vertical surface two coats @0.70 kg per sqminside wall13.1414.504.50204.89										
		Total					204.89 m ²					
		Say		204.89	m²	@ Rs.	683.80 /m²	140100.00				
7	22.23.2	Providing and applying integral crystalling to the RCC structures like retaining walk sewage & water treatment plant, tunner ratio of 5 : 2 (5 parts integral crystalling integral crystalline slurry : 1 part water (internal) side with the help of synther specified in ACI-212-3R-2010 i.e by red with control concrete as per DIN 1048 a The crystalline slurry shall be capable of be carried out all complete as per specific performance shall carry guarantee for 1 @1.10 kg per sqm.	s of the els / su e slurry) for ho tic fibe lucing p and res self-he ication LO years	basement bway and : 2 parts v prizontal su r brush. Th permeabilit istant to 1 aling of cra and the dir s against a	, water tan bridge dec vater) for v rfaces and ne material y of concre 6 bar hydro acks up to a ection of th ny leakage	ks, roof sla k etc., pre vertical surf applying th shall mee ete by mor ostatic pres width of 0 ne engineer . For horiz	bs, podiums, reservior, pared by mixing in the faces and 3 : 1 (3 parts the same from negative et the requirements as re than 90% compared ssure on negative side. 50mm. The work shall rin-charge. The product ontal surface one coat					
		bottom slab top	1	3.14	7.25	7.25	165.05 165.05 m²					
		Total			87362.00							
		Say 165.05 m ² @ Rs. 529.32 /m ²										

8	13.7.1	12 mm cement plaster finished with a fl	oating	coat of nea	t cement o	f mix : 1:3 (1 cement: 3 f	ine sand)	
		Inside wall	1	3.14	14.50	4.50	204.89		
		Bottom slab top	1	3.14	7.25	7.25	165.05		
		Outside Wall Around	1	3.14	15.10	4.50	213.36		
		Total					583.29		
		Say		583.29	m²	@ Rs.	331.31	/m²	193251.00
9	13.52.2	Finishing with Epoxy paint (two or manufacturer's specifications includin complete. On concrete work		-				-	
		Outside Wall Around	1	3.14	15.10	2.50	118.54		
		Total					118.54		
		say	118.5	m²	@ Rs.	181.87	/1m ²		21558.00
10	LS	Unforeseen Items							341.00
		Grand Total		6780000					
		(Rupees Sixty							

		CONSTRUCTION OF 5 MLD SEWAG	SE TREA	TMENT PL	ANT AT ELA	MKULAM,	КОСНІ				
		MBBR TANK -	01 (9m	Dia x 4.5m	Height)						
item no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount		
1	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth, lead up to 50m and lift up to 1.5m,as directed by Engineer-in-Charge.									
			3.14	5.20	5.20	0.85	72.17				
		Total					72.17	m ³			
		say		72.17	m³	@ Rs.	183.99	/1m³	13278.00		
2	4.1.6	Providing and laying in position cement shuttering - All work up to plinth level : mm nominal size).		•	•	•		•			
		For tank	3.14	5.20	5.20	0.10	8.49				
		Deduction Piles	43.96	0.30	0.30	0.10	0.40				
		Total					8.09	m ³			
		Say		8.09	m ³	@ Rs.	7033.09	/m³	56932.00		
3	OBS DATA BASED ON 5.37.2+5.34.1	Providing and laying in position ready work, using Sulphate Resistant Cemer automatic batching plant and transpo- continuous agitated mixer, manufactur concrete work, including pumping of R. centering, shuttering finishing and re proportions as per IS : 9103 to accele impairing strength and durability as per considered in this item is @ 340 kg/o recoverable separately). All works above	nt conte orted to ed as po M.C. fro inforcer rate/ re directio cum. Ex	ent as per o site of v er mix des om transit r ment, inclu etard settir on of the Er cess/less o	approved overk in traising of spect nixer to situding cost of concringineer - in cement use	design mix, ansit mixer ified grade e of laying of admixt ete, impro- - charge. (I ed as per o	manufacture for all lead for reinforce , , excluding t ures in reco ve workabilit Note :- Ceme	ed in fully ds, having ed cement he cost of mmended y without nt content			
		for bottom slab	3.14	5.10	5.10	0.75	61.25				
		side wall alround	3.14	4.80	0.30	4.50	20.35				

		Total					81.60	m ³	
		say		81.60	m³	@ Rs.	12355.58	/1m³	1008181.00
	OBS DATA	Epoxy Coated Steel reinforcemen	t for R.C.C. w	ork includi	ng straight	ening, cutti	ng, bending,	placing in	
2	BASED ON	position and binding all complete	upto plinth le	vel.					
	5.22.6								
		quantity as per item no 1		81.60	120	kg/m³	9791.66		
		Total					9791.66	Kg	
		say		9791.66	kg	@ Rs.	89.82	/Kg	879487.00
3	4.12	Extra for providing and mixing wa cement as per manufacturer's spe			Γ	1 1		-	
		quantity as per item no 1		81.60	340	kg/m³	27743.05	Kg	
		Total					27743.05	Kg	
						50kg/bag	554.86	bag	
		say		554.86	Bags	@ Rs.	70.05	/bag	38865.00
4	5.9.1	Centering and shuttering including	g strutting, pr	opping etc	. and remo	val of form	for :mass con	icrete.	
		Raft Slab	1	3.14	10.2	0.75	24.02		
		Total					24.02	m²	
		Say		24.02	m²	@ Rs.	283.32	/m²	6805.00
5	5.9.2	Centering and shuttering including	g strutting, pr	opping etc	. and remo	val of form	for :for wall		
		outside alround	1	3.14	9.60	4.50	135.65		
		inside	1	3.14	9.00	4.50	127.17		
		Total					262.82	m²	
		Say		262.82	2	@ Rs.	553.06	1.2	145354.00

6	22.23.1	Providing and applying integral crystalling to the RCC structures like retaining walk sewage & water treatment plant, tunner ratio of 5 : 2 (5 parts integral crystalline integral crystalline slurry : 1 part water (internal) side with the help of synther specified in ACI-212-3R-2010 i.e by red with control concrete as per DIN 1048 a The crystalline slurry shall be capable of be carried out all complete as per specifi performance shall carry guarantee for @0.70 kg per sqm inside wall	s of the els / su e slurry) for ho tic fibe ucing p and res self-he ication 10 yea	e basement bway and : 2 parts v prizontal su r brush. Th permeabilit istant to 1 paling of cra and the dir rs against	, water tan bridge dec vater) for v rfaces and ne material y of concre 6 bar hydro acks up to a ection of th	ks, roof sla k etc., pre- vertical surf applying th shall mee ete by mor ostatic pres width of 0 ne engineer e. For vert	bs, podiums, reservior, pared by mixing in the faces and 3 : 1 (3 parts the same from negative et the requirements as re than 90% compared ssure on negative side. 50mm. The work shall rin-charge. The product cical surface two coats				
		Total									
		Say		127.17	m²	@ Rs.	683.80 /m ²	86959.00			
7	22.23.2	Providing and applying integral crystalling to the RCC structures like retaining walk sewage & water treatment plant, tunner ratio of 5 : 2 (5 parts integral crystalline integral crystalline slurry : 1 part water (internal) side with the help of synthe specified in ACI-212-3R-2010 i.e by red with control concrete as per DIN 1048 The crystalline slurry shall be capable of be carried out all complete as per specifi performance shall carry guarantee for 1 @1.10 kg per sqm.	s of the els / su e slurry) for ho tic fibe ucing p and res self-he ication LO year	e basement bway and : 2 parts v prizontal su r brush. Th permeabilit istant to 1 paling of cra and the dir s against a	, water tan bridge dec vater) for v rfaces and ne material y of concre 6 bar hydro acks up to a ection of th ny leakage	ks, roof sla k etc., pre- vertical surf applying th shall mee ete by mor ostatic pres width of 0 ne engineer . For horiz	bs, podiums, reservior, pared by mixing in the faces and 3 : 1 (3 parts he same from negative et the requirements as re than 90% compared ssure on negative side. 50mm. The work shall rin-charge. The product ontal surface one coat				
		bottom slab top	1	3.14	4.50	4.50	63.59				
		Total					63.59 m ²	33657.00			
		Say	Say 63.59 m ² @ Rs. 529.32 /m ²								

8	13.7.1	12 mm cement plaster finished with a fl	oating	coat of nea	t cement o	f mix : 1:3(1	. cement: 3 fine	sand)	
		Inside wall	1	3.14	9.00	4.5	127.17		
		Bottom slab top	1	3.14	4.50	4.50	63.59		
		Outside Wall Around	1	3.14	9.60	4.50	135.65		
		Total					326.40		
		Say		326.40	m²	@ Rs.	331.31	/m²	108140.00
9	13.52.2	Finishing with Epoxy paint (two or manufacturer's specifications includin complete. On concrete work		-					
		Outside Wall Around	1	3.14	9.60	4.50	135.65		
		Total					135.65		
		say	135.6	m²	@ Rs.	181.87	/1m ²		24670.00
10	LS	Unforeseen Items							7672.00
		Grand Total		•	1		<u>+</u>		2410000
		(Rupees Twe	nty Fo	ur Lakhs Te	n Thousan	d Only)			

		CONSTRUCTION OF 5 MLD SEWAG	GE TREA	TMENT PL	ANT AT ELA	MKULAM,	КОСНІ				
		MBBR TANK -	01 (9m	Dia x 4.5m	Height)						
item no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount		
1	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth, lead up to 50m and lift up to 1.5m,as directed by Engineer-in-Charge.									
			3.14	5.20	5.20	0.85	72.17				
		Total					72.17	m ³			
		say		72.17	m³	@ Rs.	183.99	/1m³	13278.00		
2	4.1.6	Providing and laying in position cement shuttering - All work up to plinth level : mm nominal size).		•	•	•		•			
		For tank	3.14	5.20	5.20	0.10	8.49				
		Deduction Piles	43.96	0.30	0.30	0.10	0.40				
		Total					8.09	m ³			
		Say		8.09	m ³	@ Rs.	7033.09	/m³	56932.00		
3	OBS DATA BASED ON 5.37.2+5.34.1	Providing and laying in position ready work, using Sulphate Resistant Cemer automatic batching plant and transpo- continuous agitated mixer, manufactur concrete work, including pumping of R. centering, shuttering finishing and re proportions as per IS : 9103 to accele impairing strength and durability as per considered in this item is @ 340 kg/o recoverable separately). All works above	nt conte orted to ed as po M.C. fro inforcer rate/ re directio cum. Ex	ent as per o site of v er mix des om transit r ment, inclu etard settir on of the Er cess/less o	approved ovork in traising of spect nixer to situding cost og of concr ngineer - in cement use	design mix, ansit mixer ified grade e of laying of admixt ete, impro- - charge. (I ed as per o	manufacture for all lead for reinforce , , excluding t ures in reco ve workabilit Note :- Ceme	ed in fully ds, having ed cement he cost of mmended y without nt content			
		for bottom slab	3.14	5.10	5.10	0.75	61.25				
		side wall alround	3.14	4.80	0.30	4.50	20.35				

		Total					81.60	m ³	
		say		81.60	m³	@ Rs.	12355.58	/1m³	1008181.00
	OBS DATA	Epoxy Coated Steel reinforcemen	t for R.C.C. w	ork includi	ng straight	ening, cutti	ng, bending,	placing in	
2	BASED ON	position and binding all complete	upto plinth le	vel.					
	5.22.6								
		quantity as per item no 1		81.60	120	kg/m³	9791.66		
		Total					9791.66	Kg	
		say		9791.66	kg	@ Rs.	89.82	/Kg	879487.00
3	4.12	Extra for providing and mixing wa cement as per manufacturer's spe			Γ	1 1		-	
		quantity as per item no 1		81.60	340	kg/m³	27743.05	Kg	
		Total					27743.05	Kg	
						50kg/bag	554.86	bag	
		say		554.86	Bags	@ Rs.	70.05	/bag	38865.00
4	5.9.1	Centering and shuttering including	g strutting, pr	opping etc	. and remo	val of form	for :mass con	icrete.	
		Raft Slab	1	3.14	10.2	0.75	24.02		
		Total					24.02	m²	
		Say		24.02	m²	@ Rs.	283.32	/m²	6805.00
5	5.9.2	Centering and shuttering including	g strutting, pr	opping etc	. and remo	val of form	for :for wall		
		outside alround	1	3.14	9.60	4.50	135.65		
		inside	1	3.14	9.00	4.50	127.17		
		Total					262.82	m²	
		Say		262.82	2	@ Rs.	553.06	1.2	145354.00

6	22.23.1	Providing and applying integral crystalling to the RCC structures like retaining walk sewage & water treatment plant, tunner ratio of 5 : 2 (5 parts integral crystalline integral crystalline slurry : 1 part water (internal) side with the help of synther specified in ACI-212-3R-2010 i.e by red with control concrete as per DIN 1048 a The crystalline slurry shall be capable of be carried out all complete as per specifi performance shall carry guarantee for @0.70 kg per sqm inside wall	s of the els / su e slurry) for ho tic fibe ucing p and res self-he ication 10 yea	e basement bway and : 2 parts v prizontal su r brush. Th permeabilit istant to 1 paling of cra and the dir rs against	, water tan bridge dec vater) for v rfaces and ne material y of concre 6 bar hydro acks up to a ection of th	ks, roof sla k etc., pre vertical surf applying th shall mee ete by mor ostatic pres width of 0 ne engineer e. For vert	bs, podiums, reservior, pared by mixing in the faces and 3 : 1 (3 parts the same from negative et the requirements as re than 90% compared ssure on negative side. 50mm. The work shall rin-charge. The product cical surface two coats				
		Total									
		Say		127.17	m²	@ Rs.	683.80 /m ²	86959.00			
7	22.23.2	Providing and applying integral crystalling to the RCC structures like retaining walk sewage & water treatment plant, tunner ratio of 5 : 2 (5 parts integral crystalline integral crystalline slurry : 1 part water (internal) side with the help of synthe specified in ACI-212-3R-2010 i.e by red with control concrete as per DIN 1048 The crystalline slurry shall be capable of be carried out all complete as per specifi performance shall carry guarantee for 1 @1.10 kg per sqm.	s of the els / su e slurry) for ho tic fibe ucing p and res self-he ication LO year	e basement bway and : 2 parts v prizontal su r brush. Th permeabilit istant to 1 paling of cra and the dir s against a	, water tan bridge dec vater) for v rfaces and ne material y of concre 6 bar hydro acks up to a ection of th ny leakage	ks, roof sla k etc., pre- vertical surf applying th shall mee ete by mor ostatic pres width of 0 ne engineer . For horiz	bs, podiums, reservior, pared by mixing in the faces and 3 : 1 (3 parts he same from negative et the requirements as re than 90% compared ssure on negative side. 50mm. The work shall rin-charge. The product ontal surface one coat				
		bottom slab top	1	3.14	4.50	4.50	63.59				
		Total					63.59 m ²	33657.00			
		Say	Say 63.59 m ² @ Rs. 529.32 /m ²								

8	13.7.1	12 mm cement plaster finished with a fl	oating	coat of nea	t cement o	f mix : 1:3(1	. cement: 3 fine	sand)	
		Inside wall	1	3.14	9.00	4.5	127.17		
		Bottom slab top	1	3.14	4.50	4.50	63.59		
		Outside Wall Around	1	3.14	9.60	4.50	135.65		
		Total					326.40		
		Say		326.40	m²	@ Rs.	331.31	/m²	108140.00
9	13.52.2	Finishing with Epoxy paint (two or manufacturer's specifications includin complete. On concrete work		-					
		Outside Wall Around	1	3.14	9.60	4.50	135.65		
		Total					135.65		
		say	135.6	m²	@ Rs.	181.87	/1m ²		24670.00
10	LS	Unforeseen Items							7672.00
		Grand Total		•	ł		<u>+</u>		2410000
		(Rupees Twe	nty Fo	ur Lakhs Te	n Thousan	d Only)			

		CONSTRUCTION OF 5 MLD SE	WAGE TREAT	MENT PL	ANT AT ELA	MKULAM,	КОСНІ			
		CLARI	FIER (14m Dia	x 4.0m H	eight)					
item no	Item Code	Description	No L		В	Н	Quantity	Unit	Amount	
1	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth, lead up to 50m and lift up to 1.5m, as directed by Engineer-in-Charge.								
			3.14	7.70	7.70	1.10	204.79			
		Total					204.79	m ³		
		say		204.79	m³	@ Rs.	183.99	/1m³	37679.00	
2	4.1.6	Providing and laying in position cer shuttering - All work up to plinth lo mm nominal size).		•	•	•		0		
		For tank	3.14	7.70	7.70	0.10	18.62			
		Deduction Piles	72.22	0.38	0.38	0.10	1.02			
		Total					17.60	m ³		
		Say		17.60	m ³	@ Rs.	7033.09	/m³	123793.00	
3	OBS DATA BASED ON 5.37.2+5.34.1	Providing and laying in position r work, using Sulphate Resistant C automatic batching plant and tr continuous agitated mixer, manuf- concrete work, including pumping centering, shuttering finishing ar proportions as per IS : 9103 to a impairing strength and durability a considered in this item is @ 340 recoverable separately). All works	ement conter ansported to actured as per of R.M.C. from d reinforcem ccelerate/ ret s per direction kg/cum. Exc	nt as per site of w r mix desi n transit r nent, inclu ard settir n of the Er ess/less o	approved overk in traising of spect nixer to situating cost of of concr ngineer - in cement use	design mix, ansit mixer ified grade e of laying of admixt ete, impro- - charge. (I ed as per o	manufacture for all leac for reinforce , , excluding t ures in reco ve workabilit Note :- Cemer	ed in fully ls, having ed cement he cost of mmended y without nt content		
		for bottom slab	3.14	7.60	7.60	1.00	181.37			

		side wall alround	3.14	7.60	0.30	4.00	28.64		
		Total					210.01	m³	
		say		210.01	m³	@ Rs.	12355.58	/1m³	2594756.00
	OBS DATA	Epoxy Coated Steel reinforcement	for R.C.C. w	ork includi	ng straight	ening, cuttii	ng, bending,	placing in	
2	BASED ON	position and binding all complete u	pto plinth le	vel.					
	5.22.6								
		quantity as per item no 1		210.01	120	kg/m³	25200.82		
		Total					25200.82	Kg	
		say		25200.82	kg	@ Rs.	89.82	/Kg	2263538.00
3	4.12	Extra for providing and mixing wate cement as per manufacturer's spec		naterial in	cement co	ncrete work	c in doses by	weight of	
		quantity as per item no 1		210.01	340	kg/m³	71402.31	Kg	
		Total					71402.31	Kg	
						50kg/bag	1428.05	bag	
		say		1428.05	Bags	@ Rs.	70.05	/bag	100028.00
4	5.9.1	Centering and shuttering including	strutting, pr	opping etc.	and remov	val of form f	for :mass con	crete.	
		Raft Slab	1	3.14	15.20	1.00	47.73		
		Total					47.73	m²	
		Say		47.73	m²	@ Rs.	283.32	/m²	13523.00
5	5.9.2	Centering and shuttering including	strutting, pr	opping etc.	and remov	val of form f	for :for wall		
		outside alround	1	3.14	14.60	4.00	183.38		
		inside	1	3.14	14.00	4.00	175.84		
		Total					359.22	m²	
		Say		359.22	m²	@ Rs.	553.06	/m²	198668.00

6	22.23.1	Providing and applying integral crystalli to the RCC structures like retaining wall sewage & water treatment plant, tunn ratio of 5 : 2 (5 parts integral crystalline integral crystalline slurry : 1 part water (internal) side with the help of synthe specified in ACI-212-3R-2010 i.e by red with control concrete as per DIN 1048 The crystalline slurry shall be capable of be carried out all complete as per specif performance shall carry guarantee for @0.70 kg per sqm	s of the els / su e slurry) for ho tic fibe lucing p and res self-he ication 10 yea	basement bway and : 2 parts w rizontal su r brush. Th bermeabilit istant to 1 aling of cra and the dir rs against	, water tan bridge dec water) for v infaces and he material y of concre 6 bar hydro acks up to a rection of th any leakag	ks, roof sla k etc., pre vertical sur applying t shall mee ete by mor ostatic pres width of C ne engineer e. For vert	bs, podiums, reservior, pared by mixing in the faces and 3 : 1 (3 parts he same from negative et the requirements as re than 90% compared ssure on negative side. 0.50mm. The work shall rin-charge. The product tical surface two coats	
		inside wall Total	1	3.14	14.00	4	175.84 175.84 m ²	
		Say		175.84	m²	@ Rs.	683.80 /m ²	120239.00
7	22.23.2	Providing and applying integral crystalli to the RCC structures like retaining wall sewage & water treatment plant, tunn ratio of 5 : 2 (5 parts integral crystalline integral crystalline slurry : 1 part water (internal) side with the help of synthe specified in ACI-212-3R-2010 i.e by red with control concrete as per DIN 1048 The crystalline slurry shall be capable of be carried out all complete as per specif performance shall carry guarantee for 2 @1.10 kg per sqm.	s of the els / su e slurry) for ho tic fibe lucing p and res self-he ication 10 year	basement bway and : 2 parts w orizontal su r brush. Th permeabilit istant to 1 aling of cra and the dir s against a	, water tan bridge dec water) for v infaces and he material cy of concre 6 bar hydro acks up to a rection of th ny leakage	ks, roof sla k etc., preventical sur- applying the shall meet to shall meet by more static prevention width of Contending to engineet for horiz	bs, podiums, reservior, pared by mixing in the faces and 3 : 1 (3 parts he same from negative et the requirements as re than 90% compared ssure on negative side. 0.50mm. The work shall rin-charge. The product ontal surface one coat	
		bottom slab top	1	3.14	7.00	7.00	153.86	
		Total Say		153.86	m²	@ Rs.	153.86 m ² 529.32 /m ²	81441.00

8	13.7.1	12 mm cement plaster finished with a fl	oating	coat of nea	t cement c	of mix : 1:3 (1 cement: 3 f	ine sand)	
		Inside wall	1	3.14	14.00	4.00	175.84		
		Bottom slab top	1	3.14	7.00	7.00	153.86		
		Outside Wall Around	1	3.14	14.60	4.00	183.38		
		Total					513.08		
		Say		513.08	m²	@ Rs.	331.31	/m²	169987.00
9	13.52.2	Finishing with Epoxy paint (two or manufacturer's specifications includin complete. On concrete work						-	
		Outside Wall Around	1	3.14	14.60	4.00	183.38		
		Total					183.38		
		say	183.4	m²	@ Rs.	181.87	/1m ²		33351.00
10	LS	Unforeseen Items							997.00
		Grand Total					•		5738000
		(Rupees Fifty Se	even La	khs Thirty	Eight Thou	sand Only)			

		CONSTRUCTION OF 5 MLD SEWAG	E TREA	TMENT PL	ANT AT ELA	MKULAM,	КОСНІ		
		Sludge Sump (3.75m	Dia x 2.5m	Height)				
item no	Item Code	Description	No	L	В	н	Quantity	Unit	Amount
1	2.8.1	Earth work in excavation by mechanica trenches or drains (not exceeding 1.5 n ramming of bottoms, lift up to 1.5 m, ir excavated soil as directed, within a lead	n in wie ncluding	dth or 10 s g getting o	sqm on pla ut the exca	n) including	g dressing of	sides and	
		For tank	3.14	2.525		1.50	30.03		
		Total					30.03	m³	
		Say		30.03	m³	@ Rs.	243.08	/m³	7299.00
2	2.8.1+2.26.1	Extra for every additional lift of 1.5 m materials. All Kinds of Soil	or par	t thereof i	n excavatio	on /banking	g excavated o	or stacked	
		For tank	3.14	2.525	2.525	1.40	28.03		
		Total					28.03	m³	
		Say		28.03	m³	@ Rs.	318.67	/m³	8932.00
3	4.1.6	Providing and laying in position cement shuttering - All work up to plinth level : mm nominal size).		•	-	-		-	
		For tank	3.14	2.525	2.525	0.10	2.00		
		Total					2.00	m³	
		Say		2.00	m³	@ Rs.	7033.09	/m³	14080.00

4	OBS DATA BASED ON 5.37.1+5.34.1	Providing and laying in position ready work, using Sulphate Resistant Cemen automatic batching plant and transpo- continuous agitated mixer, manufacture concrete work, including pumping of R.M centering, shuttering finishing and rei proportions as per IS : 9103 to acceler impairing strength and durability as per considered in this item is @ 340 kg/c recoverable separately). All works upto	t conte orted to ed as pe M.C. fro nforcer rate/ re directio um. Ex	nt as per a site of v er mix desi m transit n nent, inclu tard settin on of the Er cess/less c	approved c vork in tra gn of speci nixer to site Iding cost Ig of concr ngineer - in	lesign mix, ansit mixer ified grade e of laying of admixtu ete, impro - charge. (I	manufacture for all lead for reinforce , , excluding th ures in recor ve workability Note :- Cemer	ed in fully s, having d cement he cost of mmended y without ht content	
		for bottom slab	3.14	2.425	2.425	0.3	5.54		
		side wall alround	3.14	2.125	2.125	2.5	35.45		
		Deduction							
		side wall alround	3.14	1.875	1.875	2.5	27.60		
		Total					13.39		
		say		13.39		@ Rs.	11202.53	-	150002.00
5	5.37.1	Providing and laying in position ready work, using cement content as per app plant and transported to site of work in manufactured as per mix design of spo pumping of R.M.C. from transit mixer to finishing and reinforcement, including co to accelerate/ retard setting of concrete as per direction of the Engineer - in - ch kg/cum. Excess/less cement used as per plinth level Cover Slab	oroved transit coified to site o ost of a , improv arge. (N	design mix mixer for grade for i of laying , dmixtures i ve workabi lote :- Cem	c, manufact all leads, h reinforced , excluding in recomment lity without ent conten	tured in fu naving cont cement co the cost o ended prop t impairing t considere	Ily automatic tinuous agitat ncrete work, of centering, s portions as pen strength and ed in this item	batching ed mixer, including huttering r IS : 9103 durability n is @ 330	
			5.14	2.425	2.425	0.20			
		Doduction					3.69		
		Deduction manhole	1	0.45	0.6	0.15	0.04		
			1	0.45	0.6	0.15			
		total					0.04		

		Total less deduction					3.65		
		Say		3.65	m³	@ Rs.	9807.23	/m³	35821.00
	OBS DATA	Epoxy Coated Steel reinforcemen	t for R.C.C. w	ork includi	ng straight	ening, cutti	ng, bending,	placing in	
6	BASED ON	position and binding all complete	upto plinth le	vel.					
	5.22.6		1					1	
		quantity as per item no 4		13.39	120	Ċ.	1606.8		
		quantity as per item no 5		3.65	100	kg/m³	365.25		
		Total					1972.05	Kg	
		say		1972.05	kg	@ Rs.	89.82	/Kg	177130.00
7	4.12	Extra for providing and mixing wa cement as per manufacturer's spe		naterial in	cement co	ncrete worl	< in doses by	weight of	:
		Quantity as per item no 6		13.39	340	kg/m³	4552.60	Kg	
		Quantity as per item no 7		3.65	330	kg/m³	1205.34	Kg	
		Total					5757.94	Kg	
						50kg/bag	115.16	bag	
		say		115.16	Bags	@ Rs.	70.05	/bag	8066.00
8	5.9.1	Centering and shuttering including	g strutting, pro	opping etc.	and remov	val of form	for :mass cor	icrete.	
		Raft Slab	1	3.14	4.85	0.3	4.57		
		Total					4.57	m²	
		Say		4.57	m²	@ Rs.	283.32	/m²	1295.00
9	5.9.2	Centering and shuttering including	g strutting, pro	opping etc.	. and remov	val of form	for :for wall		
		outside alround	1	3.14	4.25	2.50	33.36		
		inside	1	3.14	3.75	2.50	29.44		
		Total					62.80	m²	
		Say		62.80	m²	@ Rs.	553.06	/m²	34732.00
10	5.9.3	Centering and shuttering including	g strutting, pro	opping etc.	and remov	val of form	for :slab		
		top slab - bottom	1	3.14	1.875	1.875	11.04		
	•		•			· · · · · ·			•

		top slab - side	1	3.14	4.25	0.20	2.67		
		Total					13.71	m²	
		Say		13.71	m²	@ Rs.	616.90	/m	8456.00
11	2.25	Filling available excavated earth (exclud not exceeding 20cm in depth, consolida 50 m and lift up to 1.5 m.	-	-					
		quantity as per item no 1 & 2					58.06		
		Deduction							
		рсс					2.00		
		Base slab					5.54		
		tank including wall	3.14	2.125	2.125	2.5	35.45		
		total					42.99		
		Total less deduction					15.07	m³	
		say		15.07	m³	@ Rs.	183.70	/1m³	2768.00
12	22.23.1	Providing and applying integral crystall to the RCC structures like retaining wal sewage & water treatment plant, tunn ratio of 5 : 2 (5 parts integral crystallin integral crystalline slurry : 1 part water (internal) side with the help of synthe specified in ACI-212-3R-2010 i.e by red with control concrete as per DIN 1048 The crystalline slurry shall be capable of be carried out all complete as per specifi performance shall carry guarantee for @0.70 kg per sqm	Is of the nels / su re slurry r) for ho etic fiber ducing p and res f self-he fication a	basement bway and : 2 parts w rizontal su r brush. Th permeabilit istant to 1 aling of cra and the dir	t, water tan bridge dec water) for w infaces and he materia ty of concre 6 bar hydro acks up to a rection of th	iks, roof sla k etc., prej vertical surf applying th shall mee ete by mor ostatic pres width of 0 ne engineer	bs, podiums, pared by mix faces and 3 : the same from et the require to the require to than 90% of soure on nega 0.50mm. The of tin-charge. The	reservior, ing in the 1 (3 parts n negative ements as compared ative side. work shall he product	
	1		т т				1		
		inside wall	1	3.14	3.75	2.5	29.44		
		inside wall Total	1	3.14	3.75	2.5	29.44 29.44		

13	22.23.1	Providing and applying integral crystalli to the RCC structures like retaining wall sewage & water treatment plant, tunn ratio of 5 : 2 (5 parts integral crystalling integral crystalline slurry : 1 part water (internal) side with the help of synthe specified in ACI-212-3R-2010 i.e by rec with control concrete as per DIN 1048 The crystalline slurry shall be capable of be carried out all complete as per specif performance shall carry guarantee for 3 @1.10 kg per sqm.	s of the els / su e slurry) for ho tic fiber lucing p and res self-he ication a	basement bway and : 2 parts v rizontal su brush. Th ermeabilit istant to 1 aling of cra and the dir s against a	, water tan bridge dec vater) for v rfaces and ne material y of concre 6 bar hydro acks up to a rection of th ny leakage.	ks, roof sla k etc., prep rertical surf applying th shall mee ete by mor ostatic pres width of 0 ne engineer For horizo	bs, podiums, pared by mix faces and 3 : the same from t the require t than 90% of soure on nega .50mm. The v in-charge. Th pontal surface	reservior, ing in the 1 (3 parts n negative ements as compared ative side. work shall e product one coat	
		bottom slab top	1	3.14	1.875	1.875	11.04		
		Total					11.04	m²	
		Say		11.04	m²	@ Rs.	529.32	/m²	5843.00
14	13.7.1	12 mm cement plaster finished with a fl	oating c	oat of nea	t cement of	f mix : 1:3(1	cement: 3 fine	sand)	
		inside wall	1	3.14	3.75	2.5	29.44		
		bottom slab top	1	3.14	1.875	1.875	11.04		
		top slab bottom	1	3.14	1.875	1.875	11.04		
							51.52		
		Deduction							
		manhole	1	0.46	0.61		0.28		
		total					0.28		
		Total less deduction					51.24		
		Say		51.24	m²	@ Rs.	331.31	/m²	16975.00

15	OBS DATA BASED ON	Supplying and fixing D.I. cover v (heavy duty) the weight of the co				: 450x600 mi	m rectangular	DI. cover	
	19.18.3				0				
			1	1.00			1.00	nos	
		say		1.00	nos	@ Rs.	6606.79	/Each	6607.00
16	LS	Unforeseen Items							1865.00
		Grand Total							500000
			(Rupees F	ive Lakhs	Only)				

item no 1 2	Item Code 2.6.1	Sludge Thickene Description Earth work in excavation by mechanic (exceeding 30cm in depth, 1.5m in widt of excavated earth, lead up to 50m and	No cal mea h as we lift up t	L Ins (Hydra ell as 10 sq	B ulic excava	H tor) / man	Quantity	Unit	Amount
1		Earth work in excavation by mechanic (exceeding 30cm in depth, 1.5m in widt of excavated earth, lead up to 50m and	cal mea h as we lift up t	ell as 10 sq	ulic excava			Unit	Amount
	2.6.1	(exceeding 30cm in depth, 1.5m in widt of excavated earth, lead up to 50m and	h as we lift up t	ell as 10 sq		tor) / man			
2				0 1.511,85		including g	etting out an		
2			3.14	3.75	3.75	0.85	37.53		
2		Total					37.53		
2		say		37.53		@ Rs.	183.99	-	6905.00
	4.1.6	Providing and laying in position cement shuttering - All work up to plinth level : mm nominal size).		•	-	-		-	
		For tank	3.14	3.75	3.75	0.10	4.42		
		Deduction Piles	25.12	0.30	0.30	0.10	0.23		
		Total					4.19	m³	
		Say		4.19	m³	@ Rs.	7033.09	/m³	29465.00
3	BASED ON	Providing and laying in position ready work, using Sulphate Resistant Cemen automatic batching plant and transpo continuous agitated mixer, manufacture concrete work, including pumping of R.I centering, shuttering finishing and rei proportions as per IS : 9103 to acceler impairing strength and durability as per considered in this item is @ 340 kg/c recoverable separately). All works above	t conte orted to ed as po M.C. fro inforcer rate/ re directio cum. Ex	ent as per o site of o er mix des om transit i ment, inclu etard settir on of the El cess/less o	approved of work in tra- ign of spec mixer to site uding cost ng of concr ngineer - in cement use floor V leve	design mix, ansit mixer ified grade e of laying of admixto ete, improv - charge. (1 ed as per o	manufacture for all lead for reinforce , excluding t ures in recorve workabilit Note :- Cemer	ed in fully ls, having ed cement he cost of mmended y without nt content payable/	

		side wall alround	3.14	3.35	0.30	3.5	11.04		
		Total					42.41	m³	
		say		42.41	m³	@ Rs.	12355.58	/1m³	524061.00
	OBS DATA	Epoxy Coated Steel reinforcement for	or R.C.C. wo	ork includi	ng straight	ening, cuttii	ng, bending,	placing in	ו
2	BASED ON	position and binding all complete up	to plinth le	vel.					
	5.22.6								
		quantity as per item no 1		42.41	120	kg/m³	5089.79		
		Total					5089.79	Kg	
		say		5089.79	kg	@ Rs.	89.82	/Kg	457165.0
_		Extra for providing and mixing water	proofing r	naterial in	cement co	ncrete work	k in doses by	weight o	f
3	4.12	cement as per manufacturer's specifi	ication.						
		quantity as per item no 1		42.41	340	kg/m³	14421.08	Kg	
		Total					14421.08	Kg	
						50kg/bag	288.42	bag	
		say		288.42	Bags	@ Rs.	70.05	/bag	20203.00
4	5.9.1	Centering and shuttering including st	rutting, pro	opping etc	. and remo	val of form f	for :mass cor	icrete.	
		Raft Slab	1	3.14	7.3	0.3	6.88		
		Total					6.88	m²	
		Say		6.88	m²	@ Rs.	283.32	/m²	1949.00
5	5.9.2	Centering and shuttering including st	rutting, pro	opping etc	. and remo	val of form f	for :for wall	•	
5	51512								
5	51512	Inside	1	3.14	6.20	3.50	68.14		
5		Inside Outside Wall Around	1 1	3.14 3.14	6.20 6.70	3.50 3.50	68.14 73.63		
5									

		Providing and applying integral crystalli to the RCC structures like retaining wall sewage & water treatment plant, tunn	s of the	e basement	, water tan	ks, roof sla	bs, podiums,	reservior,	
		Providing and applying integral crystalli		ry of hydro	philic in na	ture for wa	aterproofing	treatment	
		Say		68.14	m²	@ Rs.	683.80		46593.00
	+	Total	<u>т</u>	5.14	0.20	5.5	68.14		
		inside wall	1	3.14	6.20	3.5	68.14		
		@0.70 kg per sqm							
			10 yea	rs against	any leakag	e. For vert	ical surface t	two coats	
		performance shall carry guarantee for				-	-	-	
		be carried out all complete as per specif		•	•				
		The crystalline slurry shall be capable of				•	•		
		with control concrete as per DIN 1048			•	•			
U	22.23.1	specified in ACI-212-3R-2010 i.e by red	lucing p	permeabilit	y of concre	ete by mor	e than 90%	compared	
6	22.23.1						•		
c	22.22.1	(internal) side with the help of synthe	tic fibe	r brush. Tl	ne material	shall mee	t the require	ements as	
		integral crystalline slurry : 1 part water	-					-	
		ratio of 5 : 2 (5 parts integral crystalline		•	-				
		-			-		•	-	
		sewage & water treatment plant, tunn					•	-	
		to the RCC structures like retaining wall	s of the	e basement	, water tan	ks, roof sla	bs, podiums,	reservior,	

8	13.7.1	12 mm cement plaster finished with a fl	oating	coat of nea	t cement of	f mix : 1:3(1	cement: 3 fine	sand)	
		inside wall	1	3.14	6.20	4.5	87.61		
		bottom slab top	1	3.14	3.10	3.10	30.18		
		Outside Wall Around	1	3.14	6.70	3.50	73.63		
							191.41		
		Say		191.41	m²	@ Rs.	331.31	/m²	63417.00
		Finishing with Epoxy paint (two or		-					
9	13.52.2	manufacturer's specifications includir	ng appi	opriate p	riming coa	at, prepara	ntion of sur	face, etc.	
		complete. On concrete work							
		Outside Wall Around	1	3.14	6.70	3.50	73.63		
		Total					73.63		
		say	73.6	m²	@ Rs.	181.87	/1m ²		13392.00
10	LS	Unforeseen Items							8840.00
		Grand Total		1	LI		1		1230000
		(Rupees Tv	-						

		CONSTRUCTION OF 5 MLD SEV	NAGE TREA	TMENT PL	ANT AT ELA	MKULAM,	КОСНІ		
		Thickened Slud	ge Sump (3.	75m Dia x	2.5m Heigh	nt)			
item no	Item Code	Description	No	L	В	н	Quantity	Unit	Amount
1	2.8.1	Earth work in excavation by mecha trenches or drains (not exceeding ramming of bottoms, lift up to 1.5 excavated soil as directed, within a	1.5 m in wid m, including	dth or 10 s g getting o	qm on plar ut the exca	n) including	g dressing of	sides and	
		For tank	3.14	2.525	2.525	1.50	30.03		
		Total					30.03	m ³	
		Say		30.03	m ³	@ Rs.	243.08	/m³	7299.00
2	2.8.1+2.26.1	Extra for every additional lift of 1. materials. All Kinds of Soil	.5 m or par	t thereof i	n excavatio	n /banking	g excavated o	or stacked	
		For tank	3.14	2.525	2.525	1.40	28.03		
		Total					28.03	m ³	
		Say		28.03	m ³	@ Rs.	318.67	/m³	8932.00
3	4.1.6	Providing and laying in position cen shuttering - All work up to plinth le mm nominal size).		•	-	-		-	
		For tank	3.14	2.525	2.525	0.10	2.00		
		For tank Total	3.14	2.525	2.525	0.10	2.00 2.00		

4	OBS DATA BASED ON 5.37.1+5.34.1	Providing and laying in position ready work, using Sulphate Resistant Cemen automatic batching plant and transpo- continuous agitated mixer, manufacture concrete work, including pumping of R.M centering, shuttering finishing and rei proportions as per IS : 9103 to acceler impairing strength and durability as per considered in this item is @ 340 kg/c recoverable separately). All works upto	t conte rted to ed as pe A.C. fro nforcen ate/ re directio um. Exe	nt as per a site of v mix desi m transit n nent, inclu tard settin n of the Er cess/less c	approved c vork in tra gn of speci nixer to site Iding cost g of concr ngineer - in	design mix, ansit mixer ified grade e of laying , of admixtu ete, improv - charge. (1	manufacture for all lead for reinforce , excluding th ures in recon ve workability Note :- Cemen	ed in fully s, having d cement he cost of nmended y without it content	
		for bottom slab	3.14	2.425	2.425	0.3	5.54		
		side wall alround	3.14	2.125	2.125	2.5	35.45		
		Deduction							
		side wall alround	3.14	1.875	1.875	2.5	27.60		
		Total					13.39	m ³	
		say		13.39	m³	@ Rs.	11202.53	/1m³	150002.00
5	5.37.1	Providing and laying in position ready work, using cement content as per app plant and transported to site of work in manufactured as per mix design of spo pumping of R.M.C. from transit mixer to finishing and reinforcement, including co to accelerate/ retard setting of concrete as per direction of the Engineer - in - ch kg/cum. Excess/less cement used as per plinth level	oroved transit ecified o site o ost of ac improv arge. (N	design mix mixer for grade for r of laying , dmixtures i ve workabil ote :- Cem	 manufact all leads, h reinforced excluding excluding n recommendation lity without ent contendation 	tured in fu naving cont cement co the cost o ended prop t impairing t considere	Ily automatic tinuous agitate ncrete work, of centering, s portions as per strength and o ed in this item	batching ed mixer, including huttering r IS : 9103 durability is @ 330	
		top slab	3.14	2.425	2.425	0.20	3.69		
							3.69		
		Deduction							
		manhole	1	0.45	0.6	0.15	0.04		

		Total less deduction					3.65		
		Say		3.65	m³	@ Rs.	9807.23	/m³	35821.00
6	OBS DATA BASED ON 5.22.6	Epoxy Coated Steel reinforcement position and binding all complete u			ng straight	ening, cuttii	ng, bending,	placing ir	
		quantity as per item no 4		13.39	120	kg/m³	1606.8		
		quantity as per item no 5		3.65	100	kg/m³	365.25		
		Total					1972.05	Kg	
		say		1972.05	kg	@ Rs.	89.82	/Kg	177130.00
7	4.12	Extra for providing and mixing wat cement as per manufacturer's spec		naterial in	cement co	ncrete work	t in doses by	weight o	F
		Quantity as per item no 6		13.39	340	kg/m³	4552.60	Kg	
		Quantity as per item no 7		3.65	330	kg/m³	1205.34	Kg	
		Total				0.	5757.94	•	
						50kg/bag	115.16	-	
		say		115.16	Bags	@ Rs.	70.05	/bag	8066.00
8	5.9.1	Centering and shuttering including	strutting, pro	opping etc.	and remov	val of form f	or :mass con	crete.	
		Raft Slab	1	3.14	4.85	0.3	4.57		
		Total					4.57	m²	
		Say		4.57	m²	@ Rs.	283.32		1295.00
9	5.9.2	Centering and shuttering including	strutting, pro	opping etc.	and remov	val of form f	or :for wall		
		outside alround	1	3.14	4.25	2.50	33.36		
		inside	1	3.14	3.75	2.50	29.44		
		Total					62.80	m²	
		Say		62.80	m²	@ Rs.	553.06	/m²	34732.00
10	5.9.3	Centering and shuttering including	strutting, pro	opping etc.	and remov	val of form f	or slab		
		top slab - bottom	1	3.14	1.875	1.875	11.04		

		top slab - side	1	3.14	4.25	0.20	2.67		
		Total					13.71	m²	
		Say		13.71	m²	@ Rs.	616.90	/m	8456.00
11	2.25	Filling available excavated earth (exclud not exceeding 20cm in depth, consolida 50 m and lift up to 1.5 m.	-	-					
		quantity as per item no 1 & 2					58.06		
		Deduction							
		рсс					2.00		
		Base slab					5.54		
		tank including wall	3.14	2.125	2.125	2.5	35.45		
		total					42.99		
		Total less deduction					15.07	m³	
		say		15.07	m³	@ Rs.	183.70	/1m³	2768.00
12	22.23.1	Providing and applying integral crystalli to the RCC structures like retaining wall sewage & water treatment plant, tunn ratio of 5 : 2 (5 parts integral crystalling integral crystalline slurry : 1 part water (internal) side with the help of synthe specified in ACI-212-3R-2010 i.e by rec with control concrete as per DIN 1048 The crystalline slurry shall be capable of be carried out all complete as per specif performance shall carry guarantee for @0.70 kg per sqm	s of the els / su e slurry for ho tic fibe ducing p and res f self-he fication	e basement bway and : 2 parts v prizontal su r brush. Th permeabilit istant to 1 aling of cra and the dir	, water tan bridge dec vater) for v rfaces and ne material y of concre 6 bar hydro acks up to a ection of th	ks, roof sla k etc., prep vertical surf applying th shall mee ete by mor ostatic pres width of 0 ne engineer	bs, podiums, pared by mix faces and 3 : the same from the require the require than 90% soure on nega 50mm. The rin-charge. Th	reservior, ing in the 1 (3 parts n negative ements as compared ative side. work shall ne product	
			1						
		inside wall	1	3.14	3.75	2.5	29.44		
		inside wall Total	1	3.14	3.75	2.5	29.44 29.44		

13	22.23.1	Providing and applying integral crystalli to the RCC structures like retaining wall sewage & water treatment plant, tunner ratio of 5 : 2 (5 parts integral crystalline integral crystalline slurry : 1 part water (internal) side with the help of synthe specified in ACI-212-3R-2010 i.e by red with control concrete as per DIN 1048 The crystalline slurry shall be capable of be carried out all complete as per specif performance shall carry guarantee for 2 @1.10 kg per sqm.	s of the els / su e slurry) for ho tic fibe lucing p and res self-he ication	e basement bway and : 2 parts v orizontal su r brush. Th permeabilit istant to 1 aling of cra and the dir	, water tan bridge dec vater) for v rfaces and ne material y of concre 6 bar hydro acks up to a ection of th	ks, roof sla k etc., prep vertical surf applying th shall mee ete by mor ostatic pres width of 0 ne engineer	bs, podiums, pared by mix aces and 3 : ne same from t the require e than 90% of sure on nega .50mm. The v in-charge. Th	reservior, ing in the 1 (3 parts n negative ements as compared ative side. work shall re product	
		bottom slab top	1	3.14	1.875	1.875	11.04		
		Total					11.04	m²	
		Say		11.04	m²	@ Rs.	529.32	/m²	5843.00
14	13.7.1	12 mm cement plaster finished with a fle	oating o	oat of neat	t cement of	f mix : 1:3(1	cement: 3 fine	sand)	
		inside wall	1	3.14	3.75	2.5	29.44		
		bottom slab top	1	3.14	1.875	1.875	11.04		
		top slab bottom	1	3.14	1.875	1.875	11.04		
							51.52		
		Deduction							
		manhole	1	0.46	0.61		0.28		
		total					0.28		
		Total less deduction					51.24		
		Say		51.24	m²	@ Rs.	331.31	/m²	16975.00

	OBS DATA	Supplying and fixing D.I. cover w	ith frame Grade	e A for m	anholes	: 450x600 m	m rectangula	r DI. cover	
15	BASED ON	(heavy duty) the weight of the co	ver to be not le	ss than 12	10 kg.				
	19.18.3								
			1	1.00			1.00	nos	
		say		1.00	nos	@ Rs.	6606.79	/Each	6607.00
16	LS	Unforeseen Items							1865.00
		Grand Total							500000
			(Rupees F	ive Lakhs	: Only)				

		CONSTRUCTION OF 5 MLD SEWAG	E TREA	TMENT PLA	NT AT ELA	MKULAM,	косні		
		FILTER FEED TA	ANK (7n	nx 5 x 3.5m	Height)				
item no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount
1	2.6.1	Earth work in excavation by mechanic (exceeding 30cm in depth, 1.5m in width excavated earth, lead up to 50m and lift	n as well	l as 10 sqm	on plan) in	cluding get	ting out and o		
			1	8.30	6.30	0.85	44.45		
		Total					44.45		
		say		44.45		@ Rs.	183.99	-	8178.00
2	4.1.6	Providing and laying in position cement shuttering - All work up to plinth level : mm nominal size).		•	-	-		-	
		For tank	1	8.30	6.30	0.1	5.23		
		Deduction Piles	43.96	0.30	0.30	0.10	0.40		
		Total					4.83	m³	
		Say		4.83	m³	@ Rs.	7033.09	/m³	33993.00
1	OBS DATA BASED ON 5.37.2+5.34.1	Providing and laying in position ready m using Sulphate Resistant Cement conten- batching plant and transported to site o mixer, manufactured as per mix design o pumping of R.M.C. from transit mixer to finishing and reinforcement, including co to accelerate/ retard setting of concrete as per direction of the Engineer - in - ch kg/cum. Excess/less cement used as per plinth level upto floor V level	nt as pe f work f specifi to site o ost of ac e, impro arge. (N	er approved in transit m ied grade fo of laying , dmixtures i ve workabi lote :- Cem	l design mix nixer for all or reinforce , excluding n recomme ility withou nent conten	k, manufact leads, hav d cement c the cost c ended prop t impairing t considere	tured in fully ing continuou concrete work of centering, ortions as per strength and ed in this item	automatic s agitated , including shuttering r IS : 9103 durability n is @ 340	
		for bottom slab	1	8.10	6.10	0.75	37.06		

		side wall alround (outside)	1	26.00	0.25	3.50	22.75		
		Total					59.81	m ³	
		say		59.81	m³	@ Rs.	12355.58	/1m³	738987.00
	OBS DATA	Epoxy Coated Steel reinforcement	for R.C.C. w	ork includi	ng straight	ening, cutti	ng, bending,	placing in	
2	BASED ON	position and binding all complete up	to plinth lev	el.					
	5.22.6								
		quantity as per item no 1		59.81	120	kg/m³	7177.2		
		Total					7177.20	Kg	
		say		7177.20	kg	@ Rs.	89.82	/Kg	644656.00
3	4.12	Extra for providing and mixing wate cement as per manufacturer's specif		naterial in	cement co	ncrete work	c in doses by	weight of	
		quantity as per item no 1		59.81	340	kg/m³	20335.40	Kg	
		Total					20335.40	Kg	
						50kg/bag	406.71	bag	
		say		406.71	Bags	@ Rs.	70.05	/bag	28488.00
4	5.9.1	Centering and shuttering including st	trutting, pro	pping etc. a	and remova	l of form fo	r :mass concr	ete.	
		Raft Slab	1	28.4		0.75	21.30		
		Total					21.3	m²	
		Say		21.3	m²	@ Rs.	283.32	/m²	6035.00
5	5.9.2	Centering and shuttering including st	trutting, pro	pping etc. a	and remova	l of form fo	r :for wall		
		outside alround	1	26.00		3.50	91.00		
		inside	1	24.00		3.50	84.00		
		Total					175.00	m²	

6	22.23.1	Providing and applying integral crystalling the RCC structures like retaining walls sewage & water treatment plant, tunnel of 5 : 2 (5 parts integral crystalline slurry crystalline slurry : 1 part water) for hori side with the help of synthetic fiber brus 212-3R-2010 i.e by reducing permeability as per DIN 1048 and resistant to 16 bar l be capable of self-healing of cracks up to as per specification and the direction of guarantee for 10 years against any leakage	of the s / subw y : 2 pa izontal s sh. The y of con hydrost of con bydrost of the e ge. For	basement, vay and bri rts water) f surfaces ar material sh crete by m atic pressu h of 0.50m engineerin- vertical sur	water tank dge deck ef for vertical d applying all meet the ore than 90 re on negat m. The wo charge. The face two co	ks, roof sla tc., prepare surfaces an the same f e requireme % compare ive side. Th rk shall be c e product p pats @0.70	bs, podiums, d by mixing ir d 3 : 1 (3 par rom negative ents as specifi d with contro e crystalline s carried out all performance s kg per sqm	reservior, the ratio ts integral (internal) ied in ACI- l concrete durry shall complete shall carry	
		inside wall	1	24.00		3.50	84.00		
		Total Say		84.00		@ Rs.	84.00 683.80		57439.00
7	22.23.1	Providing and applying integral crystalling the RCC structures like retaining walls sewage & water treatment plant, tunnel of 5 : 2 (5 parts integral crystalline slurry crystalline slurry : 1 part water) for hori side with the help of synthetic fiber brus 212-3R-2010 i.e by reducing permeability as per DIN 1048 and resistant to 16 bar be capable of self-healing of cracks up to as per specification and the direction of guarantee for 10 years against any leakage	of the s / subw y : 2 pa izontal s sh. The y of con hydrost o a widt of the e	basement, vay and bri rts water) f surfaces ar material sh crete by m atic pressu h of 0.50m engineerin-	water tank dge deck er for vertical d applying all meet the ore than 90 re on negat m. The wor charge. The	ks, roof sla tc., prepare surfaces an the same f e requireme % compare ive side. Th rk shall be c e product p	bs, podiums, d by mixing ir d 3 : 1 (3 par rom negative ents as specifi d with contro e crystalline s carried out all performance s	reservior, n the ratio ts integral (internal) ied in ACI- l concrete slurry shall complete shall carry	
		bottom slab top	1	7.00	5.00		35.00		
		Total					35.00	m²	
		Say		35.00	m²	@ Rs.	529.32	/m²	18526.00

8	13.7.1	12 mm cement plaster finished with a	a floating co	oat of neat	cement of r	nix : 1:3 (1 d	cement: 3 fine sa	and)	
		Inside wall	1	24.00		3.50	84.00		
		Base Slab	1	7.00	5.00		35.00		
		Total					119.00	m²	
		Say		119.00	m²	@ Rs.	331.31	/m²	39426.00
9	13.52.2	Finishing with Epoxy paint (two or manufacturer's specifications includined on concrete work		-					
		Tank Wall Above Ground	1	26.00		3.80	98.80		
		Total					98.80		
		say	98.8	m²	@ Rs.	181.87	/1m ²		17969.00
10	LS	Unforeseen Items							1689.00
		Grand Total	-		<u> </u>				1650000
		(Rupee	es Sixteen L	akhs Fifty	Thousand C)nly)			

		CONSTRUCTION OF 5 MLD SEWAG	E TREA	TMENT PLA	NT AT ELA	MKULAM,	косні		
		TREATED WATER	TANK (7mx 5 x 3.	5m Height)				
item no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount
1	2.6.1	Earth work in excavation by mechanic (exceeding 30cm in depth, 1.5m in width excavated earth, lead up to 50m and lift	as wel	l as 10 sqm	on plan) in	cluding get	ting out and o		
			1	8.30	6.30	0.85	44.45		
		Total					44.45	m³	
		say		44.45		@ Rs.	183.99		8178.00
2	4.1.6	Providing and laying in position cement shuttering - All work up to plinth level : mm nominal size).		•	-	-		-	
		For tank	1	8.30	6.30	0.1	5.23		
		Deduction Piles	43.96	0.30	0.30	0.10	0.40		
		Total					4.83	m³	
		Say		4.83	m³	@ Rs.	7033.09	/m³	33993.00
1	OBS DATA BASED ON 5.37.2+5.34.1	as per direction of the Engineer - in - ch kg/cum. Excess/less cement used as per plinth level upto floor V level	nt as pe f work f specif co site ost of a c, impro arge. (N	er approved in transit n ied grade fo of laying , dmixtures i ve workab lote :- Cem mix is paya	I design mix nixer for all or reinforce , excluding n recomme ility withou nent conten able/ recove	x, manufac leads, hav d cement c the cost o ended prop t impairing t considere erable sepa	tured in fully ing continuou oncrete work of centering, ortions as per strength and ed in this item rately). All wo	automatic is agitated , including shuttering r IS : 9103 durability n is @ 340 orks above	
		for bottom slab	1	8.10	6.10	0.75	37.06		

		side wall alround (outside)	1	26.00	0.25	3.50	22.75		
		Total					59.81	m³	
		say		59.81	m³	@ Rs.	12355.58	/1m³	738987.00
	OBS DATA	Epoxy Coated Steel reinforcement	for R.C.C. w	ork includi	ng straight	ening, cutti	ng, bending,	placing in	
2	BASED ON	position and binding all complete u	pto plinth leve	el.					
	5.22.6								
		quantity as per item no 1		59.81	120	kg/m³	7177.2		
		Total					7177.20	Kg	
		say		7177.20	kg	@ Rs.	89.82	/Kg	644656.00
3	4.12	Extra for providing and mixing wat cement as per manufacturer's spec			cement co		c in doses by	weight of	
		quantity as per item no 1		59.81	340	kg/m³	20335.40	Kg	
		Total					20335.40	Kg	
						50kg/bag	406.71	bag	
		say		406.71	Bags	@ Rs.	70.05	/bag	28488.00
4	5.9.1	Centering and shuttering including	strutting, prop	oping etc. a	and remova	ll of form fo	r :mass concr	ete.	
		Raft Slab	1	28.4		0.75	21.30		
		Total					21.3	m²	
		Say		21.3	m²	@ Rs.	283.32	/m²	6035.00
5	5.9.2	Centering and shuttering including	strutting, prop	oping etc. a	and remova	ll of form fo	r :for wall		
5	5.9.2		strutting, prop	oping etc. a 26.00		l of form fo 3.50	r :for wall 91.00		
5	5.9.2	Centering and shuttering including					91.00 84.00		
5	5.9.2	Centering and shuttering including outside alround	1	26.00		3.50	91.00		

6	22.23.1	Providing and applying integral crystalling the RCC structures like retaining walls sewage & water treatment plant, tunnel of 5 : 2 (5 parts integral crystalline slurry crystalline slurry : 1 part water) for hori side with the help of synthetic fiber brus 212-3R-2010 i.e by reducing permeability as per DIN 1048 and resistant to 16 bar l be capable of self-healing of cracks up to as per specification and the direction of guarantee for 10 years against any leakage	of the s / subw y : 2 pa izontal s sh. The y of con hydrost o a widt of the e ge. For	basement, vay and bri rts water) f surfaces an material sh crete by m atic pressu h of 0.50m engineerin- vertical sur	water tanl dge deck e for vertical d applying all meet th ore than 90 re on negat m. The wo charge. The face two co	ks, roof sla tc., prepare surfaces an the same f e requireme % compare ive side. Th rk shall be c e product p pats @0.70	bs, podiums, d by mixing ir d 3 : 1 (3 par rom negative ents as specifi d with contro e crystalline s carried out all performance s kg per sqm	reservior, the ratio ts integral (internal) ied in ACI- l concrete lurry shall complete shall carry	
		inside wall	1	24.00		3.50	84.00		
		Total Say		84.00	²	@ Rs.	84.00 683.80		57439.00
7	22.23.1	Providing and applying integral crystalling the RCC structures like retaining walls sewage & water treatment plant, tunnel of 5 : 2 (5 parts integral crystalline slurry crystalline slurry : 1 part water) for hori side with the help of synthetic fiber brus 212-3R-2010 i.e by reducing permeability as per DIN 1048 and resistant to 16 bard be capable of self-healing of cracks up to as per specification and the direction of guarantee for 10 years against any leakage	of the s / subw y : 2 pa izontal s sh. The y of con hydrost o a widt of the e	basement, vay and bri rts water) f surfaces an material sh crete by m atic pressu h of 0.50m engineerin-	water tanl dge deck e for vertical d applying all meet th ore than 90 re on negat m. The wo charge. The	ks, roof sla tc., prepare surfaces an the same f e requireme % compare vive side. Th rk shall be c e product p	bs, podiums, d by mixing ir d 3 : 1 (3 par rom negative ents as specifi d with contro e crystalline s carried out all performance s	reservior, the ratio ts integral (internal) ied in ACI- l concrete lurry shall complete shall carry	
		bottom slab top	1	7.00	5.00		35.00		
		Total					35.00		
		Say		35.00	m²	@ Rs.	529.32	/m²	18526.00

8	13.7.1	12 mm cement plaster finished with a flo	oating co	oat of neat	cement of r	nix : 1:3 (1 d	cement: 3 fine sa	and)	
		Inside wall	1	24.00		3.50	84.00		
		Base Slab	1	7.00	5.00		35.00		
		Total					119.00	m²	
		Say		119.00	m²	@ Rs.	331.31	/m²	39426.00
9	13.52.2	Finishing with Epoxy paint (two or manufacturer's specifications including On concrete work		-				-	
		Tank Wall Above Ground	1	26.00		3.80	98.80		
		Total					98.80		
		say	98.8	m²	@ Rs.	181.87	/1m ²		17969.00
10	LS	Unforeseen Items							1689.00
		Grand Total							1650000
		(Rupees S	Sixteen L	akhs Fifty.	Thousand C)nly)			

		CONSTRUCTION OF 5 MLD SEWAG	GE TREA	TMENT PL	ANT AT EL	AMKULAM	, КОСНІ		
		CENTRATE SUN	/IP (1.5	m Dia x 2.5	im Height)				
item no	Item Code	Description	No	L	В	н	Quantity	Unit	Amount
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 kind of soils.							
		For tank	3.14	1.35	1.35	1.50	8.58		
		Total					8.58	m³	
		Say		8.58	m³	@ Rs.	243.08	/m³	2087.00
2	2.8.1+2.26.1	Extra for every additional lift of 1.5 m materials. Ordinary Rock	or par	t thereof i	n excavatic	on /banking	g excavated o	or stacked	
		For tank	3.14	1.35	1.35	1.40	8.01		
		Total					8.01	m ³	
		Say		8.01	m³	@ Rs.	318.67		2553.00
3	4.1.6	Providing and laying in position cement shuttering - All work up to plinth level : mm nominal size).		•	-	-		-	
		For tank	3.14	1.35	1.35	0.10	0.57		
		Total					0.57	m³	
		Say		0.57	m³	@ Rs.	7033.09	/m³	4025.00

4	OBS DATA BASED ON 5.37.1+5.34. 1	Providing and laying in position ready work, using Sulphate Resistant Cemer automatic batching plant and transpo- continuous agitated mixer, manufactur concrete work, including pumping of R. centering, shuttering finishing and re proportions as per IS : 9103 to accele impairing strength and durability as per considered in this item is @ 340 kg/o recoverable separately). All works upto	nt conte orted to ed as pe M.C. fro inforcer rate/ re directic cum. Ex	nt as per a site of v er mix desi m transit r nent, inclu tard settin on of the Er cess/less c	approved c vork in tra gn of spect nixer to site Iding cost g of concr ngineer - in	lesign mix, ansit mixer ified grade e of laying , of admixtu ete, improv - charge. (1	manufacture for all lead for reinforce , excluding th ures in recorve workability Note :- Cemer	ed in fully s, having d cement he cost of mmended y without ht content	
		for bottom slab	3.14	1.25	1.25	0.3	1.47		
		side wall alround	3.14	1.9	1.9	2.5	28.34		
		Deduction	2.4.4	4.5	4.5	2 -	17.00		
		side wall alround	3.14	1.5	1.5	2.5	17.66		
		Total say		12.15	m ³	@ Rs.	12.15 11202.53		136066.00
5	5.37.1	Providing and laying in position ready work, using cement content as per ap plant and transported to site of work in manufactured as per mix design of sp pumping of R.M.C. from transit mixer finishing and reinforcement, including of	proved n transit ecified to site o cost of a	M-25 grad design mix mixer for grade for of laying , dmixtures i	e concrete , manufac all leads, f reinforced , excluding n recomme	e for reinfo tured in fu naving cont cement co the cost o ended prop	rced cement Ily automatic inuous agitat ncrete work, f centering, s ortions as per	concrete batching ed mixer, including huttering r IS : 9103	
		to accelerate/ retard setting of concrete as per direction of the Engineer - in - ch kg/cum. Excess/less cement used as per plinth level	arge. (N	lote :- Cem	ent conten	t considere	d in this item	is @ 330	
		as per direction of the Engineer - in - ch kg/cum. Excess/less cement used as per	arge. (N	lote :- Cem	ent conten	t considere	d in this item	is @ 330	

		total					0.04		
		Total less deduction					0.53		
		Say		0.53	m³	@ Rs.	9807.23	/m³	5161.00
	OBS DATA	Epoxy Coated Steel reinforcement for	or R.C.C. wo	ork includi	ng straight	ening, cutti	ng, bending,	placing in	
6	BASED ON	position and binding all complete up	to plinth lev	vel.					
	5.22.6								
		quantity as per item no 4		12.15	120	kg/m³	1457.52		
		quantity as per item no 5		0.53	100	kg/m³	52.63		
		Total					1510.15	Kg	
		say		1510.15	kg	@ Rs.	89.82	/Kg	135642.00
_		Extra for providing and mixing water	r proofing n	naterial in	cement co	ncrete worl	k in doses by	weight of	
7	4.12	cement as per manufacturer's specif	ication.						
		quantity as per item no 4		12.15	340	kg/m³	4129.64	Kg	
		quantity as per item no 5		0.53	330	kg/m³	173.67	Kg	
		Total					4303.31	Kg	
						50kg/bag	86.07	bag	
		say		86.07	Bags	50kg/bag @ Rs.	86.07 70.05	•	6029.00
8	5.9.1	say Centering and shuttering including st	trutting, pro			@ Rs.	70.05	/bag	6029.00
8	5.9.1		trutting, pro			@ Rs. val of form f	70.05	/bag icrete.	6029.00
8	5.9.1	Centering and shuttering including st		opping etc.	and remo	@ Rs. val of form f	70.05 for :mass con	/bag acrete.	6029.00
8	5.9.1	Centering and shuttering including st Raft Slab Total		opping etc.	and remo	@ Rs. val of form f	70.05 for :mass con 2.36	/bag acrete. m ²	6029.00 669.00
8	5.9.1	Centering and shuttering including st Raft Slab	1	opping etc. 3.14 2.36	and remo 2.5 m ²	@ Rs. val of form 1 0.3 @ Rs.	70.05 for :mass con 2.36 2.36 283.32	/bag acrete. m ²	
		Centering and shuttering including st Raft Slab Total Say	1	opping etc. 3.14 2.36	and remo 2.5 m ²	@ Rs. val of form t 0.3 @ Rs. val of form t	70.05 for :mass con 2.36 2.36 283.32	/bag acrete. m ²	
		Centering and shuttering including st Raft Slab Total Say Centering and shuttering including st	1 trutting, pro	3.14 2.36 2.90 opping etc.	and remo 2.5 m ² and remo	@ Rs. val of form 1 0.3 @ Rs. val of form 1 2.50	70.05 for :mass con 2.36 2.36 283.32 for :for wall	/bag acrete. m ² /m ²	
		Centering and shuttering including st Raft Slab Total Say Centering and shuttering including st outside alround	1 trutting, pro	2.36 3.14 2.36 0pping etc. 3.14	and remo 2.5 m ² and remo 1.90	@ Rs. val of form 1 0.3 @ Rs. val of form 1 2.50	70.05 for :mass con 2.36 2.36 283.32 for :for wall 14.92	/bag acrete. m ² /m ²	
		Centering and shuttering including st Raft Slab Total Say Centering and shuttering including st outside alround inside	1 trutting, pro	2.36 3.14 2.36 0pping etc. 3.14	and remo 2.5 m² and remo 1.90 1.50	@ Rs. val of form 1 0.3 @ Rs. val of form 1 2.50	70.05 for :mass con 2.36 2.36 283.32 for :for wall 14.92 11.78	/bag acrete. m ² /m ² m ²	

		top slab - bottom	1	3.14	1.50	1.50	7.07		
		top slab - side	1	3.14	1.90	0.20	1.19		
		Total					8.26	m²	
		Say		8.26	m²	@ Rs.	616.90	/m	5094.00
11	2.25	Filling available excavated earth (exclud not exceeding 20cm in depth, consolida	-	-	•				
		50 m and lift up to 1.5 m. quantity as per item no 1 & 2					16.60		
		Deduction							
		pcc					0.57		
		Base slab					1.47		
		tank including wall	3.14	0.95	0.95	2.5	7.08		
		total					9.13		
		Total less deduction					7.47 ו	m³	
		say		7.47	m³	@ Rs.	183.70	/1m³	1372.00
12	22.23.1	Providing and applying integral crystalli to the RCC structures like retaining wall sewage & water treatment plant, tunn ratio of 5 : 2 (5 parts integral crystalling integral crystalline slurry : 1 part water (internal) side with the help of synthe specified in ACI-212-3R-2010 i.e by rec with control concrete as per DIN 1048 The crystalline slurry shall be capable of be carried out all complete as per specifi performance shall carry guarantee for @0.70 kg per sqm	s of the els / su e slurry) for ho tic fibe lucing p and res ⁵ self-he ication	e basement bway and : 2 parts w orizontal su r brush. Th permeabilit istant to 1 aling of cra and the dir	, water tan bridge dec vater) for v rfaces and ne materia g of concru 6 bar hydro acks up to a rection of th	ks, roof sla k etc., pre vertical surf applying th shall mee ete by mor ostatic pres width of 0 ne enginee	bs, podiums, r pared by mixin faces and 3 : 1 he same from et the requiren re than 90% co ssure on negat 0.50mm. The w rin-charge. The	reservior, ng in the L (3 parts negative ments as ompared tive side. vork shall e product	
		inside wall	1	3.14	1.50	2.5	11.78		
		Total					11.78 ı	m²	
		Say		11.78	m²	@ Rs.	683.80	/m²	8052.00

13	22.23.1	Providing and applying integral crystalli to the RCC structures like retaining wall sewage & water treatment plant, tunn ratio of 5 : 2 (5 parts integral crystallin integral crystalline slurry : 1 part water (internal) side with the help of synthe specified in ACI-212-3R-2010 i.e by rec with control concrete as per DIN 1048 The crystalline slurry shall be capable of be carried out all complete as per specif performance shall carry guarantee for @1.10 kg per sqm.	s of the els / sub e slurry :) for hor tic fiber lucing pe and resis self-hea ication a	basement oway and 2 parts w izontal su brush. Th ermeabilit stant to 1 ling of cra nd the dir	r, water tan bridge dec water) for v rfaces and ne material by of concre 6 bar hydro acks up to a rection of th	ks, roof slal k etc., prep ertical surf applying th shall mee ete by more ostatic pres width of 0. he engineer	os, podiums, pared by mixi- aces and 3 : he same from t the require e than 90% of sure on nega .50mm. The v in-charge. Th	reservior, ing in the 1 (3 parts n negative ements as compared ative side. work shall e product	
		bottom slab top	1	3.14	0.75	0.75	1.77		
		Total					1.77	m²	
		Say		1.77	m²	@ Rs.	529.32	/m²	935.00
14	13.7.1	12 mm cement plaster finished with a fl	oating co	oat of nea	t cement of	⁻ mix : 1:3 (1	L cement: 3 fi	ine sand)	
		inside wall	1	3.14	1.50	2.5	11.78		
		bottom slab top	1	3.14	1.45	1.45	6.60		
		top slab bottom	1	3.14	0.75	0.75	1.77		
							20.14		
		Deduction							
		manhole	1	0.46	0.61		0.28		
		total					0.28		
		Total less deduction					19.86		
		Say		19.86	m²	@ Rs.	331.31	/m²	6581.00

15		Supplying and fixing D.I. cover with fra				s : 450x600 mr	n rectangular	[.] Dl. cover	
15	19.18.3	(heavy duty) the weight of the cover to	be not le	ss than 1.	10 kg.				
			1	1.00			1.00	nos	
		say		1.00	nos	@ Rs.	6606.79	/Each	6607.00
16	LS	Unforeseen Items							366.00
		Grand Total			•		•		336000
		(Rupees Th	ee Lakhs	Thirty Si	x Thous	and Only)			

		CONSTRUCTION OF 5 MLD SEWAG	E TREA	TMENT PL	ANT AT ELA	AMKULAM,	косні		
		TREATE	D WAT	ER CHANN	EL				
item no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount
1	2.8.1	Earth work in excavation by mechanicative trenches or drains (not exceeding 1.5 r ramming of bottoms, lift up to 1.5 m, in excavated soil as directed, within a lead	n in wi	dth or 10 s g getting o	sqm on pla ut the exca	n) including	g dressing of	sides and	
		Channel	1	30.00	0.90	0.30			
		Total					8.10	m³	
		Say		8.10	m ³	@ Rs.	243.08	/m³	1969.00
2	4.1.8	Providing and laying in position cement shuttering - All work up to plinth leve aggregate 40 mm nominal size).		•	-	-		-	
		Channel	1	30.00	0.90	0.10			
		Total					2.70	m ³	
		Say		2.70	m³	@ Rs.	6541.68	/m³	17663.00
3	5.37.1	Providing and laying in position ready work, using cement content as per ap plant and transported to site of work in manufactured as per mix design of sp pumping of R.M.C. from transit mixer finishing and reinforcement, including c to accelerate/ retard setting of concrete as per direction of the Engineer - in - ch kg/cum. Excess/less cement used as per plinth level	proved n transi ecified to site ost of a , impro arge. (N	design mix t mixer for grade for of laying , dmixtures ve workabi lote :- Cem	x, manufac all leads, l reinforced , excluding in recomm lity withou nent conter	tured in fu naving cont cement co the cost o ended prop t impairing nt considere	Ily automatic inuous agitat ncrete work, of centering, s ortions as pe strength and ed in this item	batching ted mixer, including shuttering r IS : 9103 durability n is @ 330	
		Base Slab	1	30.00	0.70	0.20	4.20		
		Side Wall	2	30.00	0.10	1.00	6.00		

			2	0.50	0.10	1.00	0.10		
		Total					10.30		
		Say		10.30	m³	@ Rs.	9807.23	/m³	101014.0
	OBS DATA	Epoxy Coated Steel reinforcement	for R.C.C. wo	ork includi	ng straight	ening, cuttii	ng, bending,	placing in	1
4	BASED ON	position and binding all complete u	pto plinth lev	vel.					
	5.22.6								
		quantity as per item no 3		10.30	80	kg/m³	824		
		Total					824.00	Kg	
		say		824.00	kg	@ Rs.	89.82	/Kg	74012.0
5	4.12	cement as per manufacturer's spec quantity as per item no 1		10.30	340	kg/m³	3502.00	Kg	
		quantity as per item no 1		10.30	340	kg/m³	3502.00	Kg	
		Total					3502.00	Kg	
						50kg/bag	70.04	bag	
		say		70.04	Bags	@ Rs.	70.05	/bag	4906.00
6	5.9.2	Centering and shuttering including	strutting, pro	opping etc.	. and remo	val of form f	for :for wall		
		outside alround	2	30.00		1.20	72.00		
			2	0.70		1.20	1.68		
		inside	2	30.00		1.00	60.00		
			2	0.50		1.00	1.00		
		Total					134.68	m²	

7	22.23.1	Providing and applying integral crystalli to the RCC structures like retaining wall sewage & water treatment plant, tunn ratio of 5 : 2 (5 parts integral crystalline integral crystalline slurry : 1 part water (internal) side with the help of synthe specified in ACI-212-3R-2010 i.e by red with control concrete as per DIN 1048 The crystalline slurry shall be capable of be carried out all complete as per specif performance shall carry guarantee for @0.70 kg per sqm	s of the els / su e slurry) for ho tic fibe lucing p and res self-he ication	e basement bway and : 2 parts w orizontal su r brush. Th permeabilit istant to 1 saling of cra and the dir	t, water tar bridge dec water) for v infaces and he materia ty of concr 6 bar hydr acks up to a rection of t	nks, roof sla ck etc., prep vertical surf applying th applying th shall mee ete by mor ostatic pres a width of 0 he engineer	bs, podiums, pared by mix faces and 3 : ne same from et the require te than 90% of ssure on nega 0.50mm. The of in-charge. Th	reservior, ing in the 1 (3 parts n negative ements as compared ative side. work shall e product	
		inside	2	30.00		1.00	60.00		
			2	0.50		1.00	1.00		
		Total					61.00		
		Say		61.00	m²	@ Rs.	683.80	/m²	41712.00
		Drouiding and applying integral existalli							
8	22.23.2	Providing and applying integral crystalli to the RCC structures like retaining wall sewage & water treatment plant, tunn ratio of 5 : 2 (5 parts integral crystalline integral crystalline slurry : 1 part water (internal) side with the help of synthe specified in ACI-212-3R-2010 i.e by red with control concrete as per DIN 1048 The crystalline slurry shall be capable of be carried out all complete as per specif performance shall carry guarantee for 2 @1.10 kg per sqm.	s of the els / su e slurry) for ho tic fibe lucing p and res self-he ication	e basement bway and : 2 parts w orizontal su r brush. Th permeabilit istant to 1 caling of cra and the dir	t, water tar bridge dec water) for v infaces and he materia ty of concr 6 bar hydr acks up to a rection of t	nks, roof sla ck etc., prep vertical surf applying th applying th shall mee ete by mor ostatic pres a width of 0 he engineer	bs, podiums, pared by mix faces and 3 : ne same from et the require te than 90% ssure on nega 50mm. The rin-charge. Th	reservior, ing in the 1 (3 parts n negative ements as compared ative side. work shall e product	
8	22.23.2	to the RCC structures like retaining wall sewage & water treatment plant, tunn ratio of 5 : 2 (5 parts integral crystalline integral crystalline slurry : 1 part water (internal) side with the help of synthe specified in ACI-212-3R-2010 i.e by red with control concrete as per DIN 1048 The crystalline slurry shall be capable of be carried out all complete as per specif performance shall carry guarantee for 2	s of the els / su e slurry) for ho tic fibe lucing p and res self-he ication	e basement bway and : 2 parts w orizontal su r brush. Th permeabilit istant to 1 caling of cra and the dir	t, water tar bridge dec water) for v infaces and he materia ty of concr 6 bar hydr acks up to a rection of t	nks, roof sla ck etc., prep vertical surf applying th I shall mee ete by mor ostatic pres a width of 0 he engineer For horiz e	bs, podiums, pared by mix faces and 3 : ne same from et the require te than 90% ssure on nega 50mm. The rin-charge. Th	reservior, ing in the 1 (3 parts n negative ements as compared ative side. work shall e product one coat	

		Say		15.00	m²	@ Rs.	529.32	/m²	7940.00
9	13.7.1	12 mm cement plaster finished	I with a floating	coat of nea	t cement o	f mix : 1:3 (1 cement: 3 f	ine sand)	
		inside	2	30.00		1.00	60.00		
			2	0.50		1.00	1.00		
		Base	1	30.00	0.50		15.00		
		outside alround	2	30.00		1.20	72.00		
			2	0.70		1.20	1.68		
		Total					149.68		
		Say		149.68	m²	@ Rs.	331.31	/m²	49590.00
10	13.52.2	Finishing with Epoxy paint (manufacturer's specifications		-					
		complete. On concrete work				it, prepare	ition of sur	lace, etc.	
		complete. On concrete work outside alround	2	30.00	-	1.20	72.00		
		-	2	30.00 0.70					
		-		1		1.20	72.00		
		outside alround		0.70		1.20	72.00 1.68 73.68		13400.00
11	LS	outside alround Total	2	0.70		1.20 1.20	72.00 1.68 73.68		13400.00 954.00
11	LS	outside alround Total say	2	0.70		1.20 1.20	72.00 1.68 73.68		13400.00 954.00 267000

		CONSTRUCTION OF 5 MLD SEWAG	GE TREA	TMENT PL	ANT AT EL	AMKULAN	Л, КОСНІ			
		SLUDO	GE STOR	AGE YARD)					
ltem no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount	
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 kind of soils.								
		Column	6	1.20	1.20	1.50	12.96			
		For DR Packing								
		Long Wall	2	5.00	0.40	0.45	1.80			
		Short Wall	2	3.80	0.40	0.45	1.37			
		Total					16.13	m ³		
		Say		16.13	m³	@ Rs.	243.08	/m³	3920.00	
2	2.8.1+2.26.1	Extra for every additional lift of 1.5 m materials. Ordinary Rock								
		Column	6	1.20	1.20	1.10				
		Total					9.50			
		Say		9.50	m ³	@ Rs.	318.67	/m³	3029.00	
3	4.1.8	Providing and laying in position cemer and shuttering - All work up to plinth stone aggregate 40 mm nominal size).		-	-	coarse sa	ind(zone-III) :	8 graded		
		Column	6	1.20	1.20	0.20	1.73			
		For ramp	1	3.60	1.50	0.20	1.08			
		Total					2.81	m ³		
		Say		2.81	m ³	@ Rs.	6541.68	/m³	18369.00	
4	obs	Dry rubble masonry with hard stone in foundation	cluding	cost of all	materials,	labour ch	arges etc com	plete for		

		Long Wall	2	6.00	0.40	0.45	2.16		
		Short Wall	4	2.90	0.40	0.45			
		Total					4.25	m ³	
		say		4.25	m³	@ Rs.	3941.23	/1m³	16742.00
5	5.37.1	Providing and laying in position ready work, using cement content as per ap plant and transported to site of work in manufactured as per mix design of sp pumping of R.M.C. from transit mixer finishing and reinforcement, including 9103 to accelerate/ retard setting of of durability as per direction of the Engir item is @ 330 kg/cum. Excess/less separately). All works upto plinth level	proved on n transit ecified g to site o cost of concrete, neer - in	design mix mixer for rade for r f laying , , admixture improve - charge.	all leads, h all leads, h einforced excluding es in recor workabilit (Note :- Ce	tured in finaving con cement co the cost nmended y without ement cor	ully automatic atinuous agitate oncrete work, of centering, sl proportions a impairing stre atent considere	batching ed mixer, including huttering s per IS : ngth and ed in this	
		Column Raft	6	1.00	1.00	0.40	2.40		
		Column	6	0.20	0.20	2.00	0.48		
		Plinth Beam	3	6.00	0.40	0.45	3.24		
			2	6.40	0.40	0.45	2.30		
		Ramp	0.5	3.50	1.50	0.45	1.18		
		Total					9.61		
		Say		9.61	m³	@ Rs.	9807.23	/m³	94201.00
6	5.3	Reinforced cement concrete work in be balconies, shelves, chajjas, lintels, ban plinth level up to floor five level, reinforcement, with 1:1.5:3 (1 cement nominal size).	ds, plain excludin	window g the cos	sills, stairc st of cent	ases and tering, sh	spiral stair cas uttering, finisl	es above hing and	
		Lintel	1	6.00	0.20	0.20	0.24		

			2	6.40	0.20	0.20	0.51		
		Total					0.75	m³	
		say		0.75	m³	@ Rs.	10796.48	/1m³	8119.00
		Providing and laying in position ready	mixed N	∕I-25 grad	e concrete	e for reinf	orced cement	concrete	
		work, using cement content as per ap	proved o	lesign mix	, manufac	tured in f	ully automatic	batching	
		plant and transported to site of work in	n transit	mixer for	all leads, h	naving con	tinuous agitate	ed mixer,	
		manufactured as per mix design of sp	ecified g	rade for r	einforced	cement co	oncrete work,	including	
		pumping of R.M.C. from transit mixer	to site o	f laying , ,	excluding	the cost of	of centering, sl	huttering	
7	5.37.2	finishing and reinforcement, including	cost of	admixture	es in recor	nmended	proportions as	s per IS :	
		9103 to accelerate/ retard setting of c	oncrete,	improve	workabilit	y without	impairing stre	ngth and	
		durability as per direction of the Engir	neer - in	- charge.	(Note :- Ce	ement cor	ntent considere	ed in this	
		item is @ 330 kg/cum. Excess/less	cement	used as	per desig	gn mix is	payable/ rec	overable	
		separately). All works above plinth leve	el						
		Column	6	0.20		3.90	0.94		
		Beam	3	6.00			1.44		
			2	6.40	0.20	0.40	1.02		
		Total					3.40		
		Say		3.40	m³	@ Rs.	10981.13	/m³	37336.00
		Laterate masonry with neatly dressed	laterate	stone of a	size 40X20	X15cm or	nearest size ir	n cement	
8	Obs	mortar 1:6 for superstructuree above p	olinth lev	el up to fl	oor two le	vel includ	ing all cost of n	naterials,	
		labour charges etc							
		Long Wall	1	6.00	0.20	3.90	4.68		
		Short Wall	4	2.90	0.20	3.90	9.05		
		Total					13.73		
		say		13.73	m³	@ Rs.	7056.15	/m³	96867.00
		Steel reinforcement for R.C.C. work inc	cluding s	traighteni	ng, cutting	, bending,	placing in pos	ition and	
9	5.22.6	binding all complete up to&above plint	h level. ⁻	Thermo-N	1echanicall	y Treated	bars.		

						-			
		quantity as per item no 5		9.61	120	kg/m³	1152.63		
		quantity as per item no 6		0.75	80	kg/m³	60.16		
		quantity as per item no 7		3.40	120	kg/m³	408.00		
		Total					1620.79		
		say		1620.79	kg	@ Rs.	82.68	/Kg	134009.00
10	5.9.1	Centering and shuttering includin	ig strutting, pr	opping etc	. and remo	oval of for	m for :mass co	ncrete.	
		Raft Slab	6	4.00		0.4	9.60		
		Total					9.6	m²	
		Say		9.6	m²	@ Rs.	283.32	/m²	2720.00
11	5.9.5	Centering and shuttering includir etc	ng strutting, pr	opping et	c. and rem	ioval of fo	rm for :for bea	am, lintel	
		Plinth Beam Outside	4	6.40		0.45	11.52		
		Plinth Beam Inside	6	6.00		0.45	16.20		
		Lintel Outside	3	6.40		0.20	3.84		
		Lintel Inside side	3	6.20		0.20	3.72		
		Beam Outside	4	6.40		0.40	10.24		
		Beam Inside side	6	6.00		0.40	14.40		
		Beam Bottom	3	6.00	0.20		3.60		
			4	2.90	0.20		2.32		
		Total					65.84	m²	
		Say		65.84	m²	@ Rs.	500.91	/m²	32980.00
12	5.9.6	Centering and shuttering includin	ig strutting, pr						
		Column	6	0.8		5.90	28.32		
		Total					28.32		
		Say	1	28.32		@ Rs.	683.44		19355.00

13	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and waterin lead up to 50 m and lift up to 1.5 m.									
		Inside	2	2.90	6.00	0.45	15.66				
		Total			0.00	0.10	15.66				
		say		11	m³	@ Rs.	183.71	/m³	2021.00		
14	13.1.1	12 mm cement plaster of mix : 1:4 (1 c	ement: 4					-			
		Building Outside	1	19.20		4.95	95.04				
		Building Inside	1	18.80		4.50	84.60				
		Beam Inside	1	6.00		1.00	6.00				
		Total					185.64	m²			
		Say		185.64	m²	@ Rs.	252.65	/m²	46901.00		
15	11.41.2	make in all colours and shades, laid or including grouting the joints with whit 600x600 mm				•					
		Inside	1	6.00	6.20		37.20				
		Skirting - Store Room	1	18.80		0.10	1.88				
		Total					39.08	m²			
		Say		39.08	m²	@ Rs.	1635.22	/m²	63904.00		
16	13.8	Providing and applying white cement and manufacturer, over the plastere complete.	-	•	-		•••				
		Building Outside	1	19.20		4.95	95.04				
		Building Inside	1	18.80		4.50	84.60				
		Beam Inside	1	6.00		1.00	6.00				
		Total					185.64	m²			

		say	185.64	m²	@ Rs.	127.60	/1m ²		23688.00
17	13.43.1	Applying one coat of water thinnable surface : water thinnable cement prime		primer of	approved	d brand ar	nd manufactur	e on wall	
		quantity as per item no 16					185.64		
		Total					185.64	m²	
		say	185.64	m²	@ Rs.	53.98	/1m ²		10020.00
		Wall painting with acrylic emulsion pa	aint, hav	ing VOC	(Volatile C	Organic Co	mpound) cor	itent less	
18	13.82.2	than 50 grams/ litre, of approved b wherever required, to achieve even sha				cluding ap	plying addition	nal coats	
		quantity as per item no 16					185.64		
		Total					185.64	m²	
		say	185.64	m²	@ Rs.	107.95	/1m ²		20040.00
			Ro	oof Truss					
19	PWD OBS	including cutting, hoisting, fixing in pos complete.	ition and	d applying	a priming	coat of ap	oproved steel p	orimer all	
		For Single Truss							
	Α	G.I. Pipe - 65mm (L)							
		Tie Beam	1	6.00			6.00	m	
		Total					6.00	m	
		Approx. Wt. of single section @ 5.71kg/m					34.26	kg	
	В	G.I. Pipe - 50mm (L)							
		Principle Rafter	2	3.70			7.40	m	
		Central Tie	1	2.00			2.00		
		Total					9.40	m	
		Approx. Wt. of single section @ 4.08kg/m					38.35	kg	

	С	G.I. Pipe - 40mm (L)							
		Major Strut	2	2.50			5.00	m	
		Minor Struts	2	1.74			3.48	m	
		Total					8.48	m	
		Approx. Wt. of single section @					27.39	ka	
		3.23kg/m					27.59	kg	
	D	G.I. Pipe - 25mm (L)							
		Minor Struts	2	1.00			2.00	m	
		Total					2.00	m	
		Approx. Wt. of single section @					3.96	kg	
		1.98kg/m					3.90	۳g	
	E	Base Plate (200 x 200 x 10)							
		Base Plate	6				6.00	Nos	
		Total					6.00	Nos	
		Approx. Wt. of single section @					18.84	kg	
		3.14kg/Nos						-	
		Grand Total (A+B+C+D+E)					122.80	kg	
		Total No.of Struss	3				368.41	kg	
		Say	368.41	kg	@ Rs.	133.27	/1kg		49098.00
		Steel work for purlin/single sections wi	th G I pip	es includ	ing cutting	, hoisting,	fixing		
20	PWD OBS	in position and applying a priming coa	t of appr	oved stee	el primer, i	ncluding w	velding and b	olted with	
		special shaped washers etc. complete							
	А	G.I. Pipe - 20mm (L)							
		Purin	8	13.20			105.60	m	
		Total					105.60	m	
		Approx. Wt. of single section @					145.73	ka	
		1.38kg/m					143.75	kg	
	В	G.I. Pipe - 65mm (L)							
		Longitudinal Tie Beam	2	12.00			24.00	m	
		Total					24.00	m	

		Approx. Wt. of single section @					137.04	ka	
		5.71kg/m					157.04	kg	
		Grand Total (A+B)					282.77	kg	
		Say	282.77	kg	@ Rs.	110.55	/1kg		31260.00
21	12.4.1	Providing ridges or hips of width 60 cm L hooks, bolts and nuts 8 mm dia. G.I. li		•				ated J. or	
		0.80 mm thick with zinc coating not less than 275gm/m ²		6.60			6.60		
		Total					6.60	m	
		Say		6.60	m	@ Rs.	834.96	/m³	5511.00
		washers filled with white lead, includin	0	••	•			••	
22	12.1.3	washers filled with white lead, includin paint on overlapping of sheets comple excluding the cost of purlins, rafters a required. 0.63 mm thick with zinc coati Roof	te (up to nd truss	o any pitcl ses and in	n in horizo cluding cu	ntal/ verti	cal or curved	surfaces),	
22	12.1.3	paint on overlapping of sheets comple excluding the cost of purlins, rafters a required. 0.63 mm thick with zinc coati	te (up to nd truss ng not le	o any pitcl es and in ess than 2	n in horizo cluding cu 75gm/ m²	ntal/ verti	cal or curved se and shape	surfaces),	
22	12.1.3	paint on overlapping of sheets comple excluding the cost of purlins, rafters a required. 0.63 mm thick with zinc coati Roof	te (up to nd truss ng not le	o any pitcl es and in ess than 2	n in horizo cluding cu 75gm/ m²	ntal/ verti	cal or curved see and shape we and shape we are and shape we are an a	wherever	
22	12.1.3	paint on overlapping of sheets completexcluding the cost of purlins, rafters a required. 0.63 mm thick with zinc coati Roof Total	te (up to nd truss ng not le 2 thetic ei	6.60 87.12 namel wh	n in horizo cluding cu 75gm/ m ² 6.60 m²	ntal/ verti tting to siz	cal or curved see and shape se	m² /m²	83766.00
		paint on overlapping of sheets completexcluding the cost of purlins, rafters a required. 0.63 mm thick with zinc coations Roof Total say Painting G.I. pipes and fittings with syn	te (up to nd truss ng not le 2 thetic ei	6.60 87.12 namel wh	n in horizo cluding cu 75gm/ m ² 6.60 m²	ntal/ verti tting to siz	cal or curved see and shape se	m² /m²	83766.00
	18.38	paint on overlapping of sheets completexcluding the cost of purlins, rafters a required. 0.63 mm thick with zinc coation Roof Total Say Painting G.I. pipes and fittings with syn priming coat, both of approved quality	te (up to nd truss ng not le 2 thetic ei	6.60 87.12 namel wh	n in horizo cluding cu 75gm/ m ² 6.60 m²	ntal/ verti tting to siz	cal or curved see and shape se	m² /m²	83766.00
	18.38	 paint on overlapping of sheets completexcluding the cost of purlins, rafters a required. 0.63 mm thick with zinc coati Roof Total say Painting G.I. pipes and fittings with syn priming coat, both of approved quality G.I. Pipe - 20mm (L) 	te (up to nd truss ng not le 2 thetic ei for new	6.60 87.12 namel wh	n in horizo cluding cu 75gm/ m ² 6.60 m²	ntal/ verti tting to siz	cal or curved see and shape see and set	m ² /m ² dy mixed	83766.00
	18.38	 paint on overlapping of sheets completexcluding the cost of purlins, rafters a required. 0.63 mm thick with zinc coati Roof Total say Painting G.I. pipes and fittings with syn priming coat, both of approved quality G.I. Pipe - 20mm (L) Purin 	te (up to nd truss ng not le 2 thetic ei for new	6.60 87.12 namel wh work 13.20	n in horizo cluding cu 75gm/ m ² 6.60 m²	ntal/ verti tting to siz	cal or curved see and shape of 87.12 87.12 87.12 961.50 pats over a rea	m ² /m ² dy mixed	83766.00

		Longitudinal Tie Beam	2	12.00				24.00	m	
		Total						24.00	m	
		say		24.00	m	@	Rs.	43.57	/m	1046.00
		Truss (3Nos)								
	18.38.3	G.I. Pipe - 25mm (L)								
		Minor Struts	6	1.00				6.00	m	
		Total						6.00	m	
		say		10.00	m	@	Rs.	21.27	/m	213.00
	С	G.I. Pipe - 40mm (L)								
		Major Strut	6	2.50				15.00	m	
		Minor Struts	6	1.74				10.44	m	
		Total						25.44	m	
		say		42.40	m	@	Rs.	29.85	/m	1266.00
	В	G.I. Pipe - 50mm (L)								
		Principle Rafter	6	3.70				22.20	m	
		Central Tie	1	2.00				2.00		
		Total						24.20	m	
		say		39.00	m	@	Rs.	35.34	/m	1378.00
	Α	G.I. Pipe - 65mm (L)								
		Tie Beam	3	6.00				18.00	m	
		Total						18.00	m	
		say		30.00	m	@	Rs.	43.57	/m	1307.00
24	LS	Unforeseen Items								217.00
		Grand Total								811000.00
		(Rเ	upees Eight Lakł	ns Eleven	Thousar	nd Only)				

		CONSTRUCTION OF 5 MLD SEWAG	SE TREA	TMENT PL	ANT AT EL	AMKULAN	Л, КОСНІ		
		TRANSFORMER HOUSING, CO	ONTROL	ROOM &	LABORATO	ORY BUILD	ING		
ltem no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount
1	2.8.1	Earth work in excavation by mechanica trenches or drains (not exceeding 1.5 ramming of bottoms, lift up to 1.5 m, i excavated soil as directed, within a lea	m in wic ncluding	Ith or 10 s getting ou	qm on pla ut the exca	n) includir	ng dressing of s	sides and	
		Column	9	1.20	1.20	1.50	19.44		
		For DR Packing							
		Long Wall	2	8.00	0.40	0.45	2.88		
		Short Wall	2	8.70	0.40	0.45	3.13		
		Total					25.45	m³	
		Say		25.45	m³	@ Rs.	243.08		6187.00
2	2.8.1+2.26.1	Extra for every additional lift of 1.5 m materials. Ordinary Rock	or part	thereof ir	excavatio	on /bankin	g excavated o	r stacked	
		Column	9	1.20	1.20	1.10	14.26		
		Total					14.26	m ³	
		Say		14.26	m³	@ Rs.	318.67	/m³	4543.00
3	4.1.8	Providing and laying in position cemer and shuttering - All work up to plinth stone aggregate 40 mm nominal size).		-	-		-	-	
		Column	9	1.20	1.20	0.20	2.59		
		Reception	1	4.00	4.00	0.10	1.60		
		Transformer Room	1	6.00	4.00	0.10	2.40		
		Passage	1	10.00	1.50	0.10	1.50		
		Staircase Room	1	3.00	5.00	0.10	1.50		
		Control Room	1	7.00	5.00	0.10	3.50		

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		Total					13.09	m ³	
		Say		13.09	m³	@ Rs.	6541.68	/m³	85644.00
4	obs	Dry rubble masonry with hard stone foundation	including	cost of all	materials,	labour ch	arges etc com	plete for	
		Long Wall	2	10.00	0.40	0.45	3.60		
		Short Wall	2	10.70	0.40	0.45	3.85		
		Total					7.45	m ³	
		say		7.45	m³	@ Rs.	3941.23	/1m³	29370.00
5	5.37.1	plant and transported to site of work manufactured as per mix design of s pumping of R.M.C. from transit mixe finishing and reinforcement, includin 9103 to accelerate/ retard setting of durability as per direction of the Eng item is @ 330 kg/cum. Excess/less separately). All works upto plinth leve	specified g er to site c ng cost of f concrete gineer - in ss cement el	rade for r f laying , , admixture , improve - charge. (used as	einforced excluding es in recon workabilit (Note :- Ce per desig	cement co the cost on mended y without ement cor gn mix is	oncrete work, of centering, sl proportions a impairing stre ntent considere payable/ rec	including huttering s per IS : ngth and ed in this coverable	
		Column Raft	9	1.00		0.40	3.60		
		Column	9	0.20			1.08 7.63		
		Plinth Beam	3	10.60			7.63		
		Ramp	0.5	3.00			1.01		
		Total	0.5	5.00	1.50	0.45	19.21		
		Say		19.21	m³	@ Rs.	9807.23		188402.00

6	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level 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).										
		Ground Floor	und Floor									
		Lintel	4	10.60	0.20	0.20	1.70					
			3	10.90	0.20	0.20	1.31					
		Stair Case	2	3.50	1.50	0.15	1.58					
		Step	24	1.50	0.30	0.15	1.62					
		Landing Slab	1	1.50	3.00	0.15	0.68					
		Sunshade	1	46.20	0.60	0.075	2.08					
		First Floor										
		Lintel	4	10.60	0.20	0.20	1.70					
			3	10.90	0.20	0.20	1.31					
		Sunshade	1	46.20	0.60	0.075	2.08					
		Total										
		say		14.04	m³	@ Rs.	10796.48	/1m³	151539.00			

7	5.37.2	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. (Note :- Cement content considered in this									
		item is @ 330 kg/cum. Excess/less separately). All works above plinth leve	cement	-							
		Ground Floor									
		Column	9	0.20	0.20	3.00	1.08				
		Beam - B1	3	10.60	0.20	0.40	2.54				
		Beam - B2	3	10.90	0.30	0.40	3.92				
		Roof Slab	1	10.90	11.60	0.15	18.97				
		First Floor									
		Column	9	0.20	0.20	3.00	1.08				
		Beam - B1	3	10.60	0.20	0.40	2.54				
		Beam - B2	3	10.90	0.30	0.40	3.92				
		Roof Slab	1	10.90	11.60	0.15	18.97				
		Total					53.03				
		Deduction									
		Staircase Room	Staircase Room 1 3.00 4.00 0.15 1.80								
		Total Deduction 1.80									
		Total less deduction									
		Say		51.23	m³	@ Rs.	10981.13	/m³	562541.00		

8	Obs	Laterate masonry with neatly dressed laterate stone of size 40X20X15cm or nearest size in cement mortar 1:6 for superstructuree above plinth level up to floor two level including all cost of materials, labour charges etc							
		Ground Floor							
		Long Wall	4	10.00	0.20	3.00	24.00		
		Short Wall	3	10.50	0.20	3.00	18.90		
		Toilet	1	3.20	0.20	2.40	1.54		
		First Floor							
		Long Wall	4	10.00	0.20	3.00	24.00		
		Short Wall	3	10.50	0.20	3.00	18.90		
		Toilet	1	3.20	0.20	2.40	1.54		
		Dosing Room	1	4.00	0.20	3.00	2.40		
		Total					91.27		
		Deduction							
		Door - D1	1	1.50	0.20	2.40	0.72		
		Door- D2	6	1.20	0.20	2.40	3.46		
		Door - D3	1	1.00	0.20	2.40	0.48		
		Door - D4	2	0.80	0.20	2.40	0.77		
		Rolling Shutter	1	3.00	0.20	3.00	1.80		
		Window W1	14	1.50	0.20	1.50	6.30		
		Ventilator V1	2	0.60	0.20	0.45	0.11		
		Stair Room - Side	2	3.00	0.20	3.00	3.60		
		Total Deduction					17.23		
		Total less deduction					74.04		
		say		74.04		@ Rs.	7056.15	-	522437.00
9	5.22.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to&above plinth level. Thermo-Mechanically Treated bars.							
		quantity as per item no 5		19.21	100	kg/m³	1921.05		

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		quantity as per item no 6		14.04	80	kg/m³	1122.88		
		quantity as per item no 7		51.23	100	kg/m³	5122.80		
		Total					8166.73		
		say		8166.73	kg	@ Rs.	82.68	/Kg	675236.00
10	5.9.1	Centering and shuttering including	g strutting, pr	opping etc	c. and rem	oval of for	m for :mass co	oncrete.	
		Raft Slab	9	4.00		0.4	14.40		
		Total					14.4	m²	
		Say		14.4	m²	@ Rs.	283.32	/m²	4080.00
11	5.9.5	Centering and shuttering including etc	g strutting, pi	ropping et	c. and rem	noval of fo	rm for :for bea	am, lintel	
		Plinth Beam -Length Wise	8	10.60		0.45	38.16		
		Plinth Beam - Width Wise	6	10.90		0.45	29.43		
		Ground Floor							
		Beam - Length Wise	6	10.60		0.40	25.44		
		Beam - Width Wise	6	10.90		0.40	26.16		
		Beam Bottom - B1	3	10.60	0.20		6.36		
		Beam Bottom - B2	3	10.90	0.30		9.81		
		Lintel - Length Wise	6	10.60		0.20	12.72		
		Lintel - Width Wise	6	10.90		0.20	13.08		
		First Floor							
		Beam - Length Wise	6	10.60		0.40	25.44		
		Beam - Width Wise	6	10.90		0.40	26.16		
		Beam Bottom - B1	3	10.60	0.20		6.36		
		Beam Bottom - B2	3	10.90			9.81		
		Lintel - Length Wise	6	10.60		0.20	12.72		
		Lintel - Width Wise	6	10.90		0.20	13.08		
		Total					254.73	m²	

		Say		254.73	m²	@ Rs.	500.91	/m²	127596.00
12	5.9.6	Centering and shuttering including stru	itting, pr	opping etc	c. and rem	oval of for	m for : Columr	าร	
		Column - Ground Floor	9	1.00		5.00	45.00		
		Column - First Floor	9	1.00		3.00	27.00		
		Total					72.00	m²	
		Say		72.00	m²	@ Rs.	683.44	/m²	49207.00
12	F 0 7	Centering and shuttering including s	strutting,	propping	g etc. and	l removal	of form for	: Stairs,	
13	5.9.7	(excluding landings) except spiral-staire	cases.						
		Stair Case	2	3.50	1.50		10.50		
		Step Rise	24	1.50		0.15	5.40		
		Step Side	48	0.50	0.30	0.15	1.08		
		Total					16.98	m²	
		Say		16.98	m²	@ Rs.	612.59	/m²	10402.00
14	5.9.3	Centering and shuttering including stru	itting, pr	opping etc	c. and rem	oval of for	m for :slab		
		Ground Floor							
		Reception	1	4.00	4.00		16.00		
		Toilet	1	1.50	1.50		2.25		
		Transformer Room	1	6.00	4.00		24.00		
		Passage	1	10.00	1.50		15.00		
		Control Room	1	7.00	5.00		35.00		
		First Floor							
		Visitors Room	1	4.00	4.00		16.00		
		Toilet	1	1.50	1.50		2.25		
		Dosing Room	1	3.00	4.00		12.00		
		Store Room	1	2.80	4.00		11.20		
		Passage	1	10.00	1.50		15.00		
		Staircase Room	1	3.00	5.00		15.00		
		Laboratory	1	7.00	5.00		35.00		

		Sunshade	2	46.20	0.675		62.37		
		Slab Edge	2	45.00	0.30		27.00		
		Total					288.07	m²	
		Say		288.07	m²	@ Rs.	616.90	/m	177709.00
15	2.25	Filling available excavated earth (exclusion layers not exceeding 20cm in depth,	•			-			
15	2.25	lead up to 50 m and lift up to 1.5 m.	consonae	ting each	deposited	layer by I		watering,	
		Reception	1	4.00	4.00	0.35	5.60		
		Transformer Room	1	6.00	4.00	0.35	8.40		
		Passage	1	10.00	1.50	0.35	5.25		
		Staircase Room	1	3.00	5.00	0.35	5.25		
		Control Room	1	7.00	5.00	0.35	12.25		
		Total					36.75		
				26.75	. 3	• •	400 70	1 2	
		say Providing and fixing 16 mm M.S. Fa	In clamps	36.75 s of stand		@ Rs. and size	183.70 in existing R.	-	6751.00
16	14.12	-	imp to re	s of stand inforceme	ard shape nt bar, ind	and size	in existing R. aning, refilling	C.C. slab g, making	6751.00
16	14.12	Providing and fixing 16 mm M.S. Fa including cutting chase, anchoring cla good the chase with matching concre	imp to re	s of stand inforceme	ard shape nt bar, ind	and size	in existing R. aning, refilling	C.C. slab g, making e clamps	6751.00
16	14.12	Providing and fixing 16 mm M.S. Fa including cutting chase, anchoring cla good the chase with matching concre complete.	imp to re ete, plaste	s of stand inforceme	ard shape nt bar, ind	and size	in existing R. aning, refilling I portion of th	C.C. slab g, making e clamps Nos	6751.00
16	14.12	Providing and fixing 16 mm M.S. Fa including cutting chase, anchoring cla good the chase with matching concre complete.	imp to re ete, plaste	s of stand inforceme	ard shape nt bar, inc painting th	and size	in existing R. aning, refilling portion of th 12.00	C.C. slab g, making e clamps Nos Nos	6751.00 4549.00
16	14.12	Providing and fixing 16 mm M.S. Fa including cutting chase, anchoring cla good the chase with matching concre complete. LS Total	12	s of stand inforceme ering and p 12.00	ard shape ont bar, inc painting th Nos	and size cluding cle le exposed	in existing R. aning, refilling portion of th 12.00 12.00	C.C. slab g, making e clamps Nos Nos	
		Providing and fixing 16 mm M.S. Fa including cutting chase, anchoring cla good the chase with matching concre complete. LS Total say	12	s of stand inforceme ering and p 12.00	ard shape ont bar, inc painting th Nos	and size cluding cle le exposed	in existing R. aning, refilling portion of th 12.00 12.00	C.C. slab g, making e clamps Nos Nos	
		Providing and fixing 16 mm M.S. Fa including cutting chase, anchoring cla good the chase with matching concre complete. LS Total say 12 mm cement plaster of mix : 1:4 (1	12	s of stand inforceme ering and p 12.00	ard shape ont bar, inconting the painting the Nos	and size cluding cle le exposed	in existing R. aning, refilling portion of th 12.00 12.00	C.C. slab g, making e clamps Nos Nos /Each	
		Providing and fixing 16 mm M.S. Fa including cutting chase, anchoring cla good the chase with matching concre complete. LS Total say 12 mm cement plaster of mix : 1:4 (1 Ground Floor	12 12 cement: 4	s of stand inforceme ering and p 12.00 fine sand	ard shape ont bar, inc painting th Nos	@ Rs.	in existing R. Paning, refilling portion of th 12.00 12.00 379.08	C.C. slab g, making e clamps Nos Nos /Each	
		Providing and fixing 16 mm M.S. Fa including cutting chase, anchoring cla good the chase with matching concre complete. LS Total say 12 mm cement plaster of mix : 1:4 (1 Ground Floor Building Outside	12 12 cement: 4	s of stand inforceme ering and p 12.00 I fine sand 43.80	ard shape ont bar, inc painting th Nos	@ Rs. 3.95	in existing R. Paning, refilling portion of th 12.00 12.00 379.08	C.C. slab g, making e clamps Nos Nos /Each	

		Reception	1	4.00	4.00		16.00		
		Ground Floor - Ceiling			-				
18	13.17	thick coat of Lime wash on top of walls		-		-			
4.0	40.45	6 mm cement plaster 1:3 (1 cement:	3 fine sa			floating co	bat of neat cer	ment and	
		Say		657.54	m²	@ Rs.	252.65	/m²	166124.00
		Total less deduction					657.54		
		Total Deduction					104.16		
		Stair Room - Side	4	3.00		3.00	36.00		
		Ventilator V1	2	0.60		0.45	0.54		
		Window W1	14	1.50		1.50	31.50		
		Rolling Shutter	1	3.00		3.00	9.00		
		Door - D4	2	0.80		2.40	3.84		
		Door - D3	1	1.00		2.40	2.40		
		Door- D2	6	1.20		2.40	17.28		
		Door - D1	1	1.50		2.40	3.60		
		Deduction					, 01.70		
		Total	<u> </u>	2 1.00		3.50	761.70		
		Laboratory	1	24.00		3.50	84.00		
		Staircase Room	1	16.00		3.50			
		Passage	1	23.40		3.50	81.90		
		Store Room	1	14.00		3.50	49.00		
		Toilet Dosing Room	1 1	6.00 14.00		2.40 3.50	14.40 49.00		
		Visitors Room	1	16.00		3.50	56.00		
		First Floor		10.00					
		Staircase Room	1	16.00		3.50	56.00		
		Control Room	1	24.00		3.50			
		Meter Reading Room	2	1.50		3.50			
		Passage	1	23.40		3.50			

		Toilet	1	1.50	1.50		2.25		
		Transformer Room	1	6.00	4.00		24.00		
		Passage	1	10.00	1.50		15.00		
		Control Room	1	7.00	5.00		35.00		
		Staircase Room	1	3.00	5.00		15.00		
		First Floor - Ceiling							
		Visitors Room	1	4.00	4.00		16.00		
		Toilet	1	1.50	1.50		2.25		
		Dosing Room	1	3.00	4.00		12.00		
		Store Room	1	2.80	4.00		11.20		
		Passage	1	10.00	1.50		15.00		
		Staircase Room	1	3.00	5.00		15.00		
		Laboratory	1	7.00	5.00		35.00		
		Sunshade	2	46.20	0.675		62.37		
		Slab Edge	2	45.00	0.30		27.00		
		Total					303.07	m²	
		Say		303.07		@ Rs.	281.72	-	85379.00
		Providing and laying vitrified floor manufacturer) with water absorption			-		•	-	
19	11.41.2	make in all colours and shades, laid of	n 20mm	thick cem	ient morta	ar 1:4 (1 c	ement : 4 coa	rse sand)	
		including grouting the joints with whit	te cemei	nt and ma	tching pig	ments etc	., complete.Siz	ze of Tile	
		600x600 mm							
		Ground Floor - Ceiling							
		Reception	1	4.00	4.00		16.00		
		Transformer Room	1	6.00	4.00		24.00		
		Passage	1	10.00	1.50		15.00		
		Control Room	1	7.00	5.00		35.00		
		Staircase Room	1	3.00	5.00		15.00		
		Step - Tread	24	1.50	0.30		10.80		

		Step - Rise	24	1.50		0.15	5.40		
		First Floor - Ceiling							
		Visitors Room	1	4.00	4.00		16.00		
		Dosing Room	1	3.00	4.00		12.00		
		Store Room	1	2.80	4.00		11.20		
		Passage	1	10.00	1.50		15.00		
		Laboratory	1	7.00	5.00		35.00		
		Skirting - GF							
		Reception	1	16.00		0.10	1.60		
		Transformer Room	1	20.00		0.10	2.00		
		Passage	1	23.40		0.10	2.34		
		Meter Reading Room	2	1.50		0.10	0.30		
		Control Room	1	24.00		0.10	2.40		
		Staircase Room	1	16.00		0.10	1.60		
		Skirting - FF							
		Visitors Room	1	16.00		0.10	1.60		
		Dosing Room	1	14.00		0.10	1.40		
		Store Room	1	13.60		0.10	1.36		
		Passage	1	23.40		0.10	2.34		
		Staircase Room	1	16.00		0.10	1.60		
		Laboratory	1	24.00		0.10	2.40		
		Total					231.34		
		Say		231.34	m²	@ Rs.	1635.22	/m²	378292.00
		Providing and laying rectified Glazed	Ceramic	c floor tile	es 300x300	0 mm or	more (thickne	ess to be	
20	11.39	specified by the manufacturer) of 1st	quality c	onforming	to IS : 15	622 of ap	proved make in	n colours	
20	11.35	White, Ivory, Rey, Fume Red Brown,	aid on 2	20mm thic	k cement	mortar 1:	4 (1Cement :	4 Coarse	
		sand) including grouting the joints with	white c	ement and	d matching	pigments	etc., complete	e.	
		For Floor - Toilet	2	1.50	1.50		4.50		
		Total					4.50	m²	

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		Say		4.50	m²	@ Rs.	1201.43	/m²	5406.00				
		Providing and fixing Ist quality cerami	c glazed	wall tiles	conformi	ng to IS :	15622 (thickne	ess to be					
		specified by the manufacturer) of ap	proved	make in a	II colours,	, shades e	xcept burgund	ly, bottle					
21	11.36	green, black of any size as approved by	' Enginee	er-in-Charg	ge, in skirti	ing, risers	of steps and da	idos over					
		12 mm thick bed of cement Mortar 1	:3 (1 cer	ment:3 c	oarse san	d) and joi	nting with grey	y cement					
		slurry @ 3.3kg per sqm including point	ing in wh	nite cemer	nt mixed w	ith pig							
		Wall Tile	2	6.00		2.40	28.80						
		Total					28.80	m²					
		Say		28.80	m²	@ Rs.	1088.00	/m²	31335.00				
		Supplying and fixing rolling shutters of	approve	d make, m	hade of re	quired size	e M.S. laths, int	terlocked					
		together through their entire length	and join	ted togetl	her at the	e end by e	end locks, mo	unted on					
		specially designed pipe shaft with brackets, side guides and arrangements for inside and outside											
		specially designed pipe share with bie	lonces, s	0	locking with push and pull operation complete, including the cost of providing and fixing necessary								
22	10.6.1	. ,	-	•		of providi	ng and fixing r	necessary					
22	10.6.1	. ,	omplete	, including	g the cost	-		-					
22	10.6.1	locking with push and pull operation c	complete tured fr	e, including rom high	g the cost tensile s	teel wire	of adequate	strength					
22	10.6.1	locking with push and pull operation c 27.5 cm long wire springs manufac	complete tured fr M.S. to	e, including rom high op cover o	g the cost tensile s	teel wire	of adequate	strength					
22	10.6.1	locking with push and pull operation c 27.5 cm long wire springs manufac conforming to IS: 4454 -part 1 and	complete tured fr M.S. to	e, including rom high op cover o	g the cost tensile s	teel wire	of adequate ss for rolling	strength shutters.					
22	10.6.1	locking with push and pull operation c 27.5 cm long wire springs manufac conforming to IS: 4454 -part 1 and 80x1.25mm M.S. laths with 1.25 mm th	complete tured fr M.S. to nick top (e, including rom high op cover o cover.	g the cost tensile s	teel wire d thickne	of adequate ss for rolling	strength shutters.					
22	10.6.1	locking with push and pull operation of 27.5 cm long wire springs manufac conforming to IS: 4454 -part 1 and 80x1.25mm M.S. laths with 1.25 mm th For Transformer Room	complete tured fr M.S. to nick top (e, including rom high op cover o cover.	g the cost tensile s of require	teel wire d thickne	of adequate ss for rolling 9.00	strength shutters. m ²					
22	10.6.1	locking with push and pull operation of 27.5 cm long wire springs manufact conforming to IS: 4454 -part 1 and 80x1.25mm M.S. laths with 1.25 mm th For Transformer Room Total	complete tured fr M.S. to nick top o	e, including rom high p cover o cover. 3.00 9.00	g the cost tensile s of require m ²	teel wire d thickne 3.00 @ Rs.	of adequate ss for rolling 9.00 9.00 3383.36	strength shutters. m ² /m ²	30450.00				
		locking with push and pull operation of 27.5 cm long wire springs manufact conforming to IS: 4454 -part 1 and 80x1.25mm M.S. laths with 1.25 mm th For Transformer Room Total Say	complete tured fr M.S. to nick top o 1 sosible ste	e, including rom high op cover o cover. 3.00 9.00 eel shutte	g the cost tensile st of require m ² rs with ve	teel wire d thickne 3.00 @ Rs. ertical cha	of adequate ss for rolling 9.00 9.00 3383.36 nnels 20x10x2	strength shutters. m ² /m ² mm and	30450.00				
22	10.6.1	locking with push and pull operation of 27.5 cm long wire springs manufact conforming to IS: 4454 -part 1 and 80x1.25mm M.S. laths with 1.25 mm th For Transformer Room Total Say Providing and fixing in position collap	complete tured fr M.S. to nick top o 1 osible sto m size, v	e, including rom high p cover o cover. 3.00 9.00 eel shutte with top a	g the cost tensile s of require m² rs with ve and bottor	teel wire d thickne 3.00 @ Rs. ertical cha n rail of T	of adequate ss for rolling 9.00 9.00 3383.36 nnels 20x10x2 -iron 40x40x6r	strength shutters. m ² /m ² mm and nm, with	30450.00				
		locking with push and pull operation of 27.5 cm long wire springs manufact conforming to IS: 4454 -part 1 and 80x1.25mm M.S. laths with 1.25 mm th For Transformer Room Total Say Providing and fixing in position collars braced with flat iron diagonals 20x5m	mick top of the size, we bolts, nu	e, including rom high p cover of cover. 3.00 9.00 eel shutte with top a uts, locking	g the cost tensile s of require m² rs with ve and bottor	teel wire d thickne 3.00 @ Rs. ertical cha n rail of T	of adequate ss for rolling 9.00 9.00 3383.36 nnels 20x10x2 -iron 40x40x6r	strength shutters. m ² /m ² mm and nm, with	30450.00				
		locking with push and pull operation of 27.5 cm long wire springs manufact conforming to IS: 4454 -part 1 and 80x1.25mm M.S. laths with 1.25 mm th For Transformer Room Total Say Providing and fixing in position collapt braced with flat iron diagonals 20x5m 40mm dia steel pulleys, complete with	mick top of the size, we bolts, nu	e, including rom high p cover of cover. 3.00 9.00 eel shutte with top a uts, locking	g the cost tensile so of require m² rs with ve and bottor g arranger	teel wire d thickne 3.00 @ Rs. ertical cha n rail of T	of adequate ss for rolling 9.00 9.00 3383.36 nnels 20x10x2 -iron 40x40x6r pers, handles,	strength shutters. m ² /m ² mm and nm, with including	30450.00				
		locking with push and pull operation of 27.5 cm long wire springs manufact conforming to IS: 4454 -part 1 and 80x1.25mm M.S. laths with 1.25 mm th For Transformer Room Total Providing and fixing in position collapt braced with flat iron diagonals 20x5m 40mm dia steel pulleys, complete with applying a priming coat of approved steel	omplete tured fr M.S. to nick top o 1 sible sto m size, w bolts, nu eel prime	e, including rom high p cover o cover. 3.00 9.00 eel shutte with top a uts, locking er.	g the cost tensile so of require m² rs with ve and bottor g arranger	teel wire d thickne 3.00 @ Rs. ertical cha n rail of T ment, stop	of adequate ss for rolling 9.00 9.00 3383.36 nnels 20x10x2 -iron 40x40x6r pers, handles,	strength shutters. m ² /m ² mm and nm, with including	30450.00				

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		Door - D3 Total Approx. Wt. of frame @ 6.5 kg/sqm Total		0.95		2.36	2.24 45.72 297.15 297.15	m² kg		
		Total	1	0.95		2.36	45.72	m²		
			1	0.95		2.36				
		Door - D3	1	0.95		2.36	2.24			
	1									
		Door- D2	6	1.16		2.36	16.43			
		Ventilator	2	0.52		0.42	0.44			
		for window shutter-W1	42	0.44		1.44	26.61			
	21.1.2.1	For shutters of doors, windows & v making provision for fixing of fitting neoprene gasket required (Fittings sl transparent or dyed to required shade 15)	s where hall be p	ver requi baid for se	red includ eparately)	ing the co :Anodised	ost of EPDM d aluminium (rubber / anodised		
25		Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :								

26		Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.								
	21.2.1	Pre-laminated particle board with de other side.	corative	laminatio	n on one	side and b	alancing lamir	nation on		
		Door- D2	6	1.10		2.29	15.11			
		Door - D3	1	0.90		2.29	2.06			
		Total					17.18	m²		
		Say	17.18	m²	@ Rs.	1207.13	/1m²		20732.00	
27	21.3.2	EPDM rubber / neoprene gasket etc. of engineer-in-charge.(Cost of alumin panes of 5.50 mm thickness	ium snap	beading		id in basic	item): With f	loat glass		
		for window shutter-W1	42	0.44		1.44	26.61			
		Ventilator	2	0.52		0.42	0.44			
		Total					27.05	m²		
		say	27.05	m²	@ Rs.	1466.57	/1m²		39668.00	
28	9.48.2	Providing and fixing M.S. grills of requored or round bars etc. including priming openings /wooden frames with rawl p	g coat w	ith appro						
		for Windows								
		Windows- W1	14	1.50)	1.50	31.50	m²		
		Ventilator V1	2	0.60)	0.45				
		Total					32.04	m²		

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		Approx. Wt. of grill @ 17kg/sqm					544.68	kg	
		Total					544.68	kg	
		Say	544.68	kg	@ Rs.	164.27	/1kg		89473.00
		Providing and fixing factory made uP	VC door	frame m	ade of ul	PVC extru	ded sections h	naving an	
		overall dimension as below (tolerance	e ±1mm)	, with wal	l thicknes	s 2.0 mm	(± 0.2 mm), c	orners of	
		the door frame to be Jointed with gal	vanized l	brackets a	nd stainle	ss steel sc	rews, joints m	itred and	
29	9.117.1	Plastic welded. The hinge side vertical	of the fr	ames rein	forced by	galvanize	d M.S. tube of	size 19 X	
		19 mm and 1mm (± 0.1 mm) wall th	ickness	and 3 nos	. stainles	s steel hin	ges fixed to t	he frame	
		complete as per manufacturer's specif	fication a	and direct	ion of Eng	ineer-in-c	harge. Extrude	d section	
		profile size 48x40 mm							
		for doors	2	5.1			10.20	m	
		Total					10.20	m	
		Say	10.20	m	@ Rs.	316.70	/m		3230.00
		25 mm thick PVC flush door shutters n	nade out	t of a one	piece Mu	lti chambe	er extruded PV	C section	
		of the size of 762 mm X 25 mm or less	as per re	equiremen	t with an	average w	all thickness of	⁻ 1 mm (±	
		0.3 mm). PVC foam end cap of size 2	3x10 mr	n are prov	vided on b	ooth vertio	cal edges to er	nsure the	
		overall thickness of 25 mm. M.S. tube	having d	imensions	19 mm x	19 mm an	id 1.0 mm (± 0	.1 mm) is	
20	0.440.0	inserted along the hinge side of the do	or. Core	of the doo	or shutter	should be	filled with Hig	h Density	
30	9.118.3	Polyurethane foam. The Top & Bottom	n edges o	of the shut	ter are co	vered witl	h an end-cap o	f the size	
		25 mm X 11 mm. Door shutter shall	be reinf	orced wit	h special	polymeric	reinforcemen	ts as per	
		manufacturer's specification and direct	tion of E	ngineer-in	-charge to	o take up r	necessary hard	ware and	
		fixtures. Stickers indicating the locatior	ns of har	dware will	be pasted	d at appro	oriate places.		
		for doors	2	0.8		2.1	3.36	m²	
		Total					3.36	m²	
		Say	3.36	m²	@ Rs.	3147.66	/m²		10576.00

31	13.84.2	150 grams/ litre, of approved brand a	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats.window&ventilator grills									
		for windows -grills										
		Windows- W1	14	1.50		1.50	31.50	m²				
		Ventilator V1	2	0.60		0.45	0.54					
		Rolling Shutter	2.25	3.00		3.00	20.25					
		Collapsible Gate	2.25	1.50		3.00	10.13					
		Total					62.42	m²				
		say	62.42	m²	@ Rs.	109.56	/m²		6839.00			
32	13.8	Providing and applying white cement and manufacturer, over the plaster complete.	•	•	-		•••					
		Quantity as per item no 15					657.54					
		Quantity as per item no 16	2	6.60		3.00						
		Total					960.61	m²				
		say	960.61		@ Rs.	127.60			122575.00			
33	13.43.1	Applying one coat of water thinnable surface : water thinnable cement prim		primer of	approved	l brand an	d manufactur	e on wall				
		quantity as per item no 29					960.61					
		Total					960.61	m²				
		say	960.61	m²	@ Rs.	53.98	/1m²		51850.00			
34	13.82.2	Wall painting with acrylic emulsion p than 50 grams/ litre, of approved b wherever required, to achieve even sh	orand an	d manufa	cture, inc	-	•					
		quantity as per item no 29					960.61					
		Total					960.61	m²				

		say	960.61	m²	@ Rs.	107.95	/1m ²		103701.00
		Providing and fixing white vitreous chi	na pedes	stal type v	vater close	et (Europe	an type W.C. p	oan) with	
		seat and lid, 10 litre low level white	P.V.C. 1	flushing ci	stern, inc	luding flu	sh pipe, with	manually	
35	17.2.1	controlled device (handle lever), conf	orming t	to IS : 72	31, with a	all fittings	and fixtures c	omplete,	
		including cutting and making good the	he walls	and floo	rs wherev	ver requir	ed : W.C. pan	with ISI	
		marked white solid plastic seat and lid							
		LS	2				2.00	nos	
		Say		2.00	Nos	@ Rs.	4994.04	/Each	9988.00
		Providing and fixing wash basin with	C.I. bracl	kets, 15 m	nm C.P. br	ass pillar	taps, 32 mm C	C.P. brass	
36	17.7.2	waste of standard pattern, including p	ainting o	of fittings	and brack	ets, cuttin	g and making	good the	
50	17.7.2	walls wherever require : White Vitreo	us China	ı Wash ba	sin size 63	30x450 m	m with a singl	e 15 mm	
		C.P. brass pillar tap							
		LS	2				2.00	nos	
		Say		2.00	Nos	@ Rs.	2951.69	/Each	5903.00
		Providing and fixing CPVC pipes, havir	ng therm	al stability	y for hot 8	& cold wa	ter supply, inc	luding all	
		CPVC plain & brass threaded fittings, i,	/c fixing t	the pipe w	ith clamp	s at 1.00 i	m spacing. This	includes	
37		jointing of pipes & fittings with one s	tep CPV0	C solvent of	cement ar	nd the cos	t of cutting ch	ases and	
		making good the same including testir	ng of joir	its comple	ete as per	direction	of Engineer in	Charge. :	
		Concealed work, including cutting chas	es and m	naking goo	d the wall	ls etc.			
а	18.9.2	20mm Dia							
		LS	1	25.00			25.00	m	
		Say		25	m	@ Rs.	218.10	/m	5452.00
b	18.9.3	25mm Dia							
		LS	1	25.00			25.00	m	
		Say		25	m	@ Rs.	279.96	/m	6999.00
С	18.9.4	32mm Dia							
		LS	1	25.00			25.00	m	

		Say		25	m	@	Rs.	366.00	/m	9150.00
38	Obs	Providing and fixing uPVC pipes in testing of joints complete as per dir			•		step	uPVC solvent	cement ,	
а		110mm dia 6Kgf/cm²								
		LS	1	50.00				50.00	m	
		Say		50	m	@	Rs.	432.62	/m	21631.00
b		63mm dia 6Kgf/cm²								
		LS	1	50.00				50.00	m	
		Say		50	m	@	Rs.	224.57	/m	11229.00
39	OBS	Providing and fixing the following cement -	moulded fit	ting for ri	gid uPV(C pipes	inclu	iding with uPV	C solvent	
а		63mm dia elbow.						2nos		
		S	ay	2.00	nos	@	Rs.	180.68	/each	361.00
b		110 mm dia elbow.						2nos		
		S	ay	2.00	nos	@	Rs.	400.91	/each	802.00
d		63 mm dia bend						2nos		
		S	ay	2.00	nos	@	Rs.	180.68	/each	361.00
е		110 mm dia bend						2nos		
		9	ay	2.00	nos	@	Rs.	400.91	/each	802.00
		-			-			1	ĺ	
g		63x63x63mm dia Tee						2nos		
g		63x63x63mm dia Tee	Say	2.00	nos	@	Rs.	2nos 223.32	/each	447.00
g h		63x63x63mm dia Tee	Say	2.00	nos	@	Rs.		/each	447.00

40	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931: 15 mm nomina bore.								
			2				2.00	nos		
		Say		2.00	Nos	@ Rs.	542.98		1086.00	
41	18.19.1.2	Providing and fixing gun metal non- ret Bore Vertical	turn valv	e of appro	ved qua	lity (screwe	d end) : 25mm	Nominal		
			2				2.00	nos		
		Say		2.00	Nos	@ Rs.	633.55	/Each	1267.00	
42	18.58.2.1	Providing and fixing PTMT grating of a circular lid. 150 mm nominal size squar				-				
			2				2.00	nos		
		Say		2.00	Nos	@ Rs.	219.19	/Each	438.00	
43	17.32.4	Providing and fixing mirror of superio with plastic moulded frame of approv Rectangular shape 1500x450 mm			-					
			2				2.00	nos		
		Say		2.00	Nos	@ Rs.	1932.78	/Each	3866.00	
44	18.48	Providing and placing on terrace (at a marked, with cover and suitable locking and overflow pipes but without fittings	ng arran	gement a	nd makiı	ng necessar	y holes for inle			
	1	LS	1	2000.00			2000.00	Ltr		
		Say		2000.00	Ltr	@ Rs.	10.59	Ltr	21182.00	

45	MR	Providing and Fixing water tra required discharge at suitable with necessary cabling for the a	head to work on	3 phase 50Hz, 44	•	•		
		LS	2			2.00	nos	
		Say		2 Nos	@ Rs.	35000.00	/Each	70000.00
46	MR	Construction of Cable trenching	g of sufficient dep	th including the (Chequered pla	ates as cover		
		LS	1			1.00	nos	
		Say		1.00 Nos	@ Rs.	50000.00	/Each	50000.00
47	LS	Unforeseen Items						732.00
		Grand Total	<u> </u>					4300000.00
			(Rupees Forty Tw	vo Three Lakhs O)nly)			

		CONSTRUCTION OF 5 MLD SEWA				AMKULAN	Л, КОСНІ					
	-	CENT	RIFUGE	BUILDING								
ltem no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount			
		Earth work in excavation by mechanic	al means	s (Hydrauli	c excavato	or) / manu	al means in fo	undation				
	2.0.4	trenches or drains (not exceeding 1.5	m in wid	th or 10 s	qm on pla	n) includin	ng dressing of s	sides and				
1	2.8.1	ramming of bottoms, lift up to 1.5 m, i	ncluding	getting ou	ut the exca	vated soil	and disposal c	of surplus				
		excavated soil as directed, within a lea	d of 50 n	n. All kind	of soils.							
		Column	6	1.20	1.20	1.50	12.96					
		Total					12.96	m ³				
		Say		12.96	m³	@ Rs.	243.08	/m³	3150.00			
2	2.8.1+2.26.1	xtra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked naterials. Ordinary Rock										
		Column	6	1.20	1.20	1.10	9.50					
		Total					9.50	m ³				
		Say		9.50	m ³	@ Rs.	318.67	/m³	3029.00			
		Providing and laying in position ceme	nt concre	ete of spe	cified grad	e excludin	g the cost of a	centering				
3	4.1.8	and shuttering - All work up to plinth	n level :	1:4:8 (1 C	ement:4	coarse sa	and(zone-III):	8 graded				
		stone aggregate 40 mm nominal size).										
		Column	6	1.20	1.20	0.20	1.73					
		For Plinth Beam	2	6.10	0.30	0.10	0.37					
			2	7.90	0.30	0.10	0.47					
		Plinth Inside	1	9.70	6.70	0.10	6.50					
		Total					9.07	m ³				
				9.07								

		Providing and laying in position ready	mixed N	И-25 grad	e concrete	for reinfo	orced cement	concrete	
		work, using cement content as per ap	•	-			•	-	
		plant and transported to site of work in				0	•	-	
		manufactured as per mix design of sp	-					-	
		pumping of R.M.C. from transit mixer			-		-	-	
4	5.37.1	finishing and reinforcement, including							
		9103 to accelerate/ retard setting of c		•		-		-	
		durability as per direction of the Engir		-	•				
		item is @ 330 kg/cum. Excess/less	cement	used as	per desi	gn mix is	payable/ rec	overable	
		separately). All works upto plinth level							
			-	-					
		Column Raft	6	1.00	1.00	0.40	2.40		
		Column	6	0.30	0.30	2.00	1.08		
		Plinth Beam	3	7.60	0.30	0.45	3.08		
			3	9.70	0.30	0.45	3.93		
		Total					10.49		
		Say		10.49	m³	@ Rs.	9807.23	/m³	102843.00
		Reinforced cement concrete work in be	eams, su	spended f	loors, roof	s having sl	lope up to 15°	landings,	
		balconies, shelves, chajjas, lintels, ban	ds, plain	window	sills, stairc	ases and s	spiral stair case	es above	
5	5.3	plinth level up to floor five level,	excludin	g the co	st of cent	ering, sh	uttering, finish	ning and	
		reinforcement, with 1:1.5:3 (1 cement	: 1.5 coa	rse sand (zone-III) :	3 graded s	stone aggregat	e 20 mm	
		nominal size).							
		Lintel - First Floor	2	7.60	0.20	0.20	0.61		
			2	10.00	0.20	0.20	0.80		
		Sunshade - First Floor	1	38.80	0.60	0.075	1.75		
		Total					3.15	m ³	
		say		3.15		@ Rs.	10796.48	14 3	34052.00

6	5.37.2	Providing and laying in position read work, using cement content as per a plant and transported to site of work manufactured as per mix design of s pumping of R.M.C. from transit mixe finishing and reinforcement, includin 9103 to accelerate/ retard setting of durability as per direction of the Eng item is @ 330 kg/cum. Excess/les separately). All works above plinth lev	pproved of in transit pecified g r to site of g cost of concrete, sineer - in s cement	design mix mixer for rade for r f laying , , admixture , improve - charge.	, manufac all leads, h einforced excluding es in recon workability (Note :- Ce	tured in fundation for the cost of the cost of the cost the cost of the cost of the cost the cost of the cost the cost of the cost o	ully automatic batchin tinuous agitated mixed oncrete work, includin of centering, shutterin proportions as per IS impairing strength an itent considered in thi	g g g : d s
		Ground Floor						
		Column	6	0.30	0.30	3.50	1.89	
		Beam	3	7.60	0.30	0.20	1.37	
			3	9.70	0.30	0.20	1.75	
		Slab	1	10.60	7.60	0.30	24.17	
		First Floor						
		Column	6	0.30	0.30	3.55	1.92	
		Beam	3	7.60	0.30	0.20	1.37	
			3	9.70	0.30	0.20	1.75	
		Slab	1	10.60	7.60	0.15	12.08	
		Total					46.29	
		Say		46.29	m³	@ Rs.	10981.13 /m³	508283.00
7	Obs	Laterate masonry with neatly dresse mortar 1:6 for superstructuree above labour charges etc						
		First Floor						
		Long Wall	2	9.70	0.20	3.55	13.77	
		Short Wall	2	7.00	0.20	3.55	9.94	

		Total					23.71		
		Deduction - Door	1	1.50	0.20	2.40	0.72		
		Total Less Deduction					22.99		
		say		22.99	m³	@ Rs.	7056.15	/m³	162249.00
8	5.22.6	Steel reinforcement for R.C.C. wor binding all complete up to&above	-	-		-		ition and	
		quantity as per item no 4		10.49	120	kg/m³	1258.38		
		quantity as per item no 5		3.15	80	kg/m³	252.32		
		quantity as per item no 6		46.29	120	kg/m³	5554.44		
		Total					7065.14		
		say		7065.14	kg	@ Rs.	82.68	/Kg	584155.00
9	5.9.1	Centering and shuttering including	strutting, pr	opping etc	and remo	oval of fori	n for :mass co	ncrete.	
		Raft Slab	6	4.00		0.4	9.60		
		Total					9.6	m²	
		Say		9.6	m²	@ Rs.	283.32	/m²	2720.00
10	5.9.5	Centering and shuttering including etc	g strutting, pi	opping et	c. and rem	ioval of fo	rm for :for bea	am, lintel	
		Plinth Beam Outside	1	36.40		0.45	16.38		
		Plinth Beam Inside	2	10.00		0.45	9.00		
			4	7.00		0.45	12.60		
		Lintel Outside	1	36.40		0.20	7.28		
		Lintel Inside side	1	34.00		0.20	6.80		
		Ground Floor							
		Beam Outside	1	36.40		0.45	16.38		
		Beam Inside side	4	10.00		0.45	18.00		
	1			7 00		0.45	12.60		
			4	7.00		0.45	12.00		

			3	7.00	0.30		6.30		
		First Floor							
		Beam Outside	1	36.40		0.45	16.38		
		Beam Inside side	4	10.00		0.45	18.00		
			4	7.00		0.45	12.60		
		Beam Bottom	3	9.70	0.30		8.73		
			3	7.00	0.30		6.30		
		Total					176.08	m²	
		Say		176.08	m²	@ Rs.	500.91	/m²	88200.00
11	5.9.6	Centering and shuttering including stru	tting, pr	opping etc	. and remo	oval of fori	m for : Columr	IS	
		Column	6	1.2		9.05	65.16		
		Total					65.16	m²	
		Say		65.16	m²	@ Rs.	683.44	/m²	44533.00
1	5.9.3	Centering and shuttering including stru	itting, pr	opping etc	. and remo	oval of for	m for :slab		
		Ground Floor - Slab	1	9.70	6.70		64.99		
		First Floor	1	9.70	6.70		64.99		
		Sunshade	1	38.80	0.60		23.28		
		Slab Edge - GF + FF	2	36.40	0.45		32.76		
		Total					121.03	m²	
		Say		121.03	m²	@ Rs.	616.90	/m	74663.00
		Filling available excavated earth (exc	luding ro	ock) in tre	nches, plii	nth, sides	of foundation	is etc. in	
12	2.25	layers not exceeding 20cm in depth, of lead up to 50 m and lift up to 1.5 m.	consolida	ting each	deposited	layer by r	ramming and v	watering,	
		Inside	1	9.70	6.70	0.35	22.75		
		Total					22.75		
		say		22.75	m³	@ Rs.	183.70	/m³	4178.00
13	13.1.1	12 mm cement plaster of mix : 1:4 (1 c	ement: 4	fine sand)	1			
			1	1					

		Building Outside	1	36.40		4.45	161.98		
		Building Inside	1	34.00		4.00	136.00		
		Total					297.98		
		Deduction - Door	1	1.50	0.20	2.40	0.72		
		Total Less Deduction					297.26		
		Say		297.26	m²	@ Rs.	252.65	/m²	75101.00
14	13.17	6 mm cement plaster 1:3 (1 cement: thick coat of Lime wash on top of walls		•		0		ment and	
		Ground Floor							
		Column	6	1.20		3.70	26.64		
		Roof Ceiling	1	10.00	7.00		70.00		
		Beam Side	6	7.00		0.20	8.40		
			6	10.00		0.20	12.00		
		First Floor - Ceiling							
		Roof Ceiling	1	10.00	7.00		70.00		
		Beam Side	6	7.00		0.20	8.40		
			6	10.00		0.20	12.00		
		Sunshade	1	38.80	0.675		26.19		
		Total					233.63	m²	
		Say		233.63		@ Rs.	281.72	•	65817.00
		Providing and laying vitrified floor	tiles in	different	sizes (thi	ckness to	be specified	l by the	
		manufacturer) with water absorption				-			
14	11.41.2	make in all colours and shades, laid o				•		,	
		including grouting the joints with whi 600x600 mm	te cemei	nt and ma	tching pig	ments etc	., complete.Siz	ze of Tile	
		First Floor							
		Inside	1	10.00	7.00		70.00		
	Ì	Skirting - Store Room	1	34.00		0.10	3.40		
		Total					73.40	m²	

		Say		73.40	m²	@ Rs.	1635.22 /m²	120025.00
15	13.8	Providing and applying white cement and manufacturer, over the plaster complete.	-	-	-			
		Ground Floor						
		Column	6	1.20		3.70	26.64	
		Roof Ceiling	1	10.00	7.00		70.00	
		Beam Side	6	7.00		0.20	8.40	
			6	10.00		0.20	12.00	
		First Floor - Ceiling						
		Building Outside	1	36.40		4.45	161.98	
		Building Inside	1	34.00		4.00	136.00	
		Roof Ceiling	1	10.00	7.00		70.00	
		Beam Side	6	7.00		0.20	8.40	
			6	10.00		0.20	12.00	
		Sunshade	1	38.80	0.675		26.19	
		Total					531.61	
		Deduction - Door	1	1.50	0.20	2.40	0.72	
		Total Less Deduction					530.89	
		say	530.89	m²	@ Rs.	127.60	/1m ²	67742.00
16	13.43.1	Applying one coat of water thinnable surface : water thinnable cement prim		primer of	approvec	l brand ar		vall
		quantity as per item no 15					530.89	
		Total					530.89 m ²	
		say	530.89	m²	@ Rs.	53.98	/1m ²	28656.00
17	13.82.2	Wall painting with acrylic emulsion p than 50 grams/ litre, of approved b wherever required, to achieve even sh	orand an	d manufa	icture, inc	-		
		quantity as per item no 15					530.89	

		Total					530.89	m²	
		say	530.89	m²	@ Rs.	107.95	/1m ²		57311.00
18	10.3	Providing and fixing in position collap braced with flat iron diagonals 20x5m 40mm dia steel pulleys, complete with applying a priming coat of approved ste	m size, v bolts, ni	with top a uts, locking	nd bottor	n rail of T	-iron 40x40x6r	nm, with	
		For Entrance	1	1.50		2.40	3.60		
		Total					3.60	m²	
		Say		3.60	m²	@ Rs.	7830.84	/m²	28191.00
19	LS	Unforeseen Items for Foundations and steel works							15789.00
		Grand Total		•	•				2130000.00
		(Rupees Twen	ity One l	Lakhs Thir	ty Thousa	nd Only)			

CONSTRUCTION OF 5 MLD SEWAGE TREATMENT PLANT AT ELAMKULAM, KOCHI									
		F	OUNDA	TIONS					
ltem no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount
		GENERAT	FOR FOU	NDATION					
		Earth work in excavation by mechanic	al means	s (Hydraulio	c excavato	r) / manua	al means in fo	undation	
1	2.8.1	trenches or drains (not exceeding 1.5	m in wic	Ith or 10 so	qm on plar	n) includin	g dressing of s	sides and	
T	2.0.1	ramming of bottoms, lift up to 1.5 m, i	including	getting ou	t the exca	vated soil	and disposal c	of surplus	
		excavated soil as directed, within a lead	d of 50 m	n. All kind o	f soils.				
			1	6.20	4.20	0.20	5.21		
		Total					5.21	m³	
		Say		5.21	m ³	@ Rs.	243.08	/m³	1266.00
		Providing and laying in position cemei	nt concre	ete of spec	ified grade	e excludin	g the cost of o	centering	
2	4.1.8	and shuttering - All work up to plinth le	evel : 1:4	:8 (1 Ceme	nt : 4 coar	se sand(zc	one-III) : 8 grad	led stone	
		aggregate 40 mm nominal size).							
			1	6.20	4.20	0.20	5.21		
		Total					5.21	m³	
		Say		5.21	m ³	@ Rs.	6541.68	/m³	34069.00
		Providing and laying in position ready	mixed			for reinfo	prced cement	concrete	
		work, using cement content as per ap	proved	design mix,	, manufact	tured in fu	Illy automatic	batching	
		plant and transported to site of work i	n transit	mixer for a	all leads, h	aving cont	tinuous agitate	ed mixer,	
		manufactured as per mix design of sp	ecified g	grade for re	einforced (cement co	oncrete work,	including	
		pumping of R.M.C. from transit mixer	to site o	of laying , ,	excluding	the cost o	of centering, s	huttering	
3	5.37.1	finishing and reinforcement, including	cost of	admixture	s in recom	nmended	proportions as	s per IS :	
		9103 to accelerate/ retard setting of a		•				0	
		durability as per direction of the Engin							
		item is @ 330 kg/cum. Excess/less cem	ent usec	l as per des	ign mix is	payable/ r	ecoverable se	parately).	
		All works upto plinth level							

		Foundation Raft	1	6.00	4.00	0.40	9.60		
		Total					9.60		
		Say		9.60	m³	@ Rs.	9807.23	/m³	94149.00
4	5.22.6	Steel reinforcement for R.C.C. work in binding all complete up to&above plint	•	•	0. 0.	0.		ition and	
		quantity as per item no 3		9.60	120	kg/m³	1152.00		
		Total					1152.00		
		say		1152.00	kg	@ Rs.	82.68	/Kg	95249.00
5	5.9.1	Centering and shuttering including stru	utting, pr	opping etc.	and remo	val of forn	n for :mass con	ncrete.	
		Raft Slab	1	20.00		0.4	8.00		
		Total					8.00	m²	
		Say			m²	@ Rs.	283.32		2267.00
6	13.52.2			oats) at al	l location:	s prepare	l ed and applied	d as per	
6	13.52.2	Say Finishing with Epoxy paint (two or manufacturer's specifications includi		oats) at al	l location: iming coa	s prepare	l ed and applied	d as per ace, etc.	
6	13.52.2	Say Finishing with Epoxy paint (two or manufacturer's specifications includi complete. On concrete work	ng appr	oats) at al opriate pri	l location: iming coa	s prepare t, prepar	I ed and applied ation of surfa	d as per ace, etc.	
6	13.52.2	Say Finishing with Epoxy paint (two or manufacturer's specifications includi complete. On concrete work Outside Wall Around	ng appr	oats) at al opriate pri 20.00	l location: iming coa	s prepare t, prepar 0.4	ed and applied ation of surfa 8.00 8.00	d as per ace, etc.	
6	13.52.2	SayFinishing with Epoxy paint (two or manufacturer's specifications includi complete. On concrete workOutside Wall AroundTotalsay	ng appr	oats) at al opriate pri 20.00 m²	l location: iming coa	s prepare t, prepar	ed and applied ation of surfa 8.00 8.00	d as per ace, etc.	
6	2.8.1	Say Finishing with Epoxy paint (two or manufacturer's specifications includi complete. On concrete work Outside Wall Around Total say FILTER Earth work in excavation by mechanic trenches or drains (not exceeding 1.5 ramming of bottoms, lift up to 1.5 m,	ng appr 1 8.0 R FOUND cal mean: m in wic including	oats) at al opriate pri 20.00 m ² ATION s (Hydraulio ith or 10 so s getting ou	I location: iming coa @ Rs. c excavato qm on plar t the exca	s prepare t, prepar 0.4 181.87 r) / manu n) includir	ed and applied ation of surfa 8.00 8.00 /1m ² al means in fo ng dressing of s	d as per ace, etc.	
		Say Finishing with Epoxy paint (two or manufacturer's specifications includi complete. On concrete work Outside Wall Around Total say FILTER Earth work in excavation by mechanic trenches or drains (not exceeding 1.5	ng appr 1 8.0 R FOUND cal mean: m in wic including	20.00 m ² ATION s (Hydraulic th or 10 sc g getting ou n. All kind o	I location iming coa @ Rs. @ Rs. c excavato qm on plan t the exca f soils.	s prepare t, prepar 0.4 181.87 r) / manu n) includir vated soil	ed and applied ation of surfa 8.00 8.00 /1m ² al means in fo og dressing of s and disposal c	d as per ace, etc.	
		Say Finishing with Epoxy paint (two or manufacturer's specifications includi complete. On concrete work Outside Wall Around Total say FILTER Earth work in excavation by mechanic trenches or drains (not exceeding 1.5 ramming of bottoms, lift up to 1.5 m,	ng appr 1 8.0 R FOUND cal mean: m in wic including d of 50 m	oats) at al opriate pri 20.00 m ² ATION s (Hydraulio ith or 10 so s getting ou	I location iming coa @ Rs. @ Rs. c excavato qm on plan t the exca f soils.	s prepare t, prepar 0.4 181.87 r) / manu n) includir vated soil	ed and applied ation of surfa 8.00 8.00 /1m ² al means in fo ng dressing of s	d as per ace, etc.	

8	4.1.8	Providing and laying in position co and shuttering - All work up to plin aggregate 40 mm nominal size).		-					
			1	15.20	10.70	0.10	16.26		
		Total					16.26	m³	
		Say		16.26	m³	@ Rs.	6541.68	/m³	106394.00
9	5.37.1	Providing and laying in position r work, using cement content as per plant and transported to site of w manufactured as per mix design pumping of R.M.C. from transit m finishing and reinforcement, inclu 9103 to accelerate/ retard setting	er approved over the second of the specified generation of the specified generation of the second of	design mix, mixer for a grade for re of laying , , admixtures , improve v	manufact all leads, h inforced o excluding in recom vorkability	tured in fu aving con cement co the cost o nmended y without	ally automatic tinuous agitate oncrete work, of centering, si proportions as impairing stre	batching ed mixer, including huttering s per IS : ngth and	
		durability as per direction of the item is @ 330 kg/cum. Excess/less All works upto plinth level	-						
		item is @ 330 kg/cum. Excess/less	-			payable/ r		parately).	
		item is @ 330 kg/cum. Excess/less All works upto plinth level	s cement used	as per desi	gn mix is	payable/ r	ecoverable sep	oarately).	
		item is @ 330 kg/cum. Excess/less All works upto plinth level Foundation Raft	s cement used	as per desi	gn mix is 10.50	payable/ r	ecoverable sep	oarately).	1158479.00
10	5.22.6	item is @ 330 kg/cum. Excess/less All works upto plinth level Foundation Raft Total	1 ork including s	15.00 15.00 118.13 traightenin	gn mix is 10.50 m³ g, cutting,	0.75 @ Rs. bending,	ecoverable sep <u>118.13</u> <u>118.13</u> <u>9807.23</u> placing in pos	oarately). /m³	1158479.00
10	5.22.6	item is @ 330 kg/cum. Excess/less All works upto plinth level Foundation Raft Total Say Steel reinforcement for R.C.C. wo	1 ork including s	15.00 15.00 118.13 traightenin	gn mix is 10.50 m³ g, cutting,	0.75 @ Rs. bending, Treated b	ecoverable sep <u>118.13</u> <u>118.13</u> <u>9807.23</u> placing in pos	barately). /m³ ition and	1158479.00
10	5.22.6	item is @ 330 kg/cum. Excess/less All works upto plinth level Foundation Raft Total Say Steel reinforcement for R.C.C. wo binding all complete up to&above	1 ork including s	13 per desi 15.00 118.13 traightenin hermo-Me	gn mix is 10.50 m³ g, cutting, chanically	0.75 @ Rs. bending, Treated b	ecoverable sep <u>118.13</u> <u>118.13</u> 9807.23 placing in pos pars.	barately). /m³ ition and	1158479.00
10	5.22.6	item is @ 330 kg/cum. Excess/less All works upto plinth level Foundation Raft Total Say Steel reinforcement for R.C.C. wo binding all complete up to&above quantity as per item no 3	1 ork including s	13 per desi 15.00 118.13 traightenin hermo-Me	gn mix is 10.50 m ³ g, cutting, chanically 120	0.75 @ Rs. bending, Treated b	ecoverable sep 118.13 118.13 9807.23 placing in pos pars. 14175.00	barately). /m ³ ition and	1158479.00
10	5.22.6	item is @ 330 kg/cum. Excess/less All works upto plinth level Foundation Raft Total Say Steel reinforcement for R.C.C. wo binding all complete up to&above quantity as per item no 3 Total	s cement used	15.00 118.13 traightening Thermo-Me 118.13 14175.00	gn mix is 10.50 m ³ g, cutting, chanically 120 kg	0.75 @ Rs. bending, Treated b kg/m ³ @ Rs.	ecoverable sep 118.13 118.13 9807.23 placing in pos pars. 14175.00 14175.00 82.68	/m ³ ition and	1158479.00

		Total					38.25	m²	
		Say		38.25	m²	@ Rs.	283.32	/m²	10837.00
12	13.52.2	Finishing with Epoxy paint (two or manufacturer's specifications includin complete. On concrete work		-				•	
		Outside Wall Around	1	51.00		0.75	38.25		
		Total					38.25		
		say	38.3	m²	@ Rs.	181.87	/1m ²		6957.00
13	LS	Unforeseen Items							220.00
		Grand Total							2713000.00
		(Rupees Twent	y Seven	Lakhs Thirt	een Thous	and Only			

		CONSTRUCTION OF 5 MLD SEWAG	GE TREAT	IMENT PL	ANT AT EL	AMKULAN	И, КОСНІ					
			PUMP H	OUSE								
ltem no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount			
		Earth work in excavation by mechanica	al means	s (Hydrauli	c excavato	or) / manu	ual means in fo	undation				
	2.2.4	trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and										
1	2.8.1	ramming of bottoms, lift up to 1.5 m, i	ncluding	getting o	ut the exca	vated soil	l and disposal o	of surplus				
		excavated soil as directed, within a lea	d of 50 n	n. All kind	of soils.							
			4	3.20	0.60	0.60	4.61					
		Total					4.61	m³				
		Say		4.61	m³	@ Rs.	243.08	/m³	1120.00			
2	7.1.1	concrete 1:6:12 (1 cement : 6 coarse plinth level with : a) .Cement mortar 1		-		-	mm nominal s	ize) upto				
		Foundation	4	3.20	0.60	0.60	4.61					
		Basement	4	3.20	0.40	0.45	2.30					
		Total					6.91	m ³				
		say		6.91	m³	@ Rs.	5793.31	/1m³	40043.00			
		Reinforced cement concrete work in be	eams, su	spended f	loors, roof	s having s	lope up to 15°	landings,				
		balconies, shelves, chajjas, lintels, ban	ids, plain	window	sills, stairc	ases and	spiral stair cas	es above				
3	5.3		th level up to floor five level, excluding the cost of centering, shuttering, finishing and nforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm									
		Roof Slab	1	3.70	3.70	0.15	2.05					
		Total					2.05	m ³				
		say		2.05	m³	@ Rs.	10796.48	/1m³	22171.00			

		Laterate masonry with neatly dresse	ed laterate	stone of s	size 40X20	X15cm or	nearest size ir	n cement	
4	Obs	mortar 1:6 for superstructuree abov	e plinth lev	el up to fl	oor two le	vel includ	ing all cost of n	naterials,	
		labour charges etc							
		Wall	4	3.20	0.20	2.40	6.14		
		Total					6.14		
		Deduction - Door	1	1.00	0.20	2.40	0.48		
		Total Less Deduction					5.66		
		say		5.66	m³	@ Rs.	7056.15	/m³	39966.00
5	5.22.6	Steel reinforcement for R.C.C. work binding all complete up to&above pl	-	-				ition and	
		quantity as per item no 3		2.05	120	kg/m³	246.42		
		Total					246.42		
		say		246.42	kg	@ Rs.	82.68	/Kg	20374.00
6	5.9.3	Centering and shuttering including st	trutting, pr	opping et	c. and rem	oval of for	m for :slab		
		Roof Slab	1	3.00	3.00		9.00		
		Slab Edge	1	14.20		0.3	4.26		
		Total					13.26	m²	
		Say		13.26	m²	@ Rs.	616.90	/m	8180.00
7	2.25	Filling available excavated earth (ex layers not exceeding 20cm in depth lead up to 50 m and lift up to 1.5 m.	•			-			
		Inside	1	3.00	3.00	0.45	4.05		
		Total					4.05		
		say		4.05	m³	@ Rs.	183.71	/m³	744.00
8	13.1.1	12 mm cement plaster of mix : 1:4 (1	cement: 4	fine sand)				
		Building Outside	1	13.60		2.40	32.64		
		Building Inside	1	12.00		2.40	28.80		

		Total					61.44		
		Deduction - Door	1	1.00		2.40	2.40		
		Total Less Deduction					59.04		
		Say		59.04	m²	@ Rs.	252.65	/m²	14916.00
9	13.17	6 mm cement plaster 1:3 (1 cement: thick coat of Lime wash on top of walls		•		•		nent and	
		Roof Ceiling	1	3.00	3.00		9.00		
		Slab Edge	1	14.20		0.3	4.26		
		Total					13.26	m²	
		Say		13.26	m²	@ Rs.	281.72		3736.00
10	11.41.2	manufacturer) with water absorption make in all colours and shades, laid o including grouting the joints with whi 600x600 mm	n 20mm	thick cem	nent morta	ar 1:4 (1 c	ement : 4 coa	rse sand)	
		Inside	1	3.00	3.00		9.00		
		Total					9.00	m²	
		Say		9.00	m²	@ Rs.	1635.22	/m²	14717.00
11	13.43.1	Applying one coat of water thinnable surface : water thinnable cement prim		primer of	approved	brand an	d manufacture	e on wall	
		Building Outside	1	13.60		2.40	32.64		
		Building Inside	1	12.00		2.40	28.80		
		Roof Ceiling	1	3.00	3.00		9.00		
		Slab Edge	1	14.20		0.3	4.26		
		Total					74.70		
		Deduction - Door	1	1.00		2.40	2.40		
		Total Less Deduction					72.30		
		say	72.30	m²	@ Rs.	53.98	/1m ²		3903.00

		Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less									
12	13.82.2	than 50 grams/ litre, of approved b		-	-	-	•				
		wherever required, to achieve even sh				0 1					
		Quantity as per item no 10					72.30				
		Total					72.30	m²			
		say	72.30	m²	@ Rs.	107.95	/1m ²		7805.00		
		providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and									
13	10.2	praced with flat iron diagonals 20x5mm size, with top and bottom rail of T-iron 40x40x6mm, with									
15	10.3	40mm dia steel pulleys, complete with	bolts, n	uts, lockin	g arranger	nent, stop	pers, handles,	including			
		applying a priming coat of approved st	eel prim	er.							
		For Entrance	1	1.00		2.40	2.40				
		Total					2.40	m²			
		Say		2.40	m²	@ Rs.	7830.84	/m²	18794.00		
14	LS	Unforeseen Items							531.00		
		Grand Total									
		Total 4Nos of Pumphouse									
		Grand Total							788000.00		
		(Rupees Seve	n Lakhs	Eighty Eig	ht Thousa	nd Only)					

		CONSTRUCTION OF 5 MLD SEW/	AGE TREA	TMENT PLA	NT AT ELAN	MKULAM, K	ЮСНІ	
		INTERNAL ROADS, W	ALKWAY	S & STORM	WATER DR	AINS		
ltem no	Item Code	Description	No	L	В	Н	Quantity Unit	Amount
		INT	FERNAL RO	DADS & WA	LKWAYS			
		Preparation and consolidation of sub	grade wi	th power r	oad roller	of 8 to 12	2 tonne capacity after	
1	2.8.1	excavating earth to an average of 22.5	cm depth	, dressing to	o camber a	and consoli	dating with road roller	
1	2.0.1	including making good the undulations	etc. and re	e-rolling the	sub grade	and dispos	al of surplus earth with	
		lead upto 50 metres.						
		For 7m Wide Road	1	180.00	7.00		1260.00 m ²	
		For 5m Wide Road	1	80.00	5.00		400.00	
		For 3m Wide Road	1	60.00	3.00		180.00	
		Walkways	1	270.00	1.50		405.00	
		Total					2245.00 m ²	
		Say		2245.00	m²	@ Rs.	131.62 /m²	295483.00
		Filling with Quarry Muck						
2	PWD OBS	Filling up low lying and water logged ar	eas with l	ocal materia	al/ quarry r	nuck, sprea	ading in layers, leveling	
2	51.2.3	the top at site and consolidation by ram	ming, etc	complete fo	r improving	g the CBR va	alue of subgrade	
		For 7m Wide Road	1	180.00	7.00	0.25	315.00 m²	
		For 5m Wide Road	1	80.00	5.00	0.25	100.00	
		For 3m Wide Road	1	60.00	3.00	0.25	45.00	
		Total					460.00 m ²	
		Say		460.00	m²	@ Rs.	1297.63 /m²	596909.00

		Providing and laying factory made cl		-		•					
		roads/parking etc, of required strength,					•	0			
	OBS DATA	mould, laid in required colour & pattern	n over 40r	nm thick co	mpacted be	ed of sand,	and 75mm t	hick 6mm			
3	BASED ON	brocken stones compacting and prope	er embedo	ding/laying	of inter loo	king paver	blocks into	the sand			
	16.91	bedding layer through vibratory compace	ding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting								
		of paver blocks as per required size an	d pattern	, finishing a	nd sweepin	g extra sar	nd. complete	all as per			
		direction of Engineer-in-Charge.									
		For 7m Wide Road	1	180.00	7.00		1260.00	m²			
		For 5m Wide Road	1	80.00	5.00		400.00				
		For 3m Wide Road	1	60.00	3.00		180.00				
		Total					1840.00	m²			
		Say		1840.00	m²	@ Rs.	1192.16	/m²	2193574.00		
4	16.91.2	sand, compacting and proper embeddir through vibratory compaction by using blocks as per required size and pattern, Engineer-in-Charge. 80 mm thick C.C. pa	g plate vik finishing a	orator, filling and sweepin	g the joints g extra san	s with sand d. complete	l and cutting e all as per di	of paver rection of			
		Walkways	1	270.00	1.50		405.00				
		Total					405.00	m²			
		Say		405.00	m²	@ Rs.	933.38	/m²	378018.00		
5	16.63	Providing, laying and making kerb char cement: 3 coarse sand:6 graded stone a 40 mm nominal size, well rammed and o smooth etc.complete and as per direction	iggregate consolidat	20 mm nom ed and grou	inal size) o ted with fin	ver 75mm l	bed of dry bri	ick ballast			
		Kerb Stone	1	260.00	0.30		78.00				
		Total					78.00	m²			

		say		78.00 n	n²	@ Rs.	558.10	/m²	43532.00			
6	16.69	Providing and laying at or near ground position to the required line, level and c including making joints with or without than 5mm), including making drainage Engineer-in-charge (length of finished stone shall be approved by Engineer-in-	urvature, grooves († e opening kerb edgi	jointed with c hickness of jc wherever re	cement mo pints excep equired co	ortar 1:3 (1 ot at sharp omplete et	cement: 3 co curve shall nc cc. as per di	arsesand) ot to more rection of				
		Kerb Stone	1	260.00	0.20	0.30	15.60					
		Total					15.60	m²				
		say		15.60 n	n²	@ Rs.	7322.48	/m²	114231.00			
7	16.59.1	Manufacturing, supplying and fixing ret face to be fully covered with high inter conforming to type - IV of ASTM-D 4956 subject matter, message (bilingual), syn an adhesive backing which shall be activ D-4956-01 and fixing the same with su frame of M.S. angle iron of size 25x25x2 2 Nos. M.S. angles of size 35x35x5 mm welded with base plate of size 100x100 angles flats, providing & fixing M.S. me more coats of synthetic enamel paint of diametre with support length of 3750 m	ensity end 5-01 in blu nbols and rated by a itable size 3 mm alor to a verti 0x5 mm a ssage pla f required	capsulated type and silver v borders etc. pplying heat a ed aluminium ng with theft r cal post made at the bottom te of required	be heat a white or of as per IRC and pressu alloy rive resistant n e up to M n end and I size, stee	ctivated re ther colour ; 67:2001, re conform ets @ 20 c neasures, n S. Tee sect including el work to b	tro reflective combination pasted onsul ning to class -2 m c/c to bac nounted and tion ISMT 50x making holes be painted wi ign boards o	e sheeting including bstrate by 2 of ASTM- k support fixed with (50x6 mm a in pipes, ith two or f 900 mm				
		For Internal Roads & Walkways	5									
		Total			-		5.00		34960.00			
		say	/ 5.00 Nos @ Rs. 6991.90 /Nos									

8	16.59.2	Manufacturing, supplying and fixing ret face to be fully covered with high inte conforming to type - IV of ASTM-D 4956 subject matter, message (bilingual), syn an adhesive backing which shall be activ D-4956-01 and fixing the same with su frame of M.S. angle iron of size 25x25x3 2 Nos. M.S. angles of size 35x35x5 mm welded with base plate of size 100x10 angles flats, providing & fixing M.S. me	ensity enc 5-01 in blu nbols and vated by ap itable size 3 mm alor to a vertio 0x5 mm a	apsulated t e and silver borders etc oplying heat ed aluminiu og with thef cal post ma ot the botto	ype heat a white or o as per IRC and pressu m alloy rive t resistant n de up to M m end and	ctivated ref ther colour ; 67:2001, ire conform ets @ 20 ci neasures, m .S. Tee sect including r	tro reflective combination pasted onsul ing to class -2 m c/c to bac nounted and ion ISMT 50 making holes	e sheeting including bstrate by 2 of ASTM k support fixed with (50x6 mm 5 in pipes,	
		more coats of synthetic enamel paint o triangular shape having each side of 90 For Internal Roads & Walkways	•		-		5.00		
		Total					5.00		
		say		5.00	Nos	@ Rs.	5060.37	/Nos	25302.00
			STORM	WATER DR	AIN				
9	2.8.1	Earth work in excavation by mechanic trenches or drains (not exceeding 1.5 ramming of bottoms, lift up to 1.5 m, excavated soil as directed, within a lead	m in wid including	th or 10 so getting ou	am on plan t the excav) including	dressing of	sides and	
		SWD along Roads	1	320.00	0.70	0.60	134.40		
		SWD Along Walkways	1	270.00	0.50	0.40	54.00		
		Total					188.40	m³	
		Say		188.40	m ³	@ Rs.	243.08	/m³	45796.00

10	5.37.1	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately). All works upto plinth level										
		SWD along Roads										
		Base Slab	1	320.00	0.70	0.10	22.40					
		Side Wall	2	320.00			32.00					
		SWD Along Walkways										
		Base Slab	1	270.00	0.50	0.10	13.50					
		Side Wall	2	270.00	0.10	0.30	16.20					
		Total					84.10					
		Say		84.10	m³	@ Rs.	9807.23	/m³	824788.00			
11	5.22.6	Steel reinforcement for R.C.C. work in binding all complete up to plinth level. T	-		-		lacing in pos	sition and				
		quantity as per item no 10		84.10	80	kg/m³	6728					
		Total					6728.00	Kg				
		say		6728.00	kg	@ Rs.	82.68	/Kg	556280.00			
12	4.12	Extra for providing and mixing water p cement as per manufacturer's specificat	nixing water proofing material in cement concrete work in doses by weight of rer's specification.									
		quantity as per item no 1		84.10	340	kg/m³	28594.00	Kg				
		Total					28594.00	Kg				
						50kg/bag		-				
		say		571.88	Bags	@ Rs.	70.05	/bag	40058.00			

13	5.9.2	Centering and shuttering includi	ng strutting, prop	ping etc. and	l removal of	form for :f	for wall		
		SWD along Roads							
		Wall Outside	2	320.00		0.60	384.00		
		Wall Inside	2	320.00		0.50	320.00		
		SWD Along Walkways							
		Wall Outside	2	270.00		0.40	216.00		
		Wall Inside	2	270.00		0.30	162.00		
		Total					1082.00	m²	
		Say		1082.00	m²	@ Rs.	553.06	/m²	598410.00
14	LS	Unforeseen Items							659.00
		Grand Total		<u> </u>					5748000.00
		(Rupe	es Fifty Seven La	khs Forty Eigl	ht Thousand	l Only)			

		CONSTRUCTION OF 5 MLD SEV	VAGE T	REATMEN	T PLANT A	T ELAMKU	LAM, KOCHI		
		LANDSCAPING & COMPENS	SATORY	AFFORES	TATION (D	SR for Hort	ticulture)		
Item no	Item Code	Description	No	L	В	Н	Quantity	Unit	Amount
1	2.1	Trenching in ordinary soil up to a materials and then disposing of su and making up the trenched area or / and manure before and after sludge or manure).	rplus so to prop	oil, by spre oer levels b	ading and by filling w	neatly leve ith earth oi	ling within a le	ead of 50 m with sludge	
		Lawn Area (800sqm Area)	1	750.00		0.60	450.00		
		Total					450.00	m ³	
		Say		450.00	m³	@ Rs.	66.98	/m³	30140.00
2	2.2	Supplying and stacking of good ea (earth measured in stacks will be re					age upto 5 kr	n complete	
		50% of Excavated earth	1	0.50		450.00	225.00		
		Total					225.00	m ³	
		say		225.00	m³	@ Rs.	485.79	/1m³	109303.00
3	2.4.3	Supplying and stacking at site dun complete (manure measured in sta	•		••	-	• •	e upto 5 km	
		50% of Excavated earth	1	0.50		450.00	225.00		
		Total					225.00	m ³	
		say		225.00	m³	@ Rs.	305.53	/1m³	68743.00
4	2.9	Mixing earth and sludge or manure in-charge	e in the	required [proportion	specified o	or directed by	the Officer-	
		Lawn Area	1	750.00		0.60	450.00		
		Total					450.00	m³	
		Say		450.00	m³	@ Rs.	31.19	/m³	14035.00
5	2.8	Spreading of sludge, dump manus officer-in-charge (cost of sludge, du		-		-	-		

		Lawn Area	1	750.00		0.60	450.00		
		Total					450.00	m³	
		Say		450.00	m³	@ Rs.	45.21	/m³	20345.00
6	2.33	Providing and laying Neelgiri/Mex ground prepared with proper leve the surface with light roller make maintenance for 30 days or more charge.	el and e the s	ramming w urface smc	vith tools v oothen and	wooden (D d light wat	hurmos) and t erning with sp	than rolling prinkler and	
		Lawn Area	1	750.00			750.00		
		Total					750.00	m²	
		Say		750.00	m²	@ Rs.	297.86	/m²	223393.00
7	2.14.4	Digging holes in ordinary soil and or sludge in the ratio of 2:1 by volu 1 part of stacked volume of manua removal of rubbish and surplus ear good earth if needed to be paid for	ume (2 re aftei rth, if a	parts of star reduction ny, with all	acked volu by 8%) flo leads and	me of eart ooding with lifts (cost o	h after reduction water, dressir of manure, sluc	on by 20% : ng including	
		LS	600				600	Nos	
		Total					600.00	Nos	
		Say		600.00	Nos	@ Rs.	19.57	/Each	11745.00

8	2.16	nos 25 x 6 mm, 2.25 m long a 6 mm M.S. flat iron rings in t dia and 30 mm long bolts, in brand and manufacture over 250x100 mm shall be welded any other approved name. Th legs of tree guard in pits of	roviding and fixing M.S. flat iron tree guard 60 cm dia and 2 m high, above ground consisting 4 os 25 x 6 mm, 2.25 m long and 8 nos 25 x 3 mm 2 m long verticals M.S. flats, riveted to 3 nos 25 x mm M.S. flat iron rings in two halves, fixing together at site with required six numbers of 8 mm ia and 30 mm long bolts, including painting two coats with synthetic enamel paint of approved rand and manufacture over a coat of primer. One name plate of 1 mm thick M.S. sheet of size 50x100 mm shall be welded to the tree guard near the middle height and lettered CPWD / PWD/ ny other approved name. The tree guard shall be suitably fixed to the ground by embedding four egs of tree guard in pits of suitable dia and to a depth of 25 cm, refilling the pits with soil and amming, complete in all respect as per satisfaction and direction of Officer-in-charge.											
		LS	50				50	Nos						
		Total					50.00	Nos						
		say		50.00	Nos	@ Rs.	4435.21	/Each	221760.00					
8	7.5	Supply and stacking of Azadir 25 cm as per direction of the			blant of he	eight 12013	0cm in big pol	ybag of size						
		LS	50				50	Nos						
		Total					50.00	Nos						
		Say		50.00	Nos	@ Rs.	87.65	/Each	4382.00					
9	7.24	Supply and stacking of Delon size 25 cm as per direction of			ant of he	ight 150-16	5 cm. in big p	ooly bags of						
		LS	50				50	Nos						
		Total					50.00	Nos						
		Say		50.00	Nos	@ Rs.	87.65	/Each	4382.00					
10	7.26	Supply and stacking of Ficus k lush green foliage in g. bags o						anches and						
		LS	50				50	Nos						
		Total	tal 50.00 Nos											

		Say		50.00	Nos	@ Rs.	146.08	/Each	7304.00
11	7.26	Supply and stacking of Plumeria HDPE bag as per direction of the		•	eight 150-	165 cm. wit	h 3-4 branche	es in big size	
		LS	100				100	Nos	
		Total					100.00	Nos	
		Say		100.00	Nos	@ Rs.	292.16	/Each	29216.00
12	7.50	Supply and stacking of Lagerstro 25 cm as per direction of the of			ant of heig	ght 150-165	cm.in big pol ^ı	y bag of size	
		LS	100				100	Nos	
		Total					100.00	Nos	
		Say		100.00	Nos	@ Rs.	175.30	/Each	17530.00
13	2.57	Plantation of Trees, Shrubs, a material's as per direction of of	-			-		serveiceable	
		LS	600				600	Nos	
		Total					600.00	Nos	
		Say		600.00	Nos	@ Rs.	6.21	/Each	3725.00
14	LS	Unforeseen Items							997.00
		Grand Total	•	•		<u> </u>			767000
		(Rupee	es Seven La	akhs Sixty S	Seven Tho	ousand Only			

	CONSTRUCTION OF 5 MLD SEWAGE TREATMENT PLANT AT ELAMKULAM, KOCHI												
	MECHANICAL ITEMS												
ltem no	ltem Code	Description	No	L	В	н	Quantity	Unit	Amount				
1	MR	Sewage Transfer Pump Supply at site,erection, testing and sewage transfer pump for rated cont to IS 1520 and conforming to other re phase motor, SS shaft, with automati bolts etc including Double Flange DI, PN 1 rating NRVs with DI/I/Pipes conr 50 HZ, AC power supply etc. complete automatic switch on & switch off as re as per technical specification or as dir high/ low level alarm. Electrical Cont in the Electrical BOQ Capacity: 312.5 m ³ /hr. (Average flow Head: 10 m. Three phase Motor with	inuous du levant sta c pedesta /CI PN 1 r necting con e in all res equired by rected by I crol panel	ty and effic ndards), Cl l coupling, ating sluice mmon deliv pects with the stand Engineer In shall be su	ciency (fro construct delivery be valves, P very suitat detachat ard specifi Charge.Pu pplied wit	m reputed ion, bronze end, requir ressure ga ole for oper ole arrange cations cor umps shall h the pum	manufacturers e impeller,compl ed wire chain, w uges, Double Fla ration on 415+/- ments, level ind mplete with all a have dry run pro p as per the spe	complying ete with 3 vashers, SS ange DI/CI 10% volts, icators for ccessories otection &					
		From Equalization Tank to MBBR Tank	2				2.00	Nos					
		Total					2.00	Nos					
		Say		2	Nos	@ Rs.	575000.00	/Nos	1150000.00				

2	MR	Mixing Equipment Supply, erection, testing and comment required with the rotating arm f phase motor, including rotary pa electro mechancial equipments of Electrical Control panel shall be su as directed by the Engineer in Cha Capacity: 400 m ³ /hr. (120LPS) Motor : 4HP, three phase (1W+1S)	or rated contin addles, gear box etc complete fo upplied with the rge	uous duty mixing , cables, wall m or the equalizati	g and efficien ooring and ar ion tank of th	icy, complete s nchoring system ne proposed 5	set with 3 m with all MLD STP.	
		Into the Equalisation Tank	2			2.00	Nos	
		Total					Nos	
		Say		2 Nos	@ Rs.	120000.00	/Nos	240000.00
3	MR	Sludge Thickener Feed Pump Supply at site, erection, testing a sewage transfer pump for rated c to IS 1520 and conforming to othe phase motor, SS shaft, with auton bolts etc including Double Flange PN 1 rating NRVs with DI/I/Pipes c 50 HZ, AC power supply etc. comp automatic switch on & switch off a as per technical specification or as high/ low level alarm. Electrical C in the Electrical BOQ Capacity: 10.5 m³/hr. (3LPS) Head: 150 m. Motor : three phase motor with I	ontinuous duty er relevant stand natic pedestal co e DI/CI PN 1 rati connecting comr plete in all respe as required by th s directed by En Control panel sh	and efficiency (fr ards), CI construc- pupling, delivery ng sluice valves, non delivery suita ects with detacha ne standard speci gineer In Charge.	rom reputed n ction, bronze i bend, required Pressure gaus able for opera able arrangem ifications com Pumps shall h	nanufacturers mpeller,compl d wire chain, w ges, Double Fla tion on 415+/- nents, level ind plete with all a ave dry run pro	complying ete with 3 ashers, SS ange DI/CI 10% volts, icators for ccessories otection &	

		From Sludge Sump to Sludge Thickener Sump	2				2.00	Nos	
		Total					2.00	Nos	
		Say		2	Nos	@ Rs.	37500.00	/Nos	75000.00
4	MR	Filter Press Feed Pump Supply at site,erection, testing and sewage transfer pump for rated conti to IS 1520 and conforming to other re phase motor, SS shaft, with automati bolts etc including Double Flange DI, PN 1 rating NRVs with DI/I/Pipes conn 50 HZ, AC power supply etc. complete automatic switch on & switch off as re as per technical specification or as dir high/ low level alarm. Electrical Cont in the Electrical BOQ Capacity: 4 m ³ /hr. (1.5LPS) Head: 15 m. Motor : three phase motor with IP 68	inuous du levant sta c pedesta /CI PN 1 r necting con e in all res equired by rected by l rected by l	ty and effic indards), Cl I coupling, rating sluice mmon deli- spects with y the stand Engineer In shall be su	ciency (fr construc delivery l e valves, very suita n detacha ard speci Charge.	rom reputed ction, bronze bend, require Pressure gau able for opera able arrangen fications com Pumps shall h	manufacturers of impeller,completed wire chain, w uges, Double Fla ation on 415+/-: nents, level indi aplete with all a nave dry run pro	complying ete with 3 ashers, SS ange DI/CI 10% volts, cators for ccessories otection &	
		From Sludge Thickener to Centrifuge	2						
		Total							
		say		2	Nos	@ Rs.	38500.00	/Nos	77000.00

5	MR	Centrate Pump Supply at site,erection, testing and sewage transfer pump for rated conti to IS 1520 and conforming to other re phase motor, SS shaft, with automati bolts etc including Double Flange DI/ PN 1 rating NRVs with DI/I/Pipes conn 50 HZ, AC power supply etc. complete automatic switch on & switch off as re as per technical specification or as dir high/ low level alarm. Electrical Cont in the Electrical BOQ Capacity: 10 m ³ /hr. (1.5LPS) Head: 15 m. Motor : three phase motor with IP 68	inuous du levant sta c pedesta /CI PN 1 r lecting con e in all res equired by rected by I rol panel	ty and effic ndards), Cl l coupling, ating sluice mmon delin pects with the stand Engineer In shall be su	ciency (fro construct delivery b valves, I very suita detacha ard specif Charge.P	om reputed tion, bronze end, require Pressure gau ble for oper ble arranger ications con Pumps shall	manufacturers of impeller,comple ed wire chain, w uges, Double Fla ration on 415+/-: ments, level indi nplete with all ac have dry run pro	complying ete with 3 ashers, SS ange DI/CI 10% volts, icators for ccessories otection &					
		From Centrate Sump to Equalization Tank											
		Total											
		say		2	Nos	@ Rs.	35000.00	/Nos	70000.00				

6	MR	Treated Water Pump Supplying and fixing of mono block centrifugal pump, for rated continuous duty and best efficiency Cl construction, Cl impeller, complete with 3 phase motor,FRP motor cover, pressure gauge, operation on 415+/-10% volts, 50 HZ, AC power supply etc including sluice valves, Pressure gauges, NRVs with DI/I/Pipes connecting common delivery suitable for complete in all respects as required by the standard specifications and shall suit following capacities complete with all accessories as per technical specification.Pumps shall have dry run protection & high/ low level alarm. Electrical Control panel shall be supplied with the pump as per the specifications in the Electrical BOQ Capacity: 20 m ³ /hr. (1.5LPS) Head: 15 m. Motor : three phase motor with IP 68 Protection									
		From Treated Water Tank to Reuse Application	2								
		Total									
		say		2	Nos	@ Rs.	35000.00	/Nos	70000.00		
7	MR										
		From FFT to Filters	2								

		Total							
		say		2	Nos	@ Rs	. 750000.00	/Nos	150000.00
8	MR	Air Blower Supply, erection, testing and commiss acoustic canopy, air filter, motor of hood, suction silencer with suitable fil tightening arrangement interconnec technical specification or as Directed Capacity: 1800 m ³ /hr. Pressure: 0.6 kg/sqcm Motor : three phase motor with IP 66	1500 rpm langes, cor cting line by Enginee	, pulleys, p nmon mot with flang er in Chargo	oressure ga or and con es includii e	auges, p npresso	base frame with	e, acoustic notor belt	
		Total					3.00	Nos	
		Say		3	Nos	@ Rs	. 495000.00	/Nos	1485000.00
9	MR	Bubble Diffuser for MBBR Tank Supplying at site, erection, testing & and pulley arrangement) for the aer size and length made of EPDM make SS C clamp suitable for 1" O.D, hose, RCC block complete at a minimum ra Engineer in Charge	ation syste with SS te PP Rope,	em of the l ee 1" x 1 ", PP swivel r	VIBBR Tans SS lifting h nut, PP slee	sk (2Nos ook 8 m eve, Silic) with diffusers of m, SS foundation b one Washer, SS ho	sufficient oolt 6 mm, ose clamp,	
		Total					2.00	Nos	
		Say		2	Nos	@ Rs	. 180000.00	/	360000.00

10	MR	Bubble Diffuser for Equalisation Tank Supplying at site, erection, testing & commissioning of Coarse Bubble Diffuser (retrievable type using rope and pulley arrangement) for the aeration system of the Equalization Tank with diffusers of sufficient size and length made of EPDM make with SS tee 1" x 1 ", SS lifting hook 8 mm, SS foundation bolt 6 mm, SS C clamp suitable for 1" O.D, hose, PP Rope, PP swivel nut, PP sleeve, Silicone Washer, SS hose clamp, RCC block complete at a minimum rating of 95m ³ /hr as per technical specification or as directed by the Engineer in Charge								
		Total					2.00	Nos		
		Say		2.00	Nos	@ Rs.	69500.00	/Nos	139000.00	
11	MR	Air Grid Pipe Supply and installation of air pipes blowers to various tanks as a complet		y into valv	ves and o	ther acess	ories as require	d for the		
		Total					1.00	Set		
		Say		1	Set	@ Rs.	150000.00	/Nos	150000.00	
12	MR	MBBR Media Supplying and fixing of non- cloggi Sp.Gravity 0.93 for MBBR reactor wi mm complete as per technical specifi	th surface	area not	ess than 4	450m²/m³,	length 16-20 m			
		Total					270.00	m³		
		Say		270.00	m³	@ Rs.	9000.00	/1m³	2430000.00	
13	MR	Gas Chlorinator system Supply at site, erection, testing and Chlorine) with all wetted parts in PF pumps, valves, suctions and deliver repair kit, FRP motor cover etc.comp chlorine tonners	P construc y lines usi	tion suitab ng heavy o	le for pun duty PVC	nping Chloi tubes, gas	rine gas includin line diffusers, e	g booster mergency h 2nos of	,	
	1	Total								

		Say		2	Nos	@ Rs.	400000.00	/Nos	800000.00
14	MR	Electromagnetic flow meter Supply, installation, testing and comm flow meter with flow recorder, dig transmittal and digital display arrange data logger, to save upto 2000 lineso 10 to 600LPS, One display shall be inst	ital flow i ements and of data etc	ndicator, f d all access . complete	low integrories incluted to fix as p	rator with Iding hous Per the spe	sensors, 7digit	totaliser, s, internal	
		Total					2.00	Nos	
		Say		2	Nos	@ Rs.	75000.00	/Nos	150000.00
		,				U			
15	MR	Lifting Mechanism for Air Grid Supply, installation & commissionir equipments from a height not less that	-	manually o	operating	chain pull	ley mechanism		
15	MR	Lifting Mechanism for Air Grid Supply, installation & commissionir	-	manually o	operating	chain pull	ley mechanism to on etc		
15	MR	Lifting Mechanism for Air Grid Supply, installation & commissionin equipments from a height not less that	-	manually c uding all eq	operating	chain pull	ley mechanism to on etc	to lift the Nos	50000.00
15	MR	Lifting Mechanism for Air Grid Supply, installation & commissionir equipments from a height not less that For Air Grid	ng and c open chan the inleta	manually o uding all eq 5 ommissioni nel sluice g and outlet	operating uipments Nos ing of all gates/shut	chain pull , foundatio @ Rs. material ter of DI een chann	ley mechanism to on etc 5.00 10000.00 s, fabricating, f make with a pea	to lift the Nos /Nos ixing and ak flow of	50000.00
		Lifting Mechanism for Air GridSupply , installation & commissioninequipments from a height not less thatFor Air GridSaySS GatesSupplying at site, installation testiccommissioning of spindle operated of145LPS and velocity less than 1m/s at	ng and c open chan the inleta	manually o uding all eq 5 ommissioni nel sluice g and outlet	operating uipments Nos ing of all gates/shut	chain pull , foundatio @ Rs. material ter of DI een chann	ley mechanism to on etc 5.00 10000.00 s, fabricating, f make with a pea rel to suit the cha	to lift the Nos /Nos ixing and ak flow of	50000.00

17	MR	Mechanical Coarse Screen Supplying all materials, fabricating, fixing and commissioning of mechanical SS Screen Bar of following or nearest suitable size made of flats having 50mm x 10mm and 20mm clear space across the screen chamber channel (fixed type) at 70° inclination including cost of mechanical screen grab bucket and arrangement for automated scrapping clogged materials suitable for operation on 415+/-10% volts, 50 HZ, AC power supply etc. complete in all respects as required by the standard specifications complete with all accessories as per technical specification								
		Total				1.00	Set			
		Say		1 Set	@ Rs.	60000.00	Set	60000.00		
18	MR	Mechanical Fine Screen Supplying all materials, fabricating, finearest suitable size made of flats chamber channel (fixed type) at 70° arrangement for automated scrappin HZ, AC power supply etc. complete with all accessories as per technical s	having 50 inclinations ng clogged in all resp	Omm x 10mm and on including cost of materials suitable f ects as required by	6mm clear f mechanical for operation	space across t l screen grab b n on 415+/-10%	he screen ucket and 6 volts, 50			
		Total				1.00	Set			
		Total Say		1 Set	@ Rs.	1.00 100000.00		100000.00		
19	MR		having 50 inclination	commissioning of N mm x 10mm and 2 including cost of scr	Manual SS So 20mm clear reen grab bu	100000.00 creen Bar of fo space across t cket and arrang	Set Ilowing or he screen ement for	100000.00		
19	MR	Say Manual Coarse Screen Supplying all materials, fabricating, f nearest suitable size made of flats chamber channel (fixed type) at 45° manual scrapping clogged materials a	having 50 inclination	commissioning of N mm x 10mm and 2 including cost of scr	Manual SS So 20mm clear reen grab bu	100000.00 creen Bar of fo space across t cket and arrang	Set Ilowing or he screen ement for ngineer in	100000.00		

20	MR	Griting Mechanism Supplying at site all electro-mechanical equipments, fabricating, fixing and commissioning of the griting mechanism to suit gritting chamber sizes as per drawings, tender specifications or as directed by Engineer in Charge. Total 2.00 Nos								
		Total				2.00	Nos			
		Say		2.00 Nos	@ Rs.	470000.00	Set	940000.00		
21	MR	Clarifier Mechanism Supplying all materials, fabricating, fixing and commissioning of Bridge mounted central driven type clarifier mechanical rake for the half diameter of the Clarifier Tank as per drawings including all feed well, drive and rake mechanism with removable scrappers with sufficient 3phase motor and gears etc complete as per tender specifications and as directed by Engineer in Charge								
		Total				1.00	Nos			
		Say		1.00 Nos	@ Rs.	700000.00	/Nos	700000.00		
22	MR	Sludge Thickener Mechanism Supplying all materials, fabricating, sludge thickening mechanism for the all feed well, drive and rake mecha gears etc complete as per tender spec	full diame nism with	ter of the Sludge Thic removable scrapper	kener tank s with suf	as per drawings ficient 3phase n	including			
		Total				1.00	Nos			
		Say		1.00 Nos	@ Rs.	270000.00	/Nos	270000.00		
23	MR	Say1.00Nos@ Rs.270000.00/NosPoly Electrolyte dosing systemSupplying and fixing of electronic dosing pump with all wetted parts in PP construction suitable for pumping Poly Electrolyte solution including cost of suitable agitators, control gears, valve, suction and delivery lines using heavy duty PVC tubes, HD, FRP motor cover etc. and complete with all accessories to prepare 5% solution of 0.2kg/hr								
		Total				2.00	Nos			
		Say		2.00 Nos	@ Rs.	80000.00	/Nos	160000.00		

24	MR	High Pressure Jet Pump Supply and commissioning of portable high pressure water pumps (along with 500litre water tanks to supply water to the pumps) all mounted on a suitable medium vehicle platform for clearing the wells pumps, and other equipments using high pressure gauges, safety arrangements etc complete as per standards								
		Total				1.00	Nos			
		Say		1 Nos	@ Rs.	30000.00	/Nos	30000.00		
25	25 MR	Portable Hoist - 500kg Supply and commissioning of portable Monkey type Hoist with capacity upto 500kg, with lifting height of 6m, 5HP Motor, 415V 50Hz all mounted on a suitable medium vehicle patform for easy shifting of equipments and materials whenever required with complete set as per standards								
		Total				1.00	Nos			
		Say		1 Nos	@ Rs.	90000.00	/Nos	90000.00		
26	MR	Wheel Barrow Supply of three wheel type wh	eel barrow of capcit	y 200ltrs	· · ·					
		Total				1.00	Nos			
		Say		1 Nos	@ Rs.	25000.00	/Nos	25000.00		
27	MR	Aluminium Ladder Supply, Installation of alumini per the drawings or as directed	•		vated structur	es of required	height as			
		Ladder (4m Height)	4			4.00	Nos			
		Total		<u>.</u>		4.00	/Nos			
		Say		4 Nos	@ Rs.	6000.00	/Nos	24000.00		
	FRP Ladder MR Supply, Installation of FRP ladders with caging on each elevated structures of required height as per the drawings or as directed by the Engineer in Charges									
28	MR		Engineer in Charges							

		Total				6.00	/Nos	
		Say		6 Nos	@ Rs.	30000.00	/Nos	180000.00
29	MR	Monorail Crane Supply, Installation and commissionin capacity of 2tonnes suitable for ope & span upto 20m complete in all re accessories as per technical specifica	eration on 4 espects as r	115+/-10% volts, 50 H	HZ, AC pow	ver supply etc. w	ith 6m lift	
		Monorail Crane	1			1.00	Nos	
		Total				1.00	/Nos	
		Say		1 Nos	@ Rs.	350000.00	/Nos	350000.00
30	MR	Pressure sand filter Supply at site, erection and comm fabricated with MS construction wi coats of paint outside (pain quality 7.0Kg/cm ² with as operating press including graded pebble and sand a gauges, strainers, supporting structu twice the working pressure supporte specification or as directed by Engli fabricated pipes and specials includin Flow rate - 250 m ³ /hr. Diameter - 3.0m. Height - 2.5m	ith epoxy c y as instruc sure of 3.9 and antrac ure, back y ed over pet ineer in Ch	coating inside and an cted by Engineer) wit 5 Kg/cm ² , complete ite , frontal piping, k wash arrangement, e bble/gravel with inspe	nti corrosiv thstand a r with valv butteryfly v etc and all ection man	ve treatment out minimum test pr ves and dual filt valves, internals, other accessori nholes etc comple complete piping	tside, two ressure of ter media , pressure es tested ete as per g with MS	
		Total	<u> </u>	ļ		3.00		
		Say		3 Nos	@ Rs.	450000.00	/Noc	1350000.00

		Activated Carbon filter									
		Supply at site, erection and commi	ssioning o	of Activated Carbon	filter vert	ical type pressu	ure vessel				
		fabricated with MS construction with epoxy coating inside and anti corrosive treatment outside, two									
		coats of paint outside (pain quality	as instruc	ted by Engineer) wi	thstand a r	ninimum test pr	ressure of				
		7.0Kg/cm ² with as operating pressu	re of 3.5 I	<g cm²,="" complete="" th="" wi<=""><th>ith valves a</th><th>and filter media</th><th>including</th><th></th></g>	ith valves a	and filter media	including				
		activated carbon of approved grade	and qual	ity , frontal piping, b	butteryfly v	valves, internals,	pressure				
31	MR	gauges, strainers, supporting structu	ire, back v	wash arrangement, e	etc and all	other accessorie	es tested				
		twice the working pressure supported over pebble/gravel with inspection manholes etc complete as per specification or as directed by Engineer in Charge. The scope shall include complete piping with MS									
		fabricated pipes and specials including	g valves								
		Flow rate - 250 m ³ /hr.									
		Diameter - 3.0m.									
		Height - 2.5m									
		Total				3.00	Nos				
		Say		3 Nos	@ Rs.	475000.00	/Nos	1425000.00			
		Centrifuge System					-				
		Centrifuge System Supply at site, installation and comr	-	of filter press /cent	trifuge syst	em. Filter Pres	s shall be				
		Centrifuge System Supply at site, installation and comr automated, recessed type press with	SS fabrica	of filter press /cent ted structure pipe bu	trifuge syst utton surfa	em. Filter Press ce and SS flat pa	s shall be rallel bar,				
32	MR	Centrifuge System Supply at site, installation and comr automated, recessed type press with with PP cloth. Filter operations to be	SS fabrica mechanic	of filter press /cent ted structure pipe bu al. Outlet cake consi	trifuge syst utton surfa stency show	em. Filter Press ce and SS flat pa uld not be more	s shall be Irallel bar, than 35%				
32	MR	Centrifuge System Supply at site, installation and comr automated, recessed type press with with PP cloth. Filter operations to be moisture. The capacity of the filter p	SS fabrica mechanic ress shall	of filter press /cent ted structure pipe bu al. Outlet cake consi be 1cum/hr . The Filt	trifuge syst utton surfa stency shou ter Press U	em. Filter Press ce and SS flat pa uld not be more nit shall be mou	s shall be rallel bar, than 35% nted on a				
32	MR	Centrifuge System Supply at site, installation and comr automated, recessed type press with with PP cloth. Filter operations to be moisture. The capacity of the filter p platform and all around drain system	SS fabrica mechanic ress shall n to be pr	of filter press /cent ted structure pipe bu al. Outlet cake consi be 1cum/hr . The Filt ovided to prevent th	trifuge syst utton surfa stency shou ter Press Un ne filtrate v	em. Filter Press ce and SS flat pa uld not be more nit shall be mou vater from conta	s shall be rallel bar, than 35% nted on a				
32	MR	Centrifuge System Supply at site, installation and comr automated, recessed type press with with PP cloth. Filter operations to be moisture. The capacity of the filter p	SS fabrica mechanic ress shall n to be pr	of filter press /cent ted structure pipe bu al. Outlet cake consi be 1cum/hr . The Filt ovided to prevent th	trifuge syst utton surfa stency shou ter Press Un ne filtrate v	em. Filter Press ce and SS flat pa uld not be more nit shall be mou vater from conta	s shall be rallel bar, than 35% nted on a				
32	MR	Centrifuge System Supply at site, installation and comr automated, recessed type press with with PP cloth. Filter operations to be moisture. The capacity of the filter p platform and all around drain system	SS fabrica mechanic ress shall n to be pr	of filter press /cent ted structure pipe bu al. Outlet cake consi be 1cum/hr . The Filt ovided to prevent th	trifuge syst utton surfa stency shou ter Press Un ne filtrate v	em. Filter Press ce and SS flat pa uld not be more nit shall be mou vater from conta	s shall be rallel bar, than 35% nted on a aminating				

33	10.25.1	treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete							
		Total				50000.00	kg		
		Say	50000.0	0 Kg	@ Rs.	96.12	/kg	4806032.00	
34	10.26.3	Providing and fixing hand rail of app staircase railing and similar works, inc		-		-		5,	
		Total				15000.00	kg		
		Say	15000.0	0 Kg	@ Rs.	146.45	/kg	2196678.00	
			STP INPLANT P	IPING					
35	18.73	Providing and laying Double Flanged (9 conforming to IS: 8329 :	Screwed/ Welded)	Centrifugall	y (Spun) D	uctile Iron Pipes	of Class I	< .	
	1	100 mm dia Ductile Iron Double Flanged					m		
	_	Say	20.00	m	@ Rs.	2012.18	/m	40244.00	
	2	150 mm dia Ductile Iron Double Flanged				20.00	m		
		Say	20.00	m	@ Rs.	3019.62	/m	60392.00	
	3	200 mm dia Ductile Iron Double Flanged				20.00	m		
		Say	20.00	m	@ Rs.	3806.26	/m	76125.00	
				1		1			
	4	250 mm dia Ductile Iron Double Flanged				0.00	m		

	5	300 mm dia Ductile Iron Double					0.00		
	5	Flanged					0.00	m	
		Say		0.00	m	@ Rs.	6941.79	/m	0.00
	6	350 mm dia Ductile Iron Double							
	0	Flanged						m	
		Say		0.00	m	@ Rs.	8745.52	/m	0.00
	7	400 mm dia Ductile Iron Double							
	'	Flanged						m	
		Say		0.00	m	@ Rs.	11233.48	/m	0.00
	8	450 mm dia Ductile Iron Double					40.00		
	0	Flanged					40.00	m	
		Say		40.00	m	@ Rs.	11824.96	/m	472998.00
	9	500 mm dia Ductile Iron Double							
	9	Flanged						m	
		Say		0.00	m	@ Rs.	16727.77	/m	0.00
	10	550 mm dia Ductile Iron Double							
	10	Flanged						m	
		Say		0.00	m	@ Rs.	22155.08	1.7	0.00
36	18.69.1	Providing and laying D.I. Specials o 600mm dia	f Class K - 1	.2 suitable	for mecha	nical jointir	ng as per IS : 952	23 - Upto	
			0	0.00			0.00	Kg	
			0	0.00			0.00	-	
		Total					0.00	Ŭ	
		say	-	Qn	@ Rs.	23675.84			0.00
		Providing and fixing uPVC pipes inc	ludings joir	ting of pip	es with on	e step uPV	C solvent cemer	t, testing	
37	OBS	of joints complete as per direction				·		, 0	
	1	315mm dia 6Kgf/cm²					0.00	-	
		Say		0.00	m	@ Rs.	4238.03	m /m	0.00
	+	250mm dia 6Kgf/cm ²		0.00				/	0.00
	2						0.00		

	Say	0.00	m	@ Rs.	2676.74	/m	0.00
3	200mm dia 6Kgf/cm ²				0.00	m	
	Say	0.00	m	@ Rs.	1681.68	/m	0.00
4	160mm dia 6Kgf/cm²				0.00	m	
	Say	0.00	m	@ Rs.	1090.73	/m	0.00
5	110mm dia 6Kgf/cm²				0.00	m	
	Say	0.00	m	@ Rs.	571.87	/m	0.00
6	90mm dia 6Kgf/cm²					m	
	Say	0.00	m	@ Rs.	420.51	/m	0.00
7	75mm dia 6Kgf/cm²					m	
	Say	0.00	m	@ Rs.	319.35	/m	0.00
8	63mm dia 6Kgf/cm²					m	
	Say	0.00	m	@ Rs.	255.93	/m	0.00
9	50mm dia 6Kgf/cm²					m	
	Say	0.00	m	@ Rs.	197.04	/m	0.00
10	315mm dia 10Kgf/cm ²				0.00	m	
	Say	0.00	m	@ Rs.	6631.30	/m	0.00
11	250mm dia 10Kgf/cm ²				0.00	m	
	Say	0.00	m	@ Rs.	4186.69	/m	0.00
12	200mm dia 10Kgf/cm ²				0.00	m	
	Say	0.00	m	@ Rs.	2616.34	/m	0.00
13	160mm dia 10Kgf/cm ²				0.00	m	

	Say	0.00	m	@	Rs.	1692.25	/m	0.00
14	110mm dia 10Kgf/cm²					0.00	m	
	Say	0.00	m	@	Rs.	860.27	/m	0.00
15	90mm dia 10Kgf/cm²						m	
	Say	0.00	m	@	Rs.	597.18	/m	0.00
16	75mm dia 10Kgf/cm²						m	
	Say	0.00	m	@	Rs.	449.20	/m	0.00
17	63mm dia 10Kgf/cm²						m	
	Say	0.00	m	@	Rs.	343.50	/m	0.00
18	50mm dia 10Kgf/cm²						m	
	Say	0.00	m	@	Rs.	255.93	/m	0.00
19	40mm dia 10Kgf/cm²						m	
	Say	0.00	m	@	Rs.	194.02	/m	0.00
20	32mm dia 10Kgf/cm²					200.00	m	
	Say	200.00	m	@	Rs.	159.29	/m	31858.00
21	25mm dia 10Kgf/cm²					100.00	m	
	Say	100.00	m	@	Rs.	135.13	/m	13513.00
22	20mm dia 10Kgf/cm²						m	
	Say	0.00	m	@	Rs.	121.54	/m	0.00
	Unforeseen for launders & other misc items							2160.00
	Grand Total	•	•					22900000.00
	(Rupees Two C	Crore Twenty N	line Tho	usand	Only)			

		CONSTRUCTION OF 5 MLD SEV	VAGE TRE	ATMENT P	LANT AT	ELAMKULA	М, КОСНІ		
			ELECTRIC	AL WORKS					
ltem no	ltem Code	Description	No	L	В	н	Quantity	Unit	Amount
		SL	JB STATIC	N COMPO	NENTS				
1		10kA Surge (Lightining Arrester) Supply & Installation of Heavy Duty hor incoming line complying IS: 3070 (Part operating load of 10kV with terminals in the Engineer in Charge	- 111) &IEC	C 60099 - 4	4 (2009)	50Hz, rated	voltage of 12	kV with a	
		Surge Arrester					2.00	Nos	
		Total					2.00	Nos	
		Say		2.00	Nos	@ Rs.	4000.00	/Each	8000.0
2		11KV Drop Out Fuse Set (DO Fuse Unit) Supply & Installation of distribution fu fuse cutouts suitable for installation in 5 The rated voltage shall be 12 KV.The r type (downward) having a front connect All ferrous parts shall be hot dip galvan bolts shall conform to IS : 1364. Spring IS: 9385 (part-I to III) in all aspects or as	se cutouts 60 Hz, 11 k ated curro ted fuse c ized in ac washers	(V distribut ent shall be arrier suita cordance v shall be ele	tion syste e 100 A. ble for a with the l ectro-gal	em. The cutout ngle mounti latest versic vanized. The	s shall be of s ng. on of IS : 2632.	ingle vent Nuts and	
		DO Fuse Set				-	3.00	Nos	
		Total			1		3.00	Nos	
		Say		3.00	Nos	@ Rs.	2000.00	/Each	6000.0

	250kVA Indoor Transformer											
	Supplying, installation, testing and co	Supplying, installation, testing and commissioning of 250KVA , 11KV/433V, 3										
	Phase, 50 Hz, Dyn 11, indoor ONAN type, copper wound transformer with OFF load tap changing											
	arrangement on HV side in steps of	+/- 2.5% &	-7.5%, hav	ing cable	e end boxes	s on HV side su	uitable for					
3	3x300sqmm XLPE cable of 11 KV g											
	with all accessories i/c first filling of filtered dehydrated oil and confirming to IS 2026 (Part 1 to Part 5) &											
	as per specification attached complete in all respects as required at site or as directed by the Engineer In											
	Charge	Charge										
	Transformer					1.00	Nos					
	Total					1.00	Nos					
	Say		1.00	Nos	@ Rs.	450000.00	/Each	450000.00				
	CT - PT Unit					-						
	Supplying, installation, testing and c	ommissioning	g of Indoo	r type St	tandard 11K	V CT-PT Unit 3	Phase Dry					
4	type (with Suitable CT Ratio for the	250KVA 11/	0433 KV,	3Phase,	, 50 Hz, Dyn	11, indoor O	NAN type,					
4	copper wound dirstribution transfor	-	-	-			ecification					
	attached complete in all respects as	required at si	attached complete in all respects as required at site or as directed by the Engineer In Charge									
			1			T						
	CT-PT Unit					1.00	Nos					
	CT-PT Unit Total						Nos Nos					

		KWH Meter with TP Isolator Switch Supplying, installation, testing and commissioning of Indoor type S3phase 415V, 50Hz, wall mounted MS Cubicle type panel board for the Digital Energy Meter as well as 630A TP isolator switch including all inter connections, wiring in all etc using 14 gauge CRCA sheet painted with 2coats of superior quality								
5		enamel paint of approved color ov specification complete in all respec standards or as directed by the Engi 1. Digital Energy Meter - Ac three pl 2. 630A TP Isolator switch preferabl	ts as require ineer In Char hase static er	ed at site cor ge.	nformin	g to relevant	••••••			
		Switch Board Panel					1.00	Nos		
		Total					1.00	Nos		
		Say		1.00	Nos	@ Rs.	200000.00	/Each	200000.00	
6	5.6	Earthing with copper earth plate 60 masonry enclosure with cover plat etc. with charcoal/ coke and salt as	e having loc			•	pipe of 2.7 n	neter long		
		Earth Sets					4.00	Nos		
		Total			1		4.00	Nos		
		Say		4.00	Nos	@ Rs.	12108.57	/Each	48434.00	
7	5.10	Earthing Equipments Providing and fixing 25 mm X 5 mm connection with brass nut, bolt, spr		•		• •		including		
		Earth Sets	4	4.00			16.00	m		
		Total					16.00	m		
		Say		16.00	m	@ Rs.	1273.82	/m	20381.00	
		Grand Total								
		(Rupees Eleven Lakhs Sixty Thousand Only)								

			DIESEL	GENERATO	DR					
		250KVA Diesel Generator								
		Providing, Installing, Testing and Com	missioning	of 'Silent T	ype' Die	esel Generat	ing set alongwit	h having		
		Prime Power Rating of 250 KVA , 415 v	olts at 150	0 RPM, 0.8	lagging	power facto	r at 415 V suitab	le for 50		
		Hz, 3 phase system& for 0.85 Load Fac	ctor and co	nsisting of t	he follo	wings:				
		(i)Diesel Engine: Diesel engine 4 str	oke water	cooled, el	ectric s	tart, of suit	able BHP at 15	00 RPM		
		suitable for above output of alternato	r at 40 Deg	ree C, 50%	RH & at	: 1000 Mete	r MSL and confo	rming to		
		BS 5514, BS 649, IS 10000, capable of	taking							
		10% over loading for one hour after	er 12 hour	s of contir	nuous o	peration. Th	ne engine will b	be fitted		
		complete with all the required acces	ssories.Engi	ine mounte	ed Instru	ument Pane	l fitted with and	d having		
		digital display for following:								
		(ii)Alternator : Synchronous alternator rated at 250 KVA, 415 volts at 1500 RPM, 3 phase 50 Hz, AC								
8	MR	supply with 0.8 lagging power factor at 40 Degree C, 50% RH & at 1000 Meter MSL. The alternator shall								
0		be having SPDP enclosure, brushless, continuous duty, self-excited and self-regulated through AVR								
		conforming to IS: 4722/BS 2613 suitable for tropical conditions and with class- F/H insulation.								
		(iii)Fuel Tank: Daily service fuel tank of 200 liters capacity fabricated out of 3 mm thick M.S. sheet								
		complete with all standard accessories and fuel piping between fuel tank and diesel engine with MS								
		class 'C' pipes of suitable dia. Complete with valves, level indications & accessories as required as per								
		specifications.								
		(iv) Exhaust System : Dry exhaust mainfold with hospital exhaust silencer and catalytic convertor.								
		(v) Starting System :12V/24V DC starting system comprising of starter motors: voltage regulator and								
		arrangement for initial excitation complete with suitable nos. of batteries (25 plates, 180 Amp. Hour								
		capacity lead acid type) as required as per specifications. Accoustic and weather proof enclosure with								
		arrangement for fresh air intake for cooling of the engine & alternator, extraction, discharging hot air in								
		to the atmosphere as per specification		1.00			1			
		Diesel generator	1	1.00			1.00 N			
		Total					1.00 N			
		Say		1.00	Nos	@ Rs.	1600000.00 /	'Each	1600000.00	

10	5.6	Earthing Equipments Earthing with copper earth plate 600 masonry enclosure with cover plate etc. with charcoal/ coke and salt as rea	having loc			-		• •	
		Earth Sets					3.00	Nos	
		Total					3.00	Nos	
		Say		3.00	Nos	@ Rs.	12108.57	/Each	36326.00
11	5.10	Earthing Equipments Providing and fixing 25 mm X 5 mm c connection with brass nut, bolt, spring	•••	•		• •		e including	
		Earth Sets	3	4.00			12.00	m	
		Total					12.00	m	
		Say		12.00	m	@ Rs.	1273.82	/m	15286.00
		Grand Total							1887938.00
			MAIN C	ONTROL CEN	NTRE				
12	MR	Control Panel Design, Fabrication, Supply, Installat construction with fully automated fe thick CRCA Sheets compartmenatised with approved shade. The panel shall each equipment set with individual M Busbars, ACBs & RCCB's as specified mounting and internal wiring, earth operation on 415V, 3 phase 50Hz AC supply, installation, termination testi specifications or as directed by the Eng	ature (ind with hing have eno ICCB's/MC below w terminal supply wit ng & Con	loor type) p ge lock doors ugh size to a CB of approp vith cable al s, numberin th enclosure nmissioning	referables with D accomate priate ca ley, inte g etc, o protect	y floor moun oust, vermi pro date the indivi pacity and als erconnections complete in a cion class IP 54	ted fabricate oof and powo idual control so to have pro having all a all respect su 4 as required	d of 2mm ler coated centres of ovision for ccessories litable for . Including	

(i)	Incomer
	365A TP&N with 400A Air Circuit Breaker(ACB)
	Voltmeter (0-500V) with Selector Switch
	Ammeter (0-500A) with Selector Switch and CT's
	Set of three phase LED indicating Lamp
	Set of Copper Busbars 630Amps
	Alarm annunciators, push buttons, selector switches etc exclusively for the MCC
(ii)	Outgoing
а	Sewage Transfer Pump (25HP)
b	required for Automatic operation, selector switch for local/remote, Auto/Manual/Off operation Air Blower (34HP)
	91A TP & N with 150A MCCB with 34 HP control panel for two Air Blowers with fully automated star/delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for Automatic operation, selector switch for local/remote, Auto/Manual/Off operation
С	Filter Feed Pump (60HP)
	42A TP & N with 125A MCCB with 60 HP control panel for two pumps with fully automated Star Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for Automatic operation, selector switch for local/remote, Auto/Manual/Off operation
d	Sludge Thickener Feed Pump (1.25HP)
	2A TP & N with 6A MCB with 1.25 HP control panel for two pumps with fully automated DOL starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required

	for Automatic operation, selector switch for local/remote, Auto/Ma	nual/Off c	operation			
е	Centrifuge Feed Pump (1.0HP)					
	1.5A TP & N with 6A MCB with 1.0 HP control panel for two p overload protection, current sensing type single phase preventor co required for Automatic operation, selector switch for local/remote,	omplete w	ith all acce	ssories and inte		
f	Centrate Feed Pump (2.0HP)					
	3A TP & N with 6A MCB with 2.0 HP control panel for two pumps v protection, current sensing type single phase preventor complete w for Automatic operation, selector switch for local/remote, Auto/Ma	vith all acc	cessories ar			
g	Centrifuge (5.0HP)					
	7A TP & N with 16A MCCB with 5.0 HP control panel for the Cer starter with overload protection, current sensing type single phase internal wiring required for Automatic operation, selector switch for	e prevent	or complet	e with all acces	ssories and	
g	Gas Chlorinator (2.0HP)					
	3A TP & N with 6A MCB with 2.0 HP control panel for two Dosing overload protection, current sensing type single phase preventor co required for Automatic operation, selector switch for local/remote, a	omplete w	ith all acce	ssories and inte		
h	Poly Electrolyte Dosing Pump (2.0HP)					
	3A TP & N with 6A MCB with 2.0 HP control panel for two Dosing overload protection, current sensing type single phase preventor co required for Automatic operation, selector switch for local/remote, a	omplete w	ith all acce	ssories and inte		
i	Mechanical Screens (Coarse/Fine) (2.0HP)					
	3A TP & N with 6A MCB with 2.0 HP control panel for two mecha	nical scree	ens with fu	lly automated [DOL starter	

			overload protection, current sensing type single phase preventor complete with all accessories and internal ng required for Automatic operation, selector switch for local/remote, Auto/Manual/Off operation										
	j	Mixing Equipment (4.0HP)											
		DOL starter with overload protection, curre	with 16A MCCB with 4.0 HP control panel for the two flash mixing equipments with fully automated with overload protection, current sensing type single phase preventor complete with all accessories wiring required for Automatic operation, selector switch for local/remote, Auto/Manual/Of										
	k	63A MCCB for transformer Housing Build	ding										
	I	63A MCCB for Centrifuge Building											
	m	100A MCCB for External Lightning DB											
	n	100A MCCB as spare											
		Total						1.00	Nos				
		Say		1	Nos	@	Rs.	200000.00	/Nos	200000.00			
		WIRING FOR EACH EQUIPMENT											
13	OBS BASED ON DSR (E&M) 7.1	direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc.											
	1	3.5 x 400 sq. mm						0.00	m				
		Say		0.00	m	@	Rs.	4071.69	/m	0.00			
	2	3.5 x 300 sq. mm						200.00	m				
		Say		200.00	m	@	Rs.	3266.77	/m	653354.00			
	3	3.5 x 240 sq. mm						0.00	m				
		Say		0.00	m	@	Rs.	2720.87	/m	0.00			

	2 5 - 105				0.00		
4	3.5 x 185 sq. mm				0.00	m	
	Say	0.00	m	@ Rs.	2221.42	/m	0.00
5	3.5 x 150 sq. mm				0.00	m	
	Say	0.00	m	@ Rs.	1845.10	/m	0.00
6	3.5 x 120 sq. mm					m	
	Say	0.00	m	@ Rs.	1603.50	/m	0.00
7	3.5 x 95 sq. mm					m	
	Say	0.00	m	@ Rs.	1344.49	/m	0.00
8	3.5 x 70 sq. mm				0.00	m	
	Say	0.00	m	@ Rs.	1141.23	/m	0.00
9	4 X 50 sq. mm				300.00	m	
	Say	300.00	m	@ Rs.	985.59	/m	295677.00
10	4 X 35 sq. mm				50.00	m	
	Say	50.00	m	@ Rs.	834.59	/m	41730.00
10	4 X 25 sq. mm				250.00	m	
	Say	250.00	m	@ Rs.	721.93	/m	180483.00
9	4 X 16 sq. mm				100.00	m	
	Say	100.00	m	@ Rs.	619.71	/m	61971.00
10	4 X 10 sq. mm				150.00	m	
	Say	150.00	m	@ Rs.	582.55	/m	87383.00
10	4 X 6 sq. mm				300.00	m	
	Say	300.00	m	@ Rs.	524.47	/m	157341.00

	10	4 X 4 sq. mm						300.00	m			
		Say		300.00	m	@	Rs.	495.43	/m	148629.00		
14		Supplying and Laying of PVC insulated and PVC sheathed / XLPE power cable of Copper conductor XLPE control cables as per is:7098/Part-I/88 with latest amendments 1.1 kv grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as 1 required in the specifications or as directed by the Engineer in Charge.										
	1	3.5 x 300 sq. mm						0.00	m			
		Say		0.00	m	@	Rs.	28868.56	/m	0.00		
	2	3.5 x 120 sq. mm						0.00	m			
		Say		0.00	m	@	Rs.	10702.70	/m	0.00		
	3	3.5 x 70 sq. mm						0.00	m			
		Say		0.00	m	@	Rs.	5940.55	/m	0.00		
	4	4 X 50 sq. mm						0.00	m			
		Say		0.00	m	@	Rs.	4463.12	/m	0.00		
	5	4 X 35 sq. mm						0.00	m			
		Say		0.00	m	@	Rs.	3334.14	/m	0.00		
	6	4 X 25 sq. mm						0.00	m			
		Say		0.00	m	@	Rs.	2490.89	/m	0.00		
	7	4 X 16 sq. mm						0.00	m			
		Say		0.00	m	@	Rs.	1713.85	/m	0.00		
	8	4 X 10 sq. mm						0.00	m			
		Say		0.00	m	@	Rs.	1251.57	/m	0.00		

	9	4 X 6 sq. mm					0.00	m	
		Say	0.00	m	@	Rs.	894.99		0.00
	10	4 X 4 sq. mm					0.00	m	
		Say	0.00	m	@	Rs.	714.96	/m	0.00
		BRASS GLANDS & ALUMINIUM LUGS							
15	9.1	Supplying and making end termination wi size of PVC insulated and PVC sheathed I X		-			-	-	T .
	9.1.20	3½ X 25 sq. mm (28 mm)					0.00	Nos	
		Say	0.00	Nos	@	Rs.	375.43	/Each	0.00
	9.1.21	3½ X 35 sq. mm (32 mm)					0.00	Nos	
		Say	0.00	Nos	@	Rs.	411.95	/Each	0.00
	9.1.22	3½ X 50 sq. mm (35 mm)					0.00	Nos	
		Say	0.00	Nos	@	Rs.	517.12	/Each	0.00
	9.1.30	3½ X 300 sq. mm (70 mm)					15.00	Nos	
		Say	15.00	Nos	@	Rs.	1615.64	/Each	24235.00
	9.1.32	4 X 10 sq. mm (25 mm)					10.00	Nos	
		Say	10.00	Nos	@	Rs.	296.54	/Each	2965.00
	9.1.33	4 X 16 sq. mm (28 mm)					10.00	Nos	
		Say	10.00	Nos	@	Rs.	372.50	/Each	3725.00
	9.1.34	4 X 25 sq. mm (28 mm)					10.00	Nos	
		Say	10.00	Nos	@	Rs.	376.89	/Each	3769.00
	9.1.35	4 X 35 sq. mm (32 mm)					10.00	Nos	
		Say	10.00	Nos	@	Rs.	413.41	/Each	4134.00
	9.1.36	4 X 50 sq. mm (35 mm)					10.00	Nos	
		Say	10.00	Nos	@	Rs.	522.97	/Each	5230.00
16	2200	Supplying and fixing of Aluminium Lugs							
	2201	Aluminium lugs for 6 sq. mm cable					30.00	Nos	

		Say	30	0.00	Nos	@	Rs.	2.	32 /Each	า	70.00
	2202	Aluminium lugs for10 sq. mm cable						30.00	Nos		
		Say	30	0.00	Nos	@	Rs.	3.	01 /Each	า	90.00
	2203	Aluminium lugs for 16 sq. mm cable						0.00	Nos		
		Say	0.	.00	Nos	@	Rs.		51 /Each	า	0.00
	2204	Aluminium lugs for 25 sq. mm cable						30.00	Nos		
		Say	30	0.00	Nos	@	Rs.		53 /Each	ו	136.00
	2205	Aluminium lugs for 35 sq. mm cable						0.00	Nos		
		Say	0.	.00	Nos	@	Rs.		9 /Each	<u>ו</u>	0.00
	2206	Aluminium lugs for 50 sq. mm cable						30.00	Nos		
		Say Earthing Equipments	30	0.00	Nos	@	Rs.	9.	07 /Each	ו	272.00
17	5.6	Earthing with copper earth plate 600 masonry enclosure with cover plate h etc. with charcoal/ coke and salt as r	naving locking equired. ndivi	g arrange idual 2 I	ement a Earthing	nd wa s for S	atering Sewag	g pipe of 2.7 e Transfer P	meter l	long	
17	5.6	masonry enclosure with cover plate h	naving locking equired. ndivi	g arrange idual 2 I	ement a Earthing	nd wa s for S	atering Sewag	g pipe of 2.7 e Transfer P anel	meter l	long	
17	5.6	masonry enclosure with cover plate h etc. with charcoal/ coke and salt as r Feed Pumps & Air Blowers & 3Nos of C	naving locking equired. ndivi	g arrange idual 2 I	ement a Earthing	nd wa s for S	atering Sewag	g pipe of 2.7 e Transfer P anel 10.1	meter l umps, F	long	
17	5.6	masonry enclosure with cover plate h etc. with charcoal/ coke and salt as r Feed Pumps & Air Blowers & 3Nos of C Earth Sets	naving locking equired. ndivi	g arrange idual 2 I	ement a Earthing the Cont	nd wa s for S rol Ce	atering Sewag	g pipe of 2.7 e Transfer P anel 10.1	meter l umps, F	ilter	121086.00
17	5.6	masonry enclosure with cover plate h etc. with charcoal/ coke and salt as r Feed Pumps & Air Blowers & 3Nos of C Earth Sets Total	aving locking equired. ndivi ommon Earth	g arrange idual 2 I ning for t 10.00 40 mm	ement a Earthing the Cont Nos dia G.I.	nd wa s for S rol Ce @ pipe f	atering Sewag ntre P Rs.	g pipe of 2.7 e Transfer P anel 10.1 10.1 12108.1 earth electro	meter l umps, F 00 Nos 00 Nos 57 /Each	long Filter	121086.00
		masonry enclosure with cover plate h etc. with charcoal/ coke and salt as r Feed Pumps & Air Blowers & 3Nos of C Earth Sets Total Say Earthing Equipments Providing and fixing 25 mm X 5 mm c	aving locking equired. ndivi ommon Earth	g arrange idual 2 I ning for t 10.00 40 mm	ement a Earthing the Cont Nos dia G.I. nd re-fill	nd wa s for S rol Ce @ pipe f	atering Sewag ntre P Rs.	g pipe of 2.7 e Transfer P anel 10.1 10.1 12108.1 earth electro equired.	meter l umps, F 00 Nos 00 Nos 57 /Each	long Filter	121086.00
		masonry enclosure with cover plate h etc. with charcoal/ coke and salt as r Feed Pumps & Air Blowers & 3Nos of C Earth Sets Total Say Earthing Equipments Providing and fixing 25 mm X 5 mm c connection with brass nut, bolt, spring	aving locking equired. ndivi ommon Earth	g arrange idual 2 I ning for t 10.00 40 mm vation a	ement a Earthing the Cont Nos dia G.I. nd re-fill	nd wa s for S rol Ce @ pipe f	atering Sewag ntre P Rs.	g pipe of 2.7 e Transfer P anel 10.1 10.1 12108.1 earth electro equired. 40.1	meter l umps, F 00 Nos 00 Nos 57 /Each de inclue	long Filter	121086.00
		masonry enclosure with cover plate h etc. with charcoal/ coke and salt as r Feed Pumps & Air Blowers & 3Nos of C Earth Sets Total Say Earthing Equipments Providing and fixing 25 mm X 5 mm c connection with brass nut, bolt, spring Earth Sets	aving locking equired. ndivi ommon Earth	g arrange idual 2 I ning for t 10.00 40 mm vation a	ement a Earthing the Cont Nos dia G.I. nd re-fill	nd wa s for S rol Ce @ pipe f ing et	atering Sewag ntre P Rs.	g pipe of 2.7 e Transfer P anel 10.1 10.1 12108.1 earth electro equired. 40.1	meter l umps, F 00 Nos 00 Nos 00 Nos 07 /Each de inclue 00 m	long Filter	121086.00

19	2.5.3	Power Distribution Board (Control Rod Supplying and fixing of following wa distribution board of sheet steel, dust bus bar, common neutral link, earth bar required. (Note : Vertical type MCB TPL outlets are required.) 12 way (4 + 36) , (i) Incoming - 63A MCCB & 63A, 100m/ ii) Outgoing Feeders - 4Nos of 25A MCC iii) Outgoing Feeders - 1Nos of 6A MCB iv) Outgoing Feeders - 2Nos Spares	ays surface protected, ar, din bar f DB is norma Double doo A RCCB CB with 25A	duly powc or mounti ally used w or	er paint ng MCBs here 3 p	ed, inclusive (but withou	of 200 A, tinn	ed copper	
		PDB-01	1				1.00	Nos	
		Total					1.00	Nos	
		Say		1	Nos	@ Rs.	10501.69	/Each	10502.00
20	2.5.3	Power Distribution Board (Centrifuge Supplying and fixing of following wa distribution board of sheet steel, dust bus bar, common neutral link, earth ba required. (Note : Vertical type MCB TPE outlets are required.) 12 way (4 + 36) , (i) Incoming - 63A MCCB & 63A , 100m/ ii) Outgoing Feeders - 1Nos of 40A MCC iii) Outgoing Feeders - 3Nos of 20A MC iv) Outgoing Feeders - 2Nos Spares	ays surface protected, ar, din bar f DB is norma Double doo A RCCB CB with 40A	duly powc or mounti ally used w or	er paint ng MCBs here 3 p	ed, inclusive (but withou	of 200 A, tinn	ed copper	
		PDB-03	1				1.00	Nos	
		Total			•		1.00	Nos	
		Say		1	Nos	@ Rs.	10501.69	/Each	10502.00

21	2.2.1	MCCB/MCB/RCCB Providing and fixing following rating and and terminal spreaders in existing cubi connections, etc. as required. 63 A, 16 kA, TPMCCB		•		-		
		Total				2.00	Nos	
		Say	2.00	Nos	@ Rs.	4700.85	/Each	9402.00
22	2.10.5	MCCB/MCB/RCCB Supplying and fixing 5 A to 32 A rating for inductive load of following poles in commissioning etc. as required.						
		Total				11.00	Nos	
		Say	11.00	Nos	@ Rs.	1301.57	/Each	14317.00
23	2.15.1	Supplying and fixing following rating, fo breaker (RCCB), having a sensitivity cur testing and commissioning etc. as requi	rrent 30 mA in the e			olete with co	nnections,	
23	2.15.1	breaker (RCCB), having a sensitivity cur	rrent 30 mA in the e red. 40 A	existing	MCB DB comp	blete with con	nnections, Nos	
23	2.15.1	breaker (RCCB), having a sensitivity cur testing and commissioning etc. as requi Total Say	rrent 30 mA in the e red. 40 A			olete with co	nnections, Nos	6226.00
23	2.15.1	breaker (RCCB), having a sensitivity cur testing and commissioning etc. as requi Total	rrent 30 mA in the e red. 40 A 2.00 ur pole, (three phas rrent 30 mA in the e	Nos e and ne	MCB DB comp @ Rs. eutral), 415 V,	olete with con 2.00 3112.96 residual curr	nnections, Nos /Each ent circuit	6226.00
		breaker (RCCB), having a sensitivity cur testing and commissioning etc. as requi Total Say MCCB/MCB/RCCB Supplying and fixing following rating, fo breaker (RCCB), having a sensitivity cur	rrent 30 mA in the e red. 40 A 2.00 ur pole, (three phas rrent 30 mA in the e	Nos e and ne	MCB DB comp @ Rs. eutral), 415 V,	olete with con 2.00 3112.96 residual curr	Nos /Each ent circuit nnections,	6226.00
		breaker (RCCB), having a sensitivity cur testing and commissioning etc. as requi Total Say MCCB/MCB/RCCB Supplying and fixing following rating, fo breaker (RCCB), having a sensitivity cur testing and commissioning etc. as requi	rrent 30 mA in the e red. 40 A 2.00 ur pole, (three phas rrent 30 mA in the e red. 63 A	Nos e and ne	MCB DB comp @ Rs. eutral), 415 V,	2.00 2.00 3112.96 residual curr plete with con	Nos /Each ent circuit nnections, Nos	6226.00
		breaker (RCCB), having a sensitivity cur testing and commissioning etc. as requi Total Say MCCB/MCB/RCCB Supplying and fixing following rating, fo breaker (RCCB), having a sensitivity cur testing and commissioning etc. as requi Total	rrent 30 mA in the e red. 40 A 2.00 ur pole, (three phas rrent 30 mA in the e red. 63 A	existing Nos e and ne existing	MCB DB comp @ Rs. eutral), 415 V, MCB DB comp	2.00 3112.96 residual curr plete with con 2.00	Nos /Each ent circuit nnections, Nos	

	1.24.1	5/6A Switch					72.00	Nos	
		Say	72.00	Nos	@	Rs.	122.71	/Each	8835.00
	1.24.2	2 way 5/6 A switch					0.00	Nos	
		Say	0.00	Nos	@	Rs.	144.62	/Each	0.00
	1.24.3	15/16 A switch					10.00	Nos	
		Say	10.00	Nos	@	Rs.	166.53	/Each	1665.00
	1.24.4	3 pin 5/6 A socket outlet					12.00	Nos	
		Say	12.00	Nos	@	Rs.	118.32	/Each	1420.00
	1.24.5	6 pin 15/16 A socket outlet					10.00	Nos	
		Say	10.00	Nos	@	Rs.	223.50	/Each	2235.00
	1.24.6	Telephone socket outlet					4.00	Nos	
		Say	4.00	Nos	@	Rs.	140.24	/Each	561.00
		GI Box	12.00			De	12.00	Nos	4040.00
		Say	12.00	Nos		Rs.	337.44	/Each	4049.00
27	1.27.6						337.44	/Each	4049.00
27	1.27.6	Say Supplying and fixing following size/ mo					337.44	/Each	4049.00
27	1.27.6	Say Supplying and fixing following size/ mo switches in recess etc. as required.			dular k		337.44 cover plate fo	/Each r modular Nos	
27	1.27.6	Say Supplying and fixing following size/ mo switches in recess etc. as required. 12 Module (200 mmX150 mm)	dules, GI box alon	gwith moo	dular k @	base &	337.44 cover plate fo 12.00 502.52	/Each r modular Nos /Each	
27 28	1.27.6	Say Supplying and fixing following size/ mo switches in recess etc. as required. 12 Module (200 mmX150 mm) Say	dules, GI box alon 12.00 x with modular pl	with moo	dular k @ over ir	Rs.	337.44 cover plate fo 12.00 502.52 con surface or	/Each r modular Nos /Each in recess,	
		Say Supplying and fixing following size/ mo switches in recess etc. as required. 12 Module (200 mmX150 mm) Say Supplying and fixing suitable size GI bo including providing and fixing 6 pin 5/6	dules, GI box alon 12.00 x with modular pl	with moo	dular k @ over ir	Rs.	337.44 cover plate fo 12.00 502.52 con surface or	/Each r modular Nos /Each in recess,	
		Say Supplying and fixing following size/ mo switches in recess etc. as required. 12 Module (200 mmX150 mm) Say Supplying and fixing suitable size GI bo including providing and fixing 6 pin 5/6	dules, GI box alon 12.00 x with modular pl	with moo	dular b @ over ir t outle	Rs.	337.44 cover plate fo 12.00 502.52 on surface or 15/16 A modu	/Each r modular Nos /Each in recess, lar switch, Nos	6030.00
		Say Supplying and fixing following size/ mo switches in recess etc. as required. 12 Module (200 mmX150 mm) Say Supplying and fixing suitable size GI bo including providing and fixing 6 pin 5/6 connections etc. as required.	dules, GI box along 12.00 x with modular pl A & 15/16 A modu 10.00	with mod	dular b @ over ir t outle @	Rs. Rs. front et and Rs.	337.44 cover plate fo 12.00 502.52 on surface or 15/16 A modu 10.00 593.08	/Each r modular Nos /Each in recess, lar switch, Nos /Each	6030.00
		SaySupplying and fixing following size/ moswitches in recess etc. as required.12 Module (200 mmX150 mm)SaySupplying and fixing suitable size GI boincluding providing and fixing 6 pin 5/6connections etc. as required.SaySupplying and fixing of following size	dules, GI box along 12.00 x with modular pl A & 15/16 A modu 10.00 res of medium c	with mod Nos ate and co ilar socket Nos lass PVC	dular t @ over ir t outle @ condu	Rs. Rs. Rs. Rs. uit alc	337.44 cover plate for 12.00 502.52 con surface or 15/16 A modu 10.00 593.08 ong with acce	/Each r modular Nos /Each in recess, lar switch, Nos /Each	6030.00
28	1.32	Say Supplying and fixing following size/ mo switches in recess etc. as required. 12 Module (200 mmX150 mm) Say Supplying and fixing suitable size GI bo including providing and fixing 6 pin 5/6 connections etc. as required. Say	dules, GI box along 12.00 x with modular pl A & 15/16 A modu 10.00 res of medium c	with mod Nos ate and co ilar socket Nos lass PVC	dular t @ over ir t outle @ condu	Rs. Rs. Rs. Rs. uit alc	337.44 cover plate for 12.00 502.52 con surface or 15/16 A modu 10.00 593.08 ong with acce	/Each r modular Nos /Each in recess, lar switch, Nos /Each	4049.00 6030.00 5931.00
28	1.32	Say Supplying and fixing following size/ mo switches in recess etc. as required. 12 Module (200 mmX150 mm) Say Supplying and fixing suitable size GI bo including providing and fixing 6 pin 5/6 connections etc. as required. Say Supplying and fixing of following siz surface/recess including cutting the wal	dules, GI box along 12.00 x with modular pl A & 15/16 A modu 10.00 res of medium c	with mod Nos ate and co ilar socket Nos lass PVC	dular t @ over ir t outle @ condu	Rs. Rs. Rs. Rs. uit alc	337.44 cover plate for 12.00 502.52 con surface or 15/16 A modu 10.00 593.08 ong with acce	/Each r modular Nos /Each in recess, lar switch, Nos /Each	6030.00

		Say		250.00	m	@	Rs.	10	0.80	/m	25199.00
		Wiring for circuit/ submain wiring along	-				-				
30	1.14.7	copper conductor, single core cable in				lass	PVC c	onduit as	rec	uired. For	
30	1.14.7	Building wiring. 4 X 2.5 sq. mm + 2 X 2.5	sq. mm e	arth wire							
						1					
		Total						15	0.00	m	
		Say		150.00	m	@	Rs.	31	4.07	/m	47111.00
		Wiring for circuit/ submain wiring along					•				
31	1.14.8	copper conductor, single core cable in			medium c	lass	PVC c	onduit as	rec	uired. For	
		Building wiring. 4 X 4 sq. mm + 2 X 4 sq.	mm earth	n wire							
		Total						10	0.00	m	
		Say		100.00	m	@	Rs.	41	0.48	/m	41048.00
		Wiring for circuit/ submain wiring along	gwith eart	h wire wi:	th the foll	owir	ng size	s of FRLS	PVC	insulated	
32	1.14.9	copper conductor, single core cable in	•		medium c	lass	PVC c	onduit as	rec	uired. For	
		Building wiring. 4 X 6 sq. mm + 2 X 6 sq.	mm earth	n wire							
		Total						5	0.00	m	
		Say		50.00	m	@	Rs.	57	7.02	/m	28851.00
		Wiring for circuit/ submain wiring along	gwith eart	h wire wi	th the foll	owi	ng size	s of FRLS	PVC	insulated	
33	1.14.10	copper conductor, single core cable in	surface/	recessed	medium c	lass	PVC c	onduit as	rec	uired. For	
		Building wiring. 4 X 10 sq. mm + 2 X 6 sq	. mm ear	th wire							
		Total							0.00	m	
		Say		0.00	m	@	Rs.	78	2.99	/m	0.00
		Wiring for circuit/ submain wiring along	gwith eart	h wire wi	th the foll	owi	ng size	s of FRLS	PVC	insulated	
34	1.14.11	copper conductor, single core cable in	surface/	recessed	medium c	lass	PVC c	onduit as	rec	uired. For	
		Building wiring. 4 X 16 sq. mm + 2 X 6 sq	. mm ear	th wire							
		Total				Γ			0.00	m	

33	MR	Installation, testing and commissioning of p all types, complete with all accessories an arrangement, 2 Nos. down rods of 20 mr excluding the wiring.	d tube etc., i	ncluding	supplying a	nd fixing ball a	nd socket	
	а	36W LED Tube Set (HAVELLS or equivalent)				16.00	Nos	
		Say	20.00	Nos	@ Rs.	620.00		12400.00
	b	20W LED Tube Set (HAVELLS or equivalent)				12.00	Nos	
		Say	16.00	Nos	@ Rs.	400.00	/Each	6400.00
34	MR	Supply, Installation, testing and commission and fixing phenolic laminated sheet cover o or equivalent make			-			
	Ť.							
		Ceiling Fan				12.00	Nos	
		Ceiling Fan Say	13.00	Nos	@ Rs.	12.00 2000.00		26000.00
35	MR	-	ting opening,	including	making goo	2000.00 d the damage,	/Each	
35	MR	Say Supply ,Installation of exhaust fan in the exis connection, testing, commissioning etc. as r	ting opening,	including	making goo	2000.00 d the damage,	/Each	
35	MR	Say Supply ,Installation of exhaust fan in the exis connection, testing, commissioning etc. as r equivalent make	ting opening,	including	making goo	2000.00 d the damage, (260mm) Exha	/Each ust Fan or Nos	
35	MR 1.49	SaySupply ,Installation of exhaust fan in the exis connection, testing, commissioning etc. as r equivalent makeExhaust Fan	ting opening, equired. Usha 4.00	including Crisp Air	making goo r Premia CV @ Rs.	2000.00 d the damage, (260mm) Exha	/Each ust Fan or Nos	
		SaySupply ,Installation of exhaust fan in the exis connection, testing, commissioning etc. as r equivalent makeExhaust FanSay	ting opening, equired. Usha 4.00	including Crisp Air	making goo r Premia CV @ Rs.	2000.00 d the damage, (260mm) Exha	/Each ust Fan or Nos	
		SaySupply ,Installation of exhaust fan in the exis connection, testing, commissioning etc. as r equivalent makeExhaust FanSay	ting opening, equired. Usha 4.00	including Crisp Air	making goo r Premia CV @ Rs.	2000.00 d the damage, (260mm) Exha 4.00 1500.00 44.00	/Each ust Fan or Nos /Each	
		Say Supply ,Installation of exhaust fan in the exis connection, testing, commissioning etc. as r equivalent make Exhaust Fan Say Numbering of ceiling fan/ exhaust fan/ fluore	ting opening, equired. Usha 4.00 escent fittings 53.00 g, 40 mm dia	including a Crisp Air Nos as requir Nos including	making goo r Premia CV @ Rs. ed. @ Rs. g accessories	2000.00 d the damage, (260mm) Exha 4.00 44.00 44.00 40.90 s, and providing	/Each ust Fan or Nos /Each /Each g masonry	6000.00 2168.00

		Say		2	Nos	@ Rs.	5364.06	/Set	10728.00
			EXTERN	AL LIGHTI	NG	-			
38	2.5.3	Power Distribution Board (Control Roo Supplying and fixing of following war distribution board of sheet steel, dust p bus bar, common neutral link, earth bar required. (Note : Vertical type MCB TPD outlets are required.) 12 way (4 + 36), D (i) Incoming - 100A MCCB & 63A, 100m ii) Outgoing Feeders - 10Nos of 6A MCB	ys surface protected, r, din bar f PB is norma Double doo A RCCB	duly powc or mounti ally used w	ler painteo ng MCBs (d, inclusive but withou	of 200 A, tinn	ed copper	
		PDB-01	1				1.00	Nos	
		Total					1.00	Nos	
		Say		1	Nos	@ Rs.	10501.69	/Each	10502.00
39	2.2.1	MCCB/MCB/RCCB Providing and fixing following rating and and terminal spreaders in existing cubi connections, etc. as required. 100 A, 16 kA, TPMCCB		• •	•		•		
		Total					3.00	Nos	
		Say		3.00	Nos	@ Rs.	4700.85	/Each	14103.00
40	2.10.5	MCCB/MCB/RCCB Supplying and fixing 5 A to 32 A rating for inductive load of following poles in							
		commissioning etc. as required.							
		commissioning etc. as required. Total					10.00	Nos	

41	2.15.1	MCCB/MCB/RCCB Supplying and fixing following rating, for breaker (RCCB), having a sensitivity cur testing and commissioning etc. as requir	rent 30 m	•		-			
		Total					3.00	Nos	
		Say		3.00	Nos	@ Rs.	3362.76	/Each	10088.00
42	2.15.3	MCCB/MCB/RCCB Supplying and fixing following rating, for breaker (RCCB), having a sensitivity cur testing and commissioning etc. as require	rent 30 m	•		-			
43	OBS BASED ON DSR (E&M) 7.1	WIRING Supplying and Laying of PVC insulated a control cables as per is:7098/Part-I/88 ground including excavation, sand cur required in the specifications or as direc	with lates shioning,	t amendn protective	nents 1.1 e covering	kv grade o g and refi	of following siz	e direct in	
		4 x 4 sq. mm					300.00	m	
		Say		300.00	m	@ Rs.	714.96	/m	214488.00
44	11.3.1	Poles Erection of metallic pole of following l graded stone aggregate 40 mm nomi required. Above 4.5 metre and upto 6.5	nal size)			-			
		Street Light Pole					20.00	Nos	
		Say		20.00	Nos	@ Rs.	4031.81		80636.00
45	12.34	Supplying and fixing of 32 mm dia X 2. fluorescent / HPMV / HPSV street light 2 Nos. 40 mm X 3 mm flat iron clamps w finish paint etc. as required.	fitting on	pole inclu	ding bend	ing the pip	e to the requi	red shape,	

		Street Light Pole						20.00	Nos	
		Say		20.00	Nos	@	Rs.	1070.77	/Each	21415.00
46	MR	Supplying and Fixing of LUMINAIRE 72W LED) or Equivalent	for street lig	ght 72W I	ED light	(Bajaj	Make	e Cat.No. 1696	20 BRTFG	
		Street Light						20.00	Nos	
		Say		20.00	Nos	@	Rs.	6800.00	/Each	136000.00
47	15.4.3	Astronomical Time Switch Supplying, installation, testing and con to be mounted in feeder pillars / Ligl set & sun rise or twilight (Auto ON, Au display format with suitable battery a required. 3 output (1output per phase	hting DBs fo ito OFF, Auto and indicatio	r automat o modes) n for rela	ic switch with man y status i	ing Or iual ov i/c pro	n & O erride grami	FF of street lig facility with 1	hts at sun 2/24 hour	
		Panel						1.00	Nos	
		Say		1.00	Nos	@	Rs.	9135.84	/each	9136.00
		EARTHING AND SAFETY EQUIPMENT	r							5150.00
48		Earthing with G.I. earth pipe 4.5 me enclosure with cover plate having loc salt as required. Earthing for the Build	ter long, 40 king arrange		-				•	5150.00
48		Earthing with G.I. earth pipe 4.5 me enclosure with cover plate having loc	ter long, 40 king arrange		-				coke and	5150.00
48		Earthing with G.I. earth pipe 4.5 me enclosure with cover plate having loc salt as required. Earthing for the Build	ter long, 40 king arrange	ement and	-		etc. v	with charcoa I/	coke and	
48	MR	Earthing with G.I. earth pipe 4.5 me enclosure with cover plate having loc salt as required. Earthing for the Build Total	ter long, 40 king arrange ling 202) type fire	ement and 4.00 e extinguis	waterin	g pipe	etc. v Rs.	with charcoa I/ 4.00 5364.06 5 2878 : 1976	coke and	
	MR	Earthing with G.I. earth pipe 4.5 me enclosure with cover plate having loc salt as required. Earthing for the Build Total Say FIRE EXTINGUISHERS Providing and fixing carbon dioxide (C	ter long, 40 king arrange ling 202) type fire	ement and 4.00 e extinguis	waterin	g pipe	etc. v Rs.	with charcoa I/ 4.00 5364.06 5 2878 : 1976	coke and Nos /Set	21456.00

50	MR	FIRE EXTINGUISHERS Supply and fixing of foam fire extinguishers, Portable type 9 lit capacity hanged on wall with bracket complete as required. at designated places								
		Total				10.00	Nos			
		Say		10.00 Nos	@ Rs.	1800.00	/Set	18000.00		
51	MR	Supply and fixing of all sorts o safety instruction charts etc as	•	ostation inclu	ding fire buck	ets, danger sig	-	5,		
		Say		1.00 Nos	@ Rs.	50000.00		50000.00		
52	LS	Provisional sum for payment of connection to STP Site	of construction of 600N	1 11KV line b	y KSEB for ava	ling 11KV pov	ver	874904.00		
		Grand Total						1100000.00		
			(Rupees One Crore	Ten Lakhs O	nly)					

OPERATION & MAINTANANCE

	Oneration and Maintonan	o Fati	mata	
SI.	Operation and Maintenand	e esu		
No.	Description			Expenditure (Rs)
1	Power Charges			
1	Power charges @ Rs. 5 for KWh @ 121.5KWH working at 10hrs a day.			182,25
	Total			182,25
	* The rate may fluctaute according to the actual usage of plan	t and var	iation in KS	EB rates
А	Staffs for Operation			
1	Operators	3	20,000	60,00
2	Assistant Operator	3	15,000	45,000
3	General Duty Fitter	3	20,000	60,00
	Sub Total			165,00
B	Fuel For Generator (Working Half load 29litres @ 60rs/litr approx 10hrs a month)			17,40
С	Cost of micselaneous materials including chemicals, spare parts & lubricants			
1	Gas Chlorine (300kg @ Rs.20/kg			6,00
2	Poly Electrolyte Dose (60kg @ Rs.190/kg)			11,40
3	Spares, Lubricants & Replacements			10,00
	Sub Total			27,40
	Grand Total Per Month			392,05
	Annual Operation & Maintenance Cha	arge		4,705,000
	Treatment Cost per day			12,89
	Unit Cost of Treatment per Kilo Liter			2.5

The rates mentioned above are the local market rates prevailing at present and the same shall be vary according to the market fluctuations. This is just an indication of the O&M costing

05 Year Annual O&M Cost consideri each year	05 Year Annual O&M Cost considering 10% annual increase each year				
First Year	4,705,000				
Second Year	5175500				
Third Year	5693050				
Fourth Year	6262355				
Fifth Year	6888591				
Grand Total for 5years O&M	28,720,000				

OBSERVED DATA

	CONSTRUCTION OF 5 MLD SEWAGE TREATMENT PLANT AT ELAMKULAM, KOCH							
	OBSERVED DATA - CIVIL							
Item No:	Item Code	Description	Units	Quantity	Rate	Amount		
1	OBS DATA BASED ON 5.37.1+5.34.1	Providing and laying in por reinforced cement concrete content as per approved design plant and transported to sit continuous agitated mixer, m for reinforced cement concre- mixer to site of laying excludi- reinforcement, including cost per IS : 9103 to accelerate/ without impairing strength and charge. (Note :- Cement con- Excess/less cement used as per All works upto plinth level	work, us gn mix, m e of work aanufactur te work, ir ing the co t of admix retard se nd durabili ntent cons	ing Sulphate anufactured in c in transit m ed as per mix acluding pump st of centering ctures in reco tting of conce ty as per direct idered in this	Resistant n fully autor ixer for all design of s bing of R.M. g, shuttering mmended rete, impro ction of the s item is @	Cement (SRC) matic batching leads, having pecified grade C. from transit g finishing and proportions as ve workability Engineer - in - 0 340 kg/cum.		
		Details of cost for 1 cum						
		MATERIAL:						
	295	Stone Aggregate (Single	cum	0.570	1300.00	741.00		
	297	Stone Aggregate (Single	cum	0.280	1300.00	364.00		
	2202	Carriage of stone aggregate b	cum	0.850	103.77	88.20		
	982	Coarse sand (zone III)	cum	0.425	1200.00	510.00		
	2203	Carriage of coarse sand	cum	0.425	103.77	44.10		
	MR	Sulphate Resistant Cement (C	Т	0.340	11550.00	3927.00		
	2209	Carriage of cement	Т	0.340	92.24	31.36		
		0.50% of cement Production Cost, carriage to site, pumping to respective floors						
	7318	and laying in position	Kg	1.700	38.00	64.60		
	004	Production cost of concrete by batch mix plant	cum	1.000	400.00	400.00		
	0029	Carriage of concrete by Pumping charges of concrete		10.000	23.00			
	009	including Hire charges of pump, piping work &	cum	1.000	200.00	200.00		
	455		مادين	0 4 7 0	467.00	70.00		
	155	Mason (average)	day	0.170	467.00			
	114	Beldar	day	2.000	368.00			
	101	Bhisti	day	0.900	407.00			
	0012	Vibrator (Needle type 40 mm		0.070	350.00			
	9999	Sundries Total	L.S.	13.000	1.73	22.49		
						7828.95		
		Add water charges 1% Total				78.29		
		Add CPOH 15%				7907.24 1186.09		
						1100.09		

		Total				9093.32
		deduct MR incl CP&OH				4516.05
		Total				4577.27
		Kochi (1.4608)				6686.48
		add MR incl CP&OH				4516.05
		Total				11202.53
		SAY	Rs	11202.53	/m³	11202100
		Providing and laying in po			-	concrete for
		reinforced cement concrete w		•	-	
		per approved design mix, ma		•		
		transported to site of work				
		agitated mixer, manufacture				-
		reinforced cement concrete	•	-	•	-
	OBS DATA	mixer to site of laying , , exc		- · ·	-	
2	BASED ON	and reinforcement, including	-		-	
	5.37.2+5.34.1	as per IS : 9103 to accelerate				
		without impairing strength an		-	•	
		charge. (Note :- Cement cor				
		Excess/less cement used as pe				-
		All works above plinth level u	-		/ 10000100	ie separately).
		Details of cost for 1 cum				
		MATERIAL:				
	295	Stone Aggregate (Single	cum	0.570	1300.00	741.00
	297	Stone Aggregate (Single	cum	0.280	1300.00	
	2202	Carriage of stone aggregate	cum	0.850	103.77	88.20
	982	Coarse sand (zone III)	cum	0.425	1200.00	
	2203	Carriage of coarse sand	cum	0.425	103.77	44.10
	MR	Sulphate Resistant Cement (0		0.340	11550.00	
	2209	Carriage of cement	T	0.340	92.24	31.36
	7318	Plasticizer/ Super Plasticizer	Kg	1.700		
	004	Production cost of concrete	cum	1.000	400.00	400.00
	0029	Carriage of concrete by	km/cum	10.000	23.00	230.00
	9	Pumping charges of concrete		20.000	_0.00	_200.00
	-		cum	1.000	200.00	200.00
		LABOUR	cum	1.000	200.00	200.00
	155	LABOUR		0.170	200.00	
	155 114		day			79.39
		LABOUR Mason (average)	day day	0.170	467.00	79.39 736.00
	114	LABOUR Mason (average) Beldar	day day day	0.170 2.000	467.00 368.00	79.39 736.00 366.30
	114 101	LABOUR Mason (average) Beldar Bhisti	day day day day	0.170 2.000 0.900	467.00 368.00 407.00	79.39 736.00 366.30 691.84
	114 101 115	LABOUR Mason (average) Beldar Bhisti Coolie	day day day day	0.170 2.000 0.900 1.880	467.00 368.00 407.00 368.00	200.00 79.39 736.00 366.30 691.84 24.50 22.49
	114 101 115 12	LABOUR Mason (average) Beldar Bhisti Coolie Vibrator (Needle type 40 mm	day day day day day	0.170 2.000 0.900 1.880 0.070	467.00 368.00 407.00 368.00 350.00	79.39 736.00 366.30 691.84 24.50 22.49
	114 101 115 12	LABOUR Mason (average) Beldar Bhisti Coolie Vibrator (Needle type 40 mm Sundries	day day day day day	0.170 2.000 0.900 1.880 0.070	467.00 368.00 407.00 368.00 350.00	79.39 736.00 366.30 691.84 24.50
	114 101 115 12	LABOUR Mason (average) Beldar Bhisti Coolie Vibrator (Needle type 40 mm Sundries Total	day day day day day	0.170 2.000 0.900 1.880 0.070	467.00 368.00 407.00 368.00 350.00	79.39 736.00 366.30 691.84 24.50 22.49 8520.79
	114 101 115 12	LABOUR Mason (average) Beldar Bhisti Coolie Vibrator (Needle type 40 mm Sundries Total Add water charges 1%	day day day day day	0.170 2.000 0.900 1.880 0.070	467.00 368.00 407.00 368.00 350.00	79.39 736.00 366.30 691.84 24.50 22.49 8520.79 8522.79

		deduct MR incl CP&OH				4561.21
		Total				5335.69
		Kochi (1.4608)		1.4608		7794.37
		add MR incl CP&OH				4561.21
		Total				12355.58
		SAY	Rs	12355.58	/m³	
	based on	Dry rubble masonry with hard			-	luding cost of
3	PWD OD 28	all materials, labour etc upto			•	-
		Details of cost for 1 cum				,
		MATERIAL:				
	1157	Stone for masonry work	cum	1.05	865.00	908.25
	1154	, Through and bond stone	100 nos	7.00	1260.00	88.20
		CARRIAGE				
		Carriage of soling &				
		masonry stone				
	2215	7.00x24.0x24.0x39 cm=0.16	cum	1.21	122.08	147.72
	2215	cum 1.05cum+0.16	cum	1.21	122.00	147.72
		cum=1.21 cum				
	125	LABOUR	Davi	1.07	449.00	479.36
		Mason (for plain stone work) Beldar	Day	_	448.00	
	114		Day	1.07	368.00	393.76
	115	Coolie	Day	0.71	368.00	261.28
	101	Bhisti	Day	0.09	407.00	36.63
	9999	Sundries	Ls	4.42	1.73	7.65
		Total				2322.84
		Add water charges 1%				23.23
		Total				2346.07
		Add CPOH 15%				351.91
		Total				2697.98
		including cost index		Total	1.4608	3941.21
		say Rs	3941.21			
	OBS DATA	Epoxy Coated Steel reinforc			-	
4	BASED ON	cutting, bending, placing in po	osition and	l binding all co	omplete upt	o plinth level.
	5.22.6					
		Details of cost for 1 quintal				
		MATERIAL:				
		Epoxy Coated Deformed				
		twisted steel bar = $1q$,				
		Wastage = 5%, Total Steel =				
		1.05q				
		Epoxy Coated Twisted steel	0+1	1 050		E77E 00
	MR	& Deformed Bars	Qtl	1.050	5500.00	5775.00
	2205	Carriage of Steel	Tonne	0.105	92.94	9.76
	9999	Cover Block	LS	26.000	1.73	44.98
	9999	Cover Block LABOUR	LS	26.000	1.73	44.98

	114	Beldar	dav	1.000	368.00	368.00	
	114	Bhisti	day	0.900	407.00	366.30	
	9999		day L.S.	26.910	407.00	46.55	
	9999	Sundries & Binding Wire Total	L.3.	20.910	1.75	7097.59	
		Add water charges 1%				7097.39	
		Total				7168.57	
		Add CPOH 15%				1075.29	
		Total				8243.85	
		deduct MR incl CP&OH				6641.25	
		Total				1602.60	
		Ernakulam (1.4608)				2341.08	
		add MR incl CP&OH				6641.25	
		Total				8982.33	
		Cost of 1Kg				89.82	
		SAY	Rs	89.82	/Κα	85.82	
		Providing and laying factory	-			ancrete naver	
		blocks medium traffic roads/p					
		shape, made by table vibrator	•	•	•	-	
				•		•	
	OBS DATA	& pattern over 40mm thick of	•				
5	BASED ON	brocken stones compacting				-	
	16.91	paver blocks into the sand k	-		•	• •	
		using plate vibrator, filling the joints with sand and cutting of pav					
			finiahing			المعمما معمما	
		per required size and pattern,	-	and sweeping		. complete all	
			-	and sweeping		. complete all	
		per required size and pattern, as per direction of Engineer-in	-	and sweeping		. complete all	
		per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm	-	and sweeping		. complete all	
		per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL:	-	and sweeping		. complete all	
		per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C.	-Charge.		g extra sand		
	MR	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm	-	and sweeping			
		per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick)	-Charge.	10.000	g extra sand	6000.00	
	983	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV)	-Charge. sqm Cum	10.000	extra sand 600.00 760.00	6000.00	
		per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV) Stone Aggregate (6mm)	-Charge.	10.000	g extra sand	6000.00	
	983 298	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV) Stone Aggregate (6mm) Carriage of Fine sand (1 part	-Charge. sqm Cum Cum	10.000 0.400 0.750	extra sand 600.00 760.00 1300.00	6000.00 <u>304.00</u> 975.00	
	983	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV) Stone Aggregate (6mm) Carriage of Fine sand (1 part badarpur sand : 2 parts	-Charge. sqm Cum	10.000	extra sand 600.00 760.00	6000.00 <u>304.00</u> 975.00	
	983 298	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV) Stone Aggregate (6mm) Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand)	-Charge. sqm Cum Cum	10.000 0.400 0.750	extra sand 600.00 760.00 1300.00	6000.00 <u>304.00</u> 975.00	
	983 298 2261	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV) Stone Aggregate (6mm) Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand) Carriage of stone aggregate	-Charge. sqm Cum Cum Cum	10.000 0.400 0.750 0.650	extra sand 600.00 760.00 1300.00 103.77	6000.00 <u>304.00</u> 975.00 67.45	
	983 298	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV) Stone Aggregate (6mm) Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand) Carriage of stone aggregate below 40mm	-Charge. sqm Cum Cum	10.000 0.400 0.750	extra sand 600.00 760.00 1300.00	6000.00 <u>304.00</u> 975.00 67.45	
	983 298 2261 2202	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV) Stone Aggregate (6mm) Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand) Carriage of stone aggregate below 40mm LABOUR	-Charge. sqm Cum Cum Cum	10.000 0.400 0.750 0.650 0.800	extra sand 600.00 760.00 1300.00 103.77 103.77	6000.00 <u>304.00</u> 975.00 67.45 83.02	
	983 298 2261 2202 123	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV) Stone Aggregate (6mm) Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand) Carriage of stone aggregate below 40mm LABOUR Mason (brick layer) 1st class	-Charge. sqm Cum Cum Cum Cum day	10.000 0.400 0.750 0.650 0.800 0.750	extra sand 600.00 760.00 1300.00 103.77 103.77 487.00	6000.00 304.00 975.00 67.45 83.02 365.25	
	983 298 2261 2202 123 124	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV) Stone Aggregate (6mm) Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand) Carriage of stone aggregate below 40mm LABOUR Mason (brick layer) 1st class Mason (brick layer) 2nd class	-Charge. sqm Cum Cum Cum Cum day day	10.000 0.400 0.750 0.650 0.800 0.750 0.750	extra sand 600.00 760.00 1300.00 103.77 103.77 487.00 448.00	6000.00 304.00 975.00 67.45 83.02 365.25 336.00	
	983 298 2261 2202 123 124 114	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV) Stone Aggregate (6mm) Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand) Carriage of stone aggregate below 40mm LABOUR Mason (brick layer) 1st class Mason (brick layer) 2nd class	-Charge. sqm Cum Cum Cum Cum day day day	10.000 0.400 0.750 0.650 0.800 0.750 0.750 1.200	extra sand 600.00 760.00 1300.00 103.77 103.77 487.00 448.00 368.00	6000.00 304.00 975.00 67.45 83.02 365.25 336.00 441.60	
	983 298 2261 2202 123 124 114 115	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV) Stone Aggregate (6mm) Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand) Carriage of stone aggregate below 40mm LABOUR Mason (brick layer) 1st class Mason (brick layer) 2nd class Beldar Coolie	-Charge. sqm Cum Cum Cum Cum day day day day day	10.000 0.400 0.750 0.650 0.800 0.750 0.750 1.200 0.750	extra sand 600.00 760.00 1300.00 103.77 103.77 103.77 487.00 448.00 368.00 368.00	6000.00 304.00 975.00 67.45 83.02 365.25 336.00 441.60 276.00	
	983 298 2261 2202 123 124 114	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV) Stone Aggregate (6mm) Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand) Carriage of stone aggregate below 40mm LABOUR Mason (brick layer) 1st class Mason (brick layer) 2nd class Beldar Coolie Sundries	-Charge. sqm Cum Cum Cum Cum day day day	10.000 0.400 0.750 0.650 0.800 0.750 0.750 1.200	extra sand 600.00 760.00 1300.00 103.77 103.77 487.00 448.00 368.00	6000.00 304.00 975.00 67.45 83.02 365.25 336.00 441.60 276.00 51.90	
	983 298 2261 2202 123 124 114 115	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV) Stone Aggregate (6mm) Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand) Carriage of stone aggregate below 40mm LABOUR Mason (brick layer) 1st class Mason (brick layer) 2nd class Beldar Coolie Sundries Total	-Charge. sqm Cum Cum Cum Cum day day day day day	10.000 0.400 0.750 0.650 0.800 0.750 0.750 1.200 0.750	extra sand 600.00 760.00 1300.00 103.77 103.77 103.77 487.00 448.00 368.00 368.00	6000.00 304.00 975.00 67.45 83.02 365.25 336.00 441.60 276.00 51.90 8900.22	
	983 298 2261 2202 123 124 114 115	per required size and pattern, as per direction of Engineer-in Details of cost for 10 sqm MATERIAL: Coloured inter locking C.C. paver Block (M40) (10cm thick) Fine Sand (Zone IV) Stone Aggregate (6mm) Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand) Carriage of stone aggregate below 40mm LABOUR Mason (brick layer) 1st class Mason (brick layer) 2nd class Beldar Coolie Sundries	-Charge. sqm Cum Cum Cum Cum day day day day day	10.000 0.400 0.750 0.650 0.800 0.750 0.750 1.200 0.750	extra sand 600.00 760.00 1300.00 103.77 103.77 103.77 487.00 448.00 368.00 368.00	6000.00	

		Add CPOH 15%				1348.38
		Total				10337.60
		deduct MR incl CP&OH				6900.00
		Total				3437.60
		Ernakulam (1.4608)				5021.65
		add MR incl CP&OH				6900.00
		Total				11921.65
		Cost of 1Kg				1192.16
		SAY	Rs	1192.16	/sam	
	OBS DATA	Supplying and fixing D.I. co	over with			450x600 mm
6	BASED ON	rectangular D.I. cover (heavy o				
· ·	19.18.3	not less than 108 kg		0		
		Details of cost for 1 Cover				
		MATERIAL:				
		Heavy Duty DI manhole		4 000		
	MR	Cover with Frame (450 x 600)	Nos	1.000	5500.00	5500.00
	9977	Carriage of DI cover	LS	13.470	1.73	23.30
		LABOUR				
	114	Beldar	day	0.120	368.00	44.16
	115	Coolie	day	0.120	368.00	44.16
		Total				5611.62
		Add water charges 1%				56.12
		Total				5667.74
		Add CPOH 15%				850.16
		Total				6517.90
		deduct MR incl CP&OH				6325.00
		Total				192.90
		Ernakulam (1.4608)				281.79
		add MR incl CP&OH				6325.00
		Total				6606.79
		Cost of 1 Manhole				6606.79
		SAY	Rs			
		Laterate masonry with neatly	•			
7	50.6.7.2	nearest size in cement morta		•	•	nth level up to
		floor two level including all co	st of mate	erials, labour o	charges etc	
		Details of Cost for : 1.00 Cum				
		MATERIAL:				
	MR 39	Laterite Stone 40x20x15cm	Nos	78.00	46.00	3588.00
	3.11	Cement mortar 1:6 (1	cum	0.0874	3217.5	281.21
	9999	Sundries		2.73	1.73	4.72
		LABOUR:				
	123	Mason 1st Class	Day	0.53	487.00	258.11
	124	Mason IInd Class	Day	0.53	448.00	237.44
	115	Coolie	Day	1.90	368.00	699.20
	101	Bhishti	Day	0.45	407.00	183.15

9999	Scaffolding	L.S.	22.36	1.73	38.6828
	Total				5290.52
	MR				3588.00
	Add Water Charges @ 1%				35.88
	TOTAL				3623.88
	Add CPOH @ 15%				543.58
	TOTAL	А			4167.46
	Total excluding (MR)				1702.52
	Add Water Charges @ 1%				17.03
	TOTAL				1719.54
	Add CPOH @ 15%				257.93
	TOTAL	В			1977.47
	Total including cost index	С	1.4608		2888.69
	Total (A+C)				7056.15
	Cost of 1 cum				7056.15
	say Rs	7056.15	/1m3		

We hereby certify that the rates provided in this estimate are the rates included in the DSR 2016 or the rate approved by the PWD. The cost index of Kochi is taken as 1.4608 as instructed by the PWD. Market rates for other materials which are not available in the DSR 2016 are directly taken from the local market including all its overhead costswhich are lowest and reasonable.

Engineer	AE/AEE	
RAM BIOLOGICALS	KWA, KOCHI	

		OBSERVED DATA	- ELECTRIC	CAL				
tem No:	Item Code	Description	Units	Quantity	Rate	Amount		
		Supplying and Laying of PVC i	nsulated a		ned / XLPE	ower cable o		
		Aluminium conductor XLPE p	ower cabl	es as per IS:7	098/Part-I/	88 with late		
	OBS BASED ON	ammendments 1.1 kv grad	of follow	wing size dir	ect in gro	und includir		
1	DSR (E&M) 7.1	excavation, sand cushioning, protective covering and refilling the trench etc. a						
	- ()	required in the specifications or as directed by the Engineer in Charge.						
		Details of Cost for : 100m						
		MATERIAL:						
	MR	3.5 x 400sq.mm cable	m	100.00	3243.00	324300.00		
	IVIIX	Common burnt clay F.P,S.		100.00	5245.00	524500.00		
		(non modular)						
	2945	bricks class designation 7.5	each	918.00	3.00	2754.00		
	2343	= 874 + 44 (Wastage@ 5%) =	Cacil	518.00	5.00	2754.00		
		918 Nos						
	2946	Fine Sand	cum	8.76	672	5886.72		
	2340	LABOUR:	cum	0.70	072	5000.72		
	1001	Wireman	Day	1.50	447.00	670.50		
	1007	Khallasi	Day	4.00	368.00	1472.00		
		Total	- 1			335083.22		
		MR				324300.00		
		Add Water Charges @ 1%				3243.00		
		TOTAL				327543.00		
		Add CPOH @ 15%				49131.45		
		TOTAL	А			376674.45		
		Total excluding (MR)				10783.22		
		Add Water Charges @ 1%				107.83		
		TOTAL				10891.05		
		Add CPOH @ 15%				1633.66		
		TOTAL	В			12524.71		
		Excavation including refilling	cum	26.26	318	8350.68		
		as required	<u> </u>					
		Total Total including cost index	С	1 4609		20875.39		
		Total (A+C)		1.4608		30494.77 407169.22		
		Cost of 1m				407169.22		
		say Rs	4071.69	/1m		4071.09		
		Supplying and Laying of PVC i		-	l hed / XI PF i	l nower cable		
		Aluminium conductor XLPE p						
		ammendments 1.1 kv grad		•				
2		excavation, sand cushioning,		-	-			
		required in the specifications						
						0		

		Details of Cost for : 100m				
		MATERIAL:				
	MR	3.5 x 300sq.mm cable	m	100.00	2550.00	255000.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	2946	Fine Sand	cum	8.76	672	5886.72
		LABOUR:				
	1001	Wireman	Day	1.50	447.00	670.50
	1007	Khallasi	Day	4.00	368.00	1472.00
		Total	7			265783.22
		MR				255000.00
		Add Water Charges @ 1%				2550.00
		TOTAL				257550.00
		Add CPOH @ 15%				38632.50
		TOTAL	A			296182.50
		Total excluding (MR)				10783.22
		Add Water Charges @ 1%				107.83
		TOTAL				107.85
		Add CPOH @ 15%				1633.66
		TOTAL	В			12524.71
		Excavation including refilling		26.26	318	8350.68
		Total	cum C	20.20	510	20875.39
		Total including cost index	C	1.4608		30494.77
		Total (A+C)		1.4008		326677.27
		Cost of 1m				
			2266 77	/1 m		3266.77
		say Rs	3266.77	/1m		
		say Rs Supplying and Laying of PVC	insulated a	nd PVC sheat	•	oower cable o
		say Rs Supplying and Laying of PVC Aluminium conductor XLPE p	insulated a bower cable	nd PVC sheatl es as per IS:7	7098/Part-I/	oower cable o 88 with lates
3		say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac	insulated a bower cable I of follov	nd PVC sheatl es as per IS:7 ving size dir	7098/Part-I/ ect in gro	oower cable o 88 with lates und includin
3		say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning,	insulated a bower cable I of follov protective	nd PVC sheatl es as per IS:7 ving size dir covering and	7098/Part-I/ ect in gro refilling the	oower cable o 88 with lates und includin trench etc. a
3		say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac	insulated a bower cable I of follov protective	nd PVC sheatl es as per IS:7 ving size dir covering and	7098/Part-I/ ect in gro refilling the	oower cable o 88 with lates und includin trench etc. a
3		say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications	insulated a bower cable I of follov protective	nd PVC sheatl es as per IS:7 ving size dir covering and	7098/Part-I/ ect in gro refilling the	oower cable o 88 with lates und includin trench etc. a
3		say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications Details of Cost for : 100m	insulated a bower cable I of follov protective	nd PVC sheatl es as per IS:7 ving size dir covering and	7098/Part-I/ ect in gro refilling the	oower cable o 88 with late: und includin trench etc. a
3	DSR (E&M) 7.1	say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL:	insulated a bower cable I of follov protective	nd PVC sheatl es as per IS:7 ving size dir covering and ed by the Eng	7098/Part-I/ ect in gro refilling the ineer in Cha	oower cable o 88 with late: und includin trench etc. a rge.
3	DSR (E&M) 7.1	say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable	insulated a power cable l of follow protective or as direct m	nd PVC sheatl es as per IS:7 ving size dir covering and ed by the Eng 100.00	7098/Part-I/ ect in gro refilling the ineer in Cha 2080.00	oower cable o 88 with lates und includin trench etc. a rge. 208000.00
3	DSR (E&M) 7.1	say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S.	insulated a power cable l of follov protective or as direct	nd PVC sheatl es as per IS:7 ving size dir covering and ed by the Eng 100.00 918.00	7098/Part-I/ ect in gro refilling the ineer in Cha 2080.00 3.00	oower cable o 88 with lates und includin trench etc. a rge. 208000.00 2754.00
3	DSR (E&M) 7.1	say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand	insulated a power cable l of follow protective or as direct m	nd PVC sheatl es as per IS:7 ving size dir covering and ed by the Eng 100.00	7098/Part-I/ ect in gro refilling the ineer in Cha 2080.00	oower cable o 88 with lates und includin trench etc. a rge. 208000.00
3	DSR (E&M) 7.1	say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S.	insulated a power cable l of follov protective or as direct m each	nd PVC sheatl es as per IS:7 ving size dir covering and ed by the Eng 100.00 918.00	7098/Part-I/ ect in gro refilling the ineer in Cha 2080.00 3.00	oower cable o 88 with late: und includin trench etc. a rge. 208000.00 2754.00
3	DSR (E&M) 7.1	say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand	insulated a power cable l of follov protective or as direct m each	nd PVC sheatl es as per IS:7 ving size dir covering and ed by the Eng 100.00 918.00	7098/Part-I/ ect in gro refilling the ineer in Cha 2080.00 3.00	oower cable o 88 with lates und includin trench etc. a rge. 208000.00 2754.00
3	DSR (E&M) 7.1	say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR:	m each cum	nd PVC sheatl es as per IS:7 ving size dir covering and ed by the Eng 100.00 918.00 8.76	7098/Part-I/ ect in gro refilling the ineer in Cha 2080.00 3.00 672	oower cable o 88 with lates und includin trench etc. a rge. 208000.00 2754.00 5886.72
3	DSR (E&M) 7.1	say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman	insulated a power cable of follov protective or as direct m each cum Day	nd PVC sheatl es as per IS:7 ving size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	7098/Part-I/ ect in gro refilling the ineer in Cha 2080.00 3.00 672 447.00	208000.00 2754.00 5886.72 670.50 1472.00
3	DSR (E&M) 7.1	say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi	insulated a power cable of follov protective or as direct m each cum Day	nd PVC sheatl es as per IS:7 ving size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	7098/Part-I/ ect in gro refilling the ineer in Cha 2080.00 3.00 672 447.00	208000.00 2754.00 5886.72 20870.00 2754.00 5886.72 670.50 1472.00 218783.22
3	DSR (E&M) 7.1	say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total	insulated a power cable of follov protective or as direct m each cum Day	nd PVC sheatl es as per IS:7 ving size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	7098/Part-I/ ect in gro refilling the ineer in Cha 2080.00 3.00 672 447.00	208000.00 2754.00 5886.72 20870.00 2754.00 5886.72 670.50 1472.00 218783.22
3	DSR (E&M) 7.1	say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR	insulated a power cable of follov protective or as direct m each cum Day	nd PVC sheatl es as per IS:7 ving size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	7098/Part-I/ ect in gro refilling the ineer in Cha 2080.00 3.00 672 447.00	208000.00 2754.00 5886.72 208000.00 2754.00 5886.72 670.50 1472.00 218783.22 208000.00 2080.00
3	DSR (E&M) 7.1	say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1%	insulated a power cable of follov protective or as direct m each cum Day	nd PVC sheatl es as per IS:7 ving size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	7098/Part-I/ ect in gro refilling the ineer in Cha 2080.00 3.00 672 447.00	208000.00 2754.00 5886.72 208000.00 2754.00 5886.72 670.50 1472.00 218783.22 208000.00
3	DSR (E&M) 7.1	say Rs Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL	insulated a power cable of follov protective or as direct m each cum Day	nd PVC sheatl es as per IS:7 ving size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	7098/Part-I/ ect in gro refilling the ineer in Cha 2080.00 3.00 672 447.00	oower cable c 88 with lates und includin trench etc. a rge. 208000.00 2754.00 5886.72 670.50 1472.00 218783.22 208000.00 2080.00 210080.00

		Add Water Charges @ 1%				107.83
		TOTAL				10891.05
		Add CPOH @ 15%				1633.66
		TOTAL	В			12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	C		010	20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				272086.77
		Cost of 1m				2720.87
		say Rs	2720.87	/1m		
4		Supplying and Laying of PVC i Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications	oower cable I of follov protective	es as per IS:7 ving size dir covering and	7098/Part-I/ ect in gro refilling the	88 with latest und including trench etc. as
		Details of Cost for : 100m				
		MATERIAL:				
	MR	3.5 x 185sq.mm cable	m	100.00	1650.00	165000.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	2946	Fine Sand	cum	8.76	672	5886.72
		LABOUR:				
	1001	Wireman	Day	1.50	447.00	670.50
	1007	Khallasi	Day	4.00	368.00	1472.00
		Total				175783.22
		MR				165000.00
		Add Water Charges @ 1%				1650.00
		TOTAL				166650.00
		Add CPOH @ 15%				24997.50
		TOTAL	А			191647.50
		Total excluding (MR)				10783.22
		Add Water Charges @ 1%				107.83
		TOTAL				10891.05
		Add CPOH @ 15%				1633.66
		TOTAL	В			12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	С			20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				222142.27
		Cost of 1m				2221.42
		say Rs	2221.42	/1m		

5		Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications	oower cable I of follow protective	es as per IS:7 ving size dir covering and	7098/Part-I/ ect in gro refilling the	88 with latest und including trench etc. as
		Details of Cost for : 100m				
		MATERIAL:				
	MR	3.5 x 150sq.mm cable	m	100.00	1326.00	132600.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	2946	Fine Sand	cum	8.76	672	5886.72
		LABOUR:				
	1001	Wireman	Day	1.50	447.00	670.50
	1007	Khallasi	Day	4.00	368.00	1472.00
		Total				143383.22
		MR				132600.00
		Add Water Charges @ 1%				1326.00
		TOTAL				133926.00
		Add CPOH @ 15%				20088.90
		TOTAL	А			154014.90
		Total excluding (MR)				10783.22
		Add Water Charges @ 1%				107.83
		TOTAL				10891.05
		Add CPOH @ 15%				1633.66
		TOTAL	В			12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	С			20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				184509.67
		Cost of 1m				1845.10
		say Rs	1845.10	/1m		
		Supplying and Laying of PVC		12	ned / XLPE g	ower cable of
		Aluminium conductor XLPE			•	
	OBS BASED ON	ammendments 1.1 kv grad		•		
6		excavation, sand cushioning,		-	-	-
		required in the specifications	•	-	-	
		Datails of Cast for : 100m				
		Details of Cost for : 100m MATERIAL:				
	MD		m	100.00	1110 00	111000.00
	MR 2045	3.5 x 120sq.mm cable	m	100.00	1118.00	111800.00
	2945	Common burnt clay F.P,S. Fine Sand	each	918.00	3.00	2754.00
	2946		cum	8.76	672	5886.72
	1001	LABOUR:	Davi	1 50	117.00	670 50
	1001	Wireman	Day	1.50	447.00	670.50
	1007	Khallasi Totol	Day	4.00	368.00	1472.00
		Total				122583.22

		MR				111800.00
		Add Water Charges @ 1%				111800.00
		TOTAL				112918.00
		Add CPOH @ 15%				16937.70
		TOTAL	Α			129855.70
			A			129855.70
		Total excluding (MR)				
		Add Water Charges @ 1%				107.83
						10891.05
		Add CPOH @ 15%				1633.66
		TOTAL	В	26.26	210	12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	С	4.4600		20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				160350.47
		Cost of 1m		10		1603.50
		say Rs		/1m		
7		Supplying and Laying of PVC i Aluminium conductor XLPE p ammendments 1.1 kv grad	oower cable I of follov	es as per IS: ving size dir	7098/Part-I/ ect in gro	'88 with latest und including
	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications				
		Details of Cost for : 100m		1		
		MATERIAL:				
	MR	3.5 x 95sq.mm cable	m	100.00	895.00	89500.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	2946	Fine Sand	cum	8.76	672	5886.72
		LABOUR:				
	1001	Wireman	Day	1.50	447.00	670.50
	1007	Khallasi	Day	4.00	368.00	1472.00
		Total				100283.22
		MR				89500.00
		Add Water Charges @ 1%				895.00
		TOTAL				90395.00
		Add CPOH @ 15%				13559.25
		TOTAL	А			103954.25
		Total excluding (MR)				10783.22
		Add Water Charges @ 1%				107.83
		TOTAL				10891.05
		Add CPOH @ 15%				1633.66
		TOTAL	В			12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	С			20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				134449.02
		Cost of 1m				1344.49

		say Rs	1344.49	/1m		
		Supplying and Laying of PVC	insulated a	nd PVC sheat	hed / XLPE r	ower cable of
		Aluminium conductor XLPE				
		ammendments 1.1 kv grad		•		
8		excavation, sand cushioning,		-	-	-
	DSR (EQIVI) 7.1		•	•	•	
		required in the specifications	or as direct	ted by the Eng	ineer in Cha	irge.
						1
		Details of Cost for : 100m		-	1	
		MATERIAL:				
	MR	3.5 x 70sq.mm cable	m	100.00	720.00	72000.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	2946	Fine Sand	cum	8.76	672	5886.72
		LABOUR:				
	1001	Wireman	Day	1.50	447.00	670.50
	1007	Khallasi	Day	4.00	368.00	1472.00
		Total				82783.22
		MR				72000.00
		Add Water Charges @ 1%				720.00
		TOTAL				72720.00
		Add CPOH @ 15%				10908.00
		TOTAL	А			83628.00
		Total excluding (MR)				10783.22
		Add Water Charges @ 1%				107.83
		TOTAL				10891.05
		Add CPOH @ 15%				1633.66
		TOTAL	В			12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	C			20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				114122.77
		Cost of 1m				1141.23
		say Rs	1141.23	/1m		1111.25
		Supplying and Laying of PVC			l hed / XI PF r	l nower cable of
		Aluminium conductor XLPE				
		ammendments 1.1 kv grad		•		
9		_		-	-	-
	DSR (E&IVI) 7.1	excavation, sand cushioning,	•	•	•	
		required in the specifications	or as direct	ted by the Eng	ineer in Cha	irge.
						I
		Details of Cost for : 100m	1		1	
		MATERIAL:				
	MR	4 x 50sq.mm cable	m	100.00	586.00	58600.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	2946	Fine Sand	cum	8.76	672	5886.72
		LABOUR:				
	1001	Wireman	Day	1.50	447.00	670.50
	1007	Khallasi	Day	4.00	368.00	1472.00

	Total				69383.22
	MR				58600.00
	Add Water Charges @ 1%				586.00
	TOTAL				59186.00
	Add CPOH @ 15%				8877.90
	TOTAL	А			68063.90
		A			10783.22
	Total excluding (MR)				
	Add Water Charges @ 1% TOTAL				107.83 10891.05
	Add CPOH @ 15%				1633.66
	TOTAL				
		B	26.26	210	12524.71
	Excavation including refilling	cum	26.26	318	8350.68
	Total	C	1.4600		20875.39
	Total including cost index		1.4608		30494.77
	Total (A+C)				98558.67
	Cost of 1m				985.59
 	say Rs Supplying and Laying of PVC i	985.59	/1m		
	required in the specifications	or as direct	ed by the Eng	ineer in Cha	rσο
			ed by the Eng		inge.
	Details of Cost for : 100m				
 MR	Details of Cost for : 100m		100.00	456.00	45600.00
 MR 2945	Details of Cost for : 100m MATERIAL:				
 	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable	m	100.00	456.00	45600.00
 2945	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S.	m each	100.00 918.00	456.00 3.00	45600.00 2754.00
 2945	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand	m each	100.00 918.00	456.00 3.00	45600.00 2754.00
 2945 2946	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR:	m each cum	100.00 918.00 8.76	456.00 3.00 672	45600.00 2754.00 5886.72
 2945 2946 1001	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman	m each cum Day	100.00 918.00 8.76 1.50	456.00 3.00 672 447.00	45600.00 2754.00 5886.72 670.50
 2945 2946 1001	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi	m each cum Day	100.00 918.00 8.76 1.50	456.00 3.00 672 447.00	45600.00 2754.00 5886.72 670.50 1472.00
2945 2946 1001	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total	m each cum Day	100.00 918.00 8.76 1.50	456.00 3.00 672 447.00	45600.00 2754.00 5886.72 670.50 1472.00 56383.22
2945 2946 1001	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR	m each cum Day	100.00 918.00 8.76 1.50	456.00 3.00 672 447.00	45600.00 2754.00 5886.72 670.50 1472.00 56383.22 45600.00
2945 2946 1001	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1%	m each cum Day	100.00 918.00 8.76 1.50	456.00 3.00 672 447.00	45600.00 2754.00 5886.72 670.50 1472.00 56383.22 45600.00 456.00
2945 2946 1001	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL	m each cum Day	100.00 918.00 8.76 1.50	456.00 3.00 672 447.00	45600.00 2754.00 5886.72 670.50 1472.00 56383.22 45600.00 456.00 46056.00
2945 2946 1001	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15%	m each cum Day Day	100.00 918.00 8.76 1.50	456.00 3.00 672 447.00	45600.00 2754.00 5886.72 670.50 1472.00 56383.22 45600.00 456.00 46056.00 6908.40
2945 2946 1001	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL	m each cum Day Day	100.00 918.00 8.76 1.50	456.00 3.00 672 447.00	45600.00 2754.00 5886.72 670.50 1472.00 56383.22 45600.00 456.00 46056.00 6908.40 52964.40
2945 2946 1001	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL TOTAL Total excluding (MR)	m each cum Day Day	100.00 918.00 8.76 1.50	456.00 3.00 672 447.00	45600.00 2754.00 5886.72 670.50 1472.00 56383.22 45600.00 456.00 46056.00 6908.40 52964.40 10783.22
2945 2946 1001	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1%	m each cum Day Day	100.00 918.00 8.76 1.50	456.00 3.00 672 447.00	45600.00 2754.00 5886.72 670.50 1472.00 56383.22 45600.00 456.00 46056.00 6908.40 52964.40 10783.22 107.83
2945 2946 1001	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1% TOTAL	m each cum Day Day	100.00 918.00 8.76 1.50	456.00 3.00 672 447.00	45600.00 2754.00 5886.72 670.50 1472.00 56383.22 45600.00 456.00 46056.00 6908.40 52964.40 10783.22 107.83 10891.05
2945 2946 1001	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1% TOTAL Total excluding (MR) Add Water Charges @ 1% TOTAL Add CPOH @ 15%	m each cum Day Day	100.00 918.00 8.76 1.50	456.00 3.00 672 447.00	45600.00 2754.00 5886.72 670.50 1472.00 56383.22 45600.00 456.00 46056.00 6908.40 52964.40 10783.22 107.83 10891.05 1633.66
2945 2946 1001	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1% TOTAL Total excluding (MR) Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Add CPOH @ 15% TOTAL	m each cum Day Day Day	100.00 918.00 8.76 1.50 4.00	456.00 3.00 672 447.00 368.00	45600.00 2754.00 5886.72 670.50 1472.00 56383.22 45600.00 456.00 46056.00 6908.40 52964.40 10783.22 107.83 10891.05 1633.66 12524.71
2945 2946 1001	Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1% TOTAL Total excluding (MR) Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Add CPOH @ 15% TOTAL Add CPOH @ 15%	m each cum Day Day Day	100.00 918.00 8.76 1.50 4.00	456.00 3.00 672 447.00 368.00	45600.00 2754.00 5886.72 670.50 1472.00 56383.22 45600.00 456.00 46056.00 6908.40 52964.40 10783.22 107.83 10891.05 1633.66 12524.71 8350.68

		Cost of 1m				834.59
		say Rs	834.59	/1m		
11		Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac	oower cabl	es as per IS:7 ving size dir	7098/Part-I/ ect in gro	88 with latest und including
	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications	•	-	-	
		Details of Cost for : 100m		•	1	
		MATERIAL:				
	MR	4 x 25sq.mm cable	m	100.00	359.00	35900.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	2946	Fine Sand	cum	8.76	672	5886.72
		LABOUR:				
	1001	Wireman	Day	1.50	447.00	670.50
	1007	Khallasi	Day	4.00	368.00	1472.00
		Total				46683.22
		MR				35900.00
		Add Water Charges @ 1%				359.00
		TOTAL				36259.00
		Add CPOH @ 15%				5438.85
		TOTAL	А			41697.85
		Total excluding (MR)				10783.22
		Add Water Charges @ 1%				107.83
		TOTAL				10891.05
		Add CPOH @ 15%				1633.66
		TOTAL	В			12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	С			20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				72192.62
		Cost of 1m				721.93
		say Rs	721.93	/1m		
		Supplying and Laying of PVC		-	hed / XLPE r	ower cable of
		Aluminium conductor XLPE p			•	
	OBS BASED ON	ammendments 1.1 kv grad				
12		excavation, sand cushioning,		-	-	-
		required in the specifications	•	-	-	
		Details of Cost for : 100m				
	1	MATERIAL:				
	MR	4 x 16sq.mm cable	m	100.00	271.00	27100.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
			cum	8.76	672	
	1001		Dav	1.50	447.00	670.50
	2946 1001	Fine Sand LABOUR: Wireman				5886.72 670.50

	1007	Khallasi	Day	4.00	368.00	1472.00
	1007	Total	Day	4.00	506.00	37883.22
		MR				27100.00
		Add Water Charges @ 1%				27100.00
		TOTAL				27371.00
		Add CPOH @ 15%				4105.65
		TOTAL	^			31476.65
			A			
		Total excluding (MR)				10783.22
		Add Water Charges @ 1% TOTAL				107.83 10891.05
		Add CPOH @ 15%	D			1633.66
		TOTAL	В	26.26	210	12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	С	1.1600		20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				61971.42
		Cost of 1m				619.71
		say Rs Supplying and Laying of PVC i	619.71	/1m		
13		ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications	protective	covering and	refilling the	trench etc. a
13		excavation, sand cushioning, required in the specifications	protective	covering and	refilling the	trench etc. a
13		excavation, sand cushioning,	protective	covering and	refilling the	trench etc. a
13		excavation, sand cushioning, required in the specifications Details of Cost for : 100m	protective	covering and	refilling the	trench etc. a
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable	protective of or as direct	covering and ed by the Eng	refilling the gineer in Cha	trench etc. a rge.
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL:	protective of or as direct	covering and ed by the Eng 100.00	refilling the gineer in Cha 2080.00	trench etc. a rge. 208000.00
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S.	protective of or as direct	covering and ed by the Eng 100.00 918.00	refilling the gineer in Cha 2080.00 3.00	trench etc. a rge. 208000.00 2754.00
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR:	protective of or as direct of m m each cum	covering and ed by the Eng 100.00 918.00 8.76	refilling the gineer in Cha 2080.00 3.00	trench etc. a rge. 208000.00 2754.00
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman	protective of or as direct m each cum Day	covering and ed by the Eng 100.00 918.00	refilling the gineer in Cha 2080.00 3.00 672 447.00	trench etc. a rge. 208000.00 2754.00 5886.72 670.50
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR:	protective of or as direct of m m each cum	covering and ed by the Eng 100.00 918.00 8.76 1.50	refilling the gineer in Cha 2080.00 3.00 672	trench etc. a rge. 208000.00 2754.00 5886.72
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi	protective of or as direct m each cum Day	covering and ed by the Eng 100.00 918.00 8.76 1.50	refilling the gineer in Cha 2080.00 3.00 672 447.00	trench etc. a rge. 208000.00 2754.00 5886.72 670.50 1472.00
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total	protective of or as direct m each cum Day	covering and ed by the Eng 100.00 918.00 8.76 1.50	refilling the gineer in Cha 2080.00 3.00 672 447.00	trench etc. a rge. 208000.00 2754.00 5886.72 670.50 1472.00 218783.22
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR	protective of or as direct m each cum Day	covering and ed by the Eng 100.00 918.00 8.76 1.50	refilling the gineer in Cha 2080.00 3.00 672 447.00	trench etc. a rge. 208000.00 2754.00 5886.72 670.50 1472.00 218783.22 208000.00
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1%	protective of or as direct m each cum Day	covering and ed by the Eng 100.00 918.00 8.76 1.50	refilling the gineer in Cha 2080.00 3.00 672 447.00	trench etc. a rge. 208000.00 2754.00 5886.72 670.50 1472.00 218783.22 208000.00 2080.00
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL	protective of or as direct m each cum Day	covering and ed by the Eng 100.00 918.00 8.76 1.50	refilling the gineer in Cha 2080.00 3.00 672 447.00	trench etc. a rge. 208000.00 2754.00 5886.72 670.50 1472.00 218783.22 208000.00 2080.00 210080.00
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15%	protective of or as direct of as direct of as direct of a struct o	covering and ed by the Eng 100.00 918.00 8.76 1.50	refilling the gineer in Cha 2080.00 3.00 672 447.00	trench etc. a rge. 208000.00 2754.00 5886.72 670.50 1472.00 218783.22 208000.00 2080.00 210080.00 31512.00
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL	protective of or as direct of as direct of as direct of a struct o	covering and ed by the Eng 100.00 918.00 8.76 1.50	refilling the gineer in Cha 2080.00 3.00 672 447.00	trench etc. a rge. 208000.00 2754.00 5886.72 670.50 1472.00 218783.22 208000.00 2080.00 210080.00 31512.00 241592.00
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR)	protective of or as direct of as direct of as direct of a struct o	covering and ed by the Eng 100.00 918.00 8.76 1.50	refilling the gineer in Cha 2080.00 3.00 672 447.00	trench etc. a rge. 208000.00 2754.00 5886.72 670.50 1472.00 218783.22 208000.00 2080.00 210080.00 31512.00 241592.00 10783.22
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1%	protective of or as direct of as direct of as direct of a struct o	covering and ed by the Eng 100.00 918.00 8.76 1.50	refilling the gineer in Cha 2080.00 3.00 672 447.00	trench etc. a rge. 208000.00 2754.00 5886.72 670.50 1472.00 218783.22 208000.00 2080.00 210080.00 210080.00 31512.00 241592.00 10783.22 107.83
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1% TOTAL	protective of or as direct of as direct of as direct of a struct o	covering and ed by the Eng 100.00 918.00 8.76 1.50	refilling the gineer in Cha 2080.00 3.00 672 447.00	trench etc. a rge. 208000.00 2754.00 5886.72 670.50 1472.00 218783.22 208000.00 2080.00 2080.00 210080.00 31512.00 241592.00 10783.22 107.83 10891.05
13	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Add Water Charges @ 1% TOTAL Total excluding (MR) Add Water Charges @ 1%	protective of or as direct of as direct of as direct of a struct o	covering and ed by the Eng 100.00 918.00 8.76 1.50	refilling the gineer in Cha 2080.00 3.00 672 447.00	trench etc. a rge. 208000.00 2754.00 5886.72 670.50 1472.00 218783.22 208000.00 210080.00 210080.00 31512.00 241592.00 10783.22 10783.22 107.83 10891.05 1633.66
	DSR (E&M) 7.1	excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 240sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Add CPOH @ 15%	protective of or as direct m each cum Day Day Day A A B	covering and ed by the Eng 100.00 918.00 8.76 1.50 4.00	refilling the gineer in Cha 2080.00 3.00 672 447.00 368.00	trench etc. a rge. 208000.00 2754.00 5886.72 670.50 1472.00 218783.22 208000.00 210080.00 210080.00 210080.00 31512.00 241592.00 10783.22 10783.22 107.83 10891.05 1633.66 12524.71

		Total (A+C)				272086.77
		Cost of 1m				2720.87
		say Rs	2720.87	/1m		
14		Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications	oower cabl I of follov protective	es as per IS: wing size din covering and	7098/Part-I/ rect in gro refilling the	88 with lates und including trench etc. as
		Details of Cost for : 100m				
		MATERIAL:				
	MR	4 x 10sq.mm cable	m	100.00	239.00	23900.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	2946	Fine Sand	cum	8.76	672	5886.72
		LABOUR:	00.111			
	1001	Wireman	Day	1.50	447.00	670.50
	1007	Khallasi	Day	4.00	368.00	1472.00
		Total	- ~1			34683.22
		MR				23900.00
		Add Water Charges @ 1%				239.00
		TOTAL				24139.00
		Add CPOH @ 15%				3620.85
		TOTAL	А			27759.85
		Total excluding (MR)				10783.22
		Add Water Charges @ 1%				107.83
		TOTAL				10891.05
		Add CPOH @ 15%				1633.66
		TOTAL	В			12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	С			20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				58254.62
		Cost of 1m				582.55
		say Rs	582.55	/1m		
15		Supplying and Laying of PVC Aluminium conductor XLPE p ammendments 1.1 kv grac excavation, sand cushioning, required in the specifications	oower cabl I of follov protective	es as per IS: wing size din covering and	7098/Part-I/ rect in gro refilling the	88 with lates und includin trench etc. a
		Details of Cost for : 100m MATERIAL:				
	MR	4 x 6sq.mm cable	m	100.00	189.00	18900.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	2946	Fine Sand	cum	8.76	672	5886.72

	1001	Wireman	Day	1.50	447.00	670.50
	1007	Khallasi	Day	4.00	368.00	1472.00
	1007	Total	247			29683.22
		MR				18900.00
		Add Water Charges @ 1%				189.00
		TOTAL				19089.00
		Add CPOH @ 15%				2863.35
		TOTAL	А			21952.35
		Total excluding (MR)				10783.22
		Add Water Charges @ 1%				107.83
		TOTAL				10891.05
		Add CPOH @ 15%				1633.66
		TOTAL	В			12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	C			20875.39
		Total including cost index	-	1.4608		30494.77
		Total (A+C)				52447.12
		Cost of 1m				524.47
		say Rs	524.47	/1m		
		Aluminium conductor XLPE p		•		
16		Aluminium conductor XLPE p ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications	l of follov protective	wing size dir covering and	ect in gro refilling the	und including trench etc. as
16		ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications	l of follov protective	wing size dir covering and	ect in gro refilling the	und including trench etc. as
16		ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m	l of follov protective	wing size dir covering and	ect in gro refilling the	und including trench etc. as
16	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL:	l of follov protective	wing size dir covering and ted by the Eng	ect in gro refilling the ineer in Cha	und including trench etc. as rge.
16	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable	l of follow protective or as direct m	wing size dir covering and ted by the Eng 100.00	ect in gro refilling the	und including trench etc. a: rge. 16400.00
16	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S.	l of follow protective or as direct	wing size dir covering and ted by the Eng	rect in gro refilling the ineer in Cha 164.00	und including trench etc. as rge.
16	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable	of follow protective or as direct m each	wing size dir covering and ted by the Eng 100.00 918.00	rect in gro refilling the ineer in Cha 164.00 3.00	und including trench etc. a rge. 16400.00 2754.00
16	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR:	of follow protective or as direct m each cum	wing size dir covering and ted by the Eng 100.00 918.00	rect in gro refilling the ineer in Cha 164.00 3.00 672	und including trench etc. as rge. 16400.00 2754.00
16	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S. Fine Sand	of follow protective or as direct m each cum Day	ving size dir covering and ted by the Eng 100.00 918.00 8.76	rect in gro refilling the ineer in Cha 164.00 3.00 672 447.00	und including trench etc. as rge. 16400.00 2754.00 5886.72 670.50
16	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman	of follow protective or as direct m each cum	ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	rect in gro refilling the ineer in Cha 164.00 3.00 672	und including trench etc. as rge. 16400.00 2754.00 5886.72
16	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi	of follow protective or as direct m each cum Day	ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	rect in gro refilling the ineer in Cha 164.00 3.00 672 447.00	und including trench etc. as rge. 16400.00 2754.00 5886.72 670.50 1472.00
16	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total	of follow protective or as direct m each cum Day	ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	rect in gro refilling the ineer in Cha 164.00 3.00 672 447.00	und including trench etc. a: rge. 16400.00 2754.00 5886.72 670.50 1472.00 27183.22
16	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR	of follow protective or as direct m each cum Day	ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	rect in gro refilling the ineer in Cha 164.00 3.00 672 447.00	und including trench etc. as rge. 16400.00 2754.00 5886.72 670.50 1472.00 27183.22 16400.00
16	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1%	of follow protective or as direct m each cum Day	ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	rect in gro refilling the ineer in Cha 164.00 3.00 672 447.00	und including trench etc. as rge. 16400.00 2754.00 5886.72 670.50 1472.00 27183.22 16400.00 164.00
16	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL	of follow protective or as direct m each cum Day	ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	rect in gro refilling the ineer in Cha 164.00 3.00 672 447.00	und including trench etc. a: rge. 16400.00 2754.00 5886.72 670.50 1472.00 27183.22 16400.00 16564.00
	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15%	of follow protective or as direct m each cum Day Day	ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	rect in gro refilling the ineer in Cha 164.00 3.00 672 447.00	und including trench etc. as rge. 16400.00 2754.00 5886.72 670.50 1472.00 27183.22 16400.00 16564.00 2484.60
	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL	of follow protective or as direct m each cum Day Day	ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	rect in gro refilling the ineer in Cha 164.00 3.00 672 447.00	und including trench etc. as rge. 16400.00 2754.00 5886.72 670.50 1472.00 27183.22 16400.00 164.00 16564.00 2484.60 19048.60
	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR)	of follow protective or as direct m each cum Day Day	ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	rect in gro refilling the ineer in Cha 164.00 3.00 672 447.00	und including trench etc. a: rge. 16400.00 2754.00 5886.72 670.50 1472.00 27183.22 16400.00 16564.00 2484.60 19048.60 10783.22
	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1%	of follow protective or as direct m each cum Day Day	ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	rect in gro refilling the ineer in Cha 164.00 3.00 672 447.00	und including trench etc. as rge. 16400.00 2754.00 5886.72 670.50 1472.00 27183.22 16400.00 16564.00 2484.60 19048.60 10783.22 107.83
	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1% TOTAL	of follow protective or as direct m each cum Day Day	ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	rect in gro refilling the ineer in Cha 164.00 3.00 672 447.00	und including trench etc. as rge. 16400.00 2754.00 5886.72 670.50 1472.00 27183.22 16400.00 164.00 16564.00 2484.60 19048.60 10783.22 107.83 10891.05
	DSR (E&M) 7.1	ammendments 1.1 kv grad excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 4sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Add Water Charges @ 1% TOTAL Add Water Charges @ 1% TOTAL Total excluding (MR) Add Water Charges @ 1%	I of follow protective or as direct m each cum Day Day Day	ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	rect in gro refilling the ineer in Cha 164.00 3.00 672 447.00	und including trench etc. as rge. 16400.00 2754.00 5886.72 670.50 1472.00 27183.22 16400.00 16564.00 2484.60 19048.60 10783.22 107.83 10891.05 1633.66

		Total including cost index		1.4608		30494.77
		Total (A+C)				49543.37
		Cost of 1m				495.43
		say Rs	495.43	/1m		
17		Supplying and Laying of PVC Copper conductor XLPE cor amendments 1.1 kv grade excavation, sand cushioning, required in the specifications	ntrol cables of follow protective	s as per is:7 ving size dir covering and	098/Part-I/8 ect in grou refilling the	8 with late und includi trench etc.
		Details of Cost for : 100m				
		MATERIAL:				
	MR	4 x 4sq.mm cable	m	100.00	353.00	35300.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	2946	Fine Sand	cum	8.76	672	5886.72
		LABOUR:				
	1001	Wireman	Day	1.50	447.00	670.50
	1007	Khallasi	Day	4.00	368.00	1472.00
		Total	/			46083.22
		MR				35300.00
		Add Water Charges @ 1%				353.00
		TOTAL				35653.00
		Add CPOH @ 15%				5347.95
		TOTAL	А			41000.95
		Total excluding (MR)				10783.22
		Add Water Charges @ 1%				107.83
		TOTAL				10891.05
		Add CPOH @ 15%				1633.66
		TOTAL	В			12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	С			20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				71495.72
		Cost of 1m				714.96
		say Rs	714.96	/1m		
18		Supplying and Laying of PVC Copper conductor XLPE cor amendments 1.1 kv grade excavation, sand cushioning, required in the specifications	ntrol cables of follow protective	s as per is:7 ving size dir covering and	098/Part-I/8 ect in grou refilling the	8 with late und includi trench etc.
		Details of Cost for : 100m			-	
		MATERIAL:				
	MR	4 x 6sq.mm cable	m	100.00	508.00	50800.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	2946	Fine Sand	cum	8.76	672	5886.72

		LABOUR:				
	1001	Wireman	Day	1.50	447.00	670.50
	1001	Khallasi	Day	4.00	368.00	1472.00
	1007	Total	Day			61583.22
		MR				50800.00
		Add Water Charges @ 1%				508.00
		TOTAL				51308.00
		Add CPOH @ 15%				7696.20
		TOTAL	A			59004.20
		Total excluding (MR)				10783.22
		Add Water Charges @ 1%				107.83
		TOTAL				10891.05
		Add CPOH @ 15%				1633.66
		TOTAL	В			12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	C	20.20	510	20875.39
		Total including cost index	C	1.4608		30494.77
		· · · · ·		1.4008		
		Total (A+C)				89498.97
		Cost of 1m	004.00	/1m		894.99
		say Rs	894.99	,		
19		Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications	ntrol cables of follow protective	s as per is:7 ving size dir covering and	098/Part-I/8 ect in gro refilling the	38 with lates und includin trench etc. a
19		Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications	ntrol cables of follow protective	s as per is:7 ving size dir covering and	098/Part-I/8 ect in gro refilling the	38 with late und includir trench etc. a
19		Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m	ntrol cables of follow protective	s as per is:7 ving size dir covering and	098/Part-I/8 ect in gro refilling the	38 with late und includir trench etc. a
19	DSR (E&M) 7.1	Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL:	ntrol cables of follow protective or as direct	s as per is:7 ving size dir covering and ted by the Eng	2098/Part-I/8 rect in groo refilling the gineer in Cha	38 with late und includir trench etc. a Irge.
19	DSR (E&M) 7.1	Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable	ntrol cables of follow protective or as direct m	s as per is:7 ving size dir covering and ed by the Eng 100.00	2098/Part-I/8 ect in grou refilling the gineer in Cha 815.00	88 with late und includir trench etc. a rge. 81500.00
19	DSR (E&M) 7.1	Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S.	ntrol cables of follow protective or as direct m each	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00	88 with late und includir trench etc. a rrge. 81500.00 2754.00
19	DSR (E&M) 7.1	Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand	ntrol cables of follow protective or as direct m	s as per is:7 ving size dir covering and ed by the Eng 100.00	2098/Part-I/8 ect in grou refilling the gineer in Cha 815.00	88 with late und includir trench etc. a rge. 81500.00
19	DSR (E&M) 7.1	Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR:	ntrol cables of follow protective or as direct m each cum	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00 8.76	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00 672	88 with late und includir trench etc. a rrge. 81500.00 2754.00 5886.72
19	DSR (E&M) 7.1	Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman	ntrol cables of follow protective or as direct m each cum Day	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00 672 447.00	88 with late und includir trench etc. a rrge. 81500.00 2754.00 5886.72 670.50
19	DSR (E&M) 7.1	Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi	ntrol cables of follow protective or as direct m each cum	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00 8.76	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00 672	 38 with late und includir trench etc. a rrge. 81500.00 2754.00 5886.72 670.50 1472.00
19	DSR (E&M) 7.1	Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total	ntrol cables of follow protective or as direct m each cum Day	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00 672 447.00	38 with late und includir trench etc. a irge. 81500.00 2754.00 5886.72 670.50 1472.00 92283.22
19	DSR (E&M) 7.1	Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR	ntrol cables of follow protective or as direct m each cum Day	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00 672 447.00	 38 with late und includir trench etc. a rrge. 81500.00 2754.00 5886.72 670.50 1472.00 92283.22 81500.00
19	DSR (E&M) 7.1	Copper conductor XLPE com amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1%	ntrol cables of follow protective or as direct m each cum Day	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00 672 447.00	 38 with late und includir trench etc. a rrge. 81500.00 2754.00 5886.72 670.50 1472.00 92283.22 81500.00 815.00
19	DSR (E&M) 7.1	Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL	ntrol cables of follow protective or as direct m each cum Day	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00 672 447.00	38 with late und includir trench etc. a irge. 81500.00 2754.00 5886.72 670.50 1472.00 92283.22 81500.00 815.00 815.00
19	DSR (E&M) 7.1	Copper conductor XLPE com amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15%	ntrol cables of follow protective or as direct m each cum Day Day	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00 672 447.00	38 with late und includir trench etc. a irrge. 81500.00 2754.00 5886.72 670.50 1472.00 92283.22 81500.00 815.00 815.00 82315.00 12347.25
19	DSR (E&M) 7.1	Copper conductor XLPE com amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL	ntrol cables of follow protective or as direct m each cum Day	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00 672 447.00	 38 with late und includir trench etc. a rrge. 81500.00 2754.00 5886.72 670.50 1472.00 92283.22 81500.00 815.00 82315.00 12347.25 94662.25
19	DSR (E&M) 7.1	Copper conductor XLPE com amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR)	ntrol cables of follow protective or as direct m each cum Day Day	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00 672 447.00	38 with late und includir trench etc. a irge. 81500.00 2754.00 5886.72 670.50 1472.00 92283.22 81500.00 815.00 815.00 82315.00 12347.25 94662.25 10783.22
19	DSR (E&M) 7.1	Copper conductor XLPE com amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1%	ntrol cables of follow protective or as direct m each cum Day Day	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00 672 447.00	38 with late und includir trench etc. a irrge. 81500.00 2754.00 5886.72 670.50 1472.00 92283.22 81500.00 815.00 82315.00 12347.25 94662.25 10783.22 107.83
19	DSR (E&M) 7.1	Copper conductor XLPE com amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1% TOTAL	ntrol cables of follow protective or as direct m each cum Day Day	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00 672 447.00	38 with late und includir trench etc. a irrge. 81500.00 2754.00 5886.72 670.50 1472.00 92283.22 81500.00 815.00 82315.00 12347.25 94662.25 107.83 10891.05
19	DSR (E&M) 7.1	Copper conductor XLPE com amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1% TOTAL Total excluding (MR) Add Water Charges @ 1%	ntrol cables of follow protective or as direct m each cum Day Day Day	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00 672 447.00	88 with late und includir trench etc. a rrge. 81500.00 2754.00 5886.72 670.50 1472.00 92283.22 81500.00 815.00 82315.00 12347.25 94662.25 10783.22 107.83 10891.05 1633.66
19	DSR (E&M) 7.1	Copper conductor XLPE com amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 10sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1% TOTAL	ntrol cables of follow protective or as direct m each cum Day Day	s as per is:7 ving size dir covering and ted by the Eng 100.00 918.00 8.76 1.50	2098/Part-I/8 rect in grou refilling the gineer in Cha 815.00 3.00 672 447.00	38 with late und includir trench etc. a irrge. 81500.00 2754.00 5886.72 670.50 1472.00 92283.22 81500.00 815.00 82315.00 12347.25 94662.25 107.83 10891.05

		Total	C			20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				125157.02
		Cost of 1m				1251.57
		say Rs	1251.57	/1m		
20		Supplying and Laying of PVC Copper conductor XLPE cor amendments 1.1 kv grade excavation, sand cushioning, required in the specifications	ntrol cables of follow protective	s as per is:7 ving size dir covering and	098/Part-I/8 ect in grou refilling the	88 with lates und including trench etc. as
		Details of Cost for : 100m		1	1	
		MATERIAL:				
	MR	4 x 16sq.mm cable	m	100.00	1213.00	121300.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	2946	Fine Sand	cum	8.76	672	5886.72
		LABOUR:				
	1001	Wireman	Day	1.50	447.00	670.50
	1007	Khallasi	Day	4.00	368.00	1472.00
		Total				132083.22
		MR				121300.00
		Add Water Charges @ 1%				1213.00
		TOTAL				122513.00
		Add CPOH @ 15%				18376.95
		TOTAL	А			140889.95
		Total excluding (MR)				10783.22
		Add Water Charges @ 1%				107.83
		TOTAL				10891.05
		Add CPOH @ 15%				1633.66
		TOTAL	В			12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	С			20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				171384.72
		Cost of 1m				1713.85
		say Rs	1713.85	/1m		
21		Supplying and Laying of PVC Copper conductor XLPE cor amendments 1.1 kv grade excavation, sand cushioning, required in the specifications	ntrol cables of follow protective	s as per is:7 ving size dir covering and	098/Part-I/8 ect in grou refilling the	88 with lates und including trench etc. a:
		Details of Cost for : 100m				
		MATERIAL:				
	MR	4 x 25sq.mm cable	m	100.00	1882.00	188200.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00

	2046			0.70	670	5006 70
	2946	Fine Sand	cum	8.76	672	5886.72
		LABOUR:				
	1001	Wireman	Day	1.50	447.00	670.50
	1007	Khallasi	Day	4.00	368.00	1472.00
		Total				198983.22
		MR				188200.00
		Add Water Charges @ 1%				1882.00
		TOTAL				190082.00
		Add CPOH @ 15%				28512.30
		TOTAL	А			218594.30
		Total excluding (MR)				10783.22
		Add Water Charges @ 1%				107.83
		TOTAL				10891.05
		Add CPOH @ 15%				1633.66
		TOTAL	В			12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	С			20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				249089.07
		Cost of 1m				2490.89
			2490.89	/1m		
22		say Rs Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning,	insulated an itrol cables of follow	nd PVC sheat as per is:7 ving size dir	098/Part-I/8 ect in grou	88 with lates und includin
22		Supplying and Laying of PVC Copper conductor XLPE con amendments 1.1 kv grade	insulated an atrol cables of follow protective	nd PVC sheat as per is:7 ring size dir covering and	098/Part-I/8 ect in grou refilling the	8 with late und includir trench etc. a
22		Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications	insulated an atrol cables of follow protective	nd PVC sheat as per is:7 ring size dir covering and	098/Part-I/8 ect in grou refilling the	8 with late und includir trench etc. a
22		Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m	insulated an atrol cables of follow protective	nd PVC sheat as per is:7 ring size dir covering and	098/Part-I/8 ect in grou refilling the	8 with late and includir trench etc. a
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL:	insulated a otrol cables of follow protective or as direct	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng	098/Part-I/8 ect in grou refilling the gineer in Cha	8 with late und includir trench etc. a rge.
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable	insulated an otrol cables of follow protective or as direct m	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00	8 with late und includir trench etc. a rge. 260800.00
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S.	insulated a of cables of follow protective or as direct m each	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00 918.00	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00 3.00	8 with late und includir trench etc. a rge. 260800.00 2754.00
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand	insulated an otrol cables of follow protective or as direct m	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00	8 with late und includir trench etc. a rge. 260800.00
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR:	insulated an otrol cables of follow protective or as direct m each cum	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00 918.00 8.76	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00 3.00 672	8 with late und includir trench etc. a rge. 260800.00 2754.00 5886.72
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman	insulated an otrol cables of follow protective or as direct m each cum Day	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00 3.00 672 447.00	8 with late und includir trench etc. a rge. 260800.00 2754.00 5886.72 670.50
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi	insulated an otrol cables of follow protective or as direct m each cum	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00 918.00 8.76	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00 3.00 672	8 with late und includir trench etc. a rge. 260800.00 2754.00 5886.72 670.50 1472.00
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total	insulated an otrol cables of follow protective or as direct m each cum Day	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00 3.00 672 447.00	8 with late und includir trench etc. a rge. 260800.00 2754.00 5886.72 670.50 1472.00 271583.22
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR	insulated an otrol cables of follow protective or as direct m each cum Day	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00 3.00 672 447.00	8 with late und includir trench etc. a rge. 260800.00 2754.00 5886.72 670.50 1472.00 271583.22 260800.00
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1%	insulated an otrol cables of follow protective or as direct m each cum Day	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00 3.00 672 447.00	8 with late und includir trench etc. a rge. 260800.00 2754.00 5886.72 670.50 1472.00 271583.22 260800.00 2608.00
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL	insulated an otrol cables of follow protective or as direct m each cum Day	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00 3.00 672 447.00	8 with late and includir trench etc. a rge. 260800.00 2754.00 5886.72 670.50 1472.00 271583.22 260800.00 2608.00 263408.00
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15%	insulated an otrol cables of follow protective or as direct m each cum Day Day	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00 3.00 672 447.00	8 with late and includir trench etc. a rge. 260800.00 2754.00 5886.72 670.50 1472.00 271583.22 260800.00 2608.00 263408.00 39511.20
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL	insulated an otrol cables of follow protective or as direct m each cum Day	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00 3.00 672 447.00	8 with late and includir trench etc. a rge. 260800.00 2754.00 5886.72 670.50 1472.00 271583.22 260800.00 2608.00 263408.00 39511.20 302919.20
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR)	insulated an otrol cables of follow protective or as direct m each cum Day Day	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00 3.00 672 447.00	8 with late and includir trench etc. a rge. 260800.00 2754.00 5886.72 670.50 1472.00 271583.22 260800.00 2608.00 263408.00 39511.20 302919.20 10783.22
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1%	insulated an otrol cables of follow protective or as direct m each cum Day Day	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00 3.00 672 447.00	8 with late and includir trench etc. a rge. 260800.00 2754.00 5886.72 670.50 1472.00 271583.22 260800.00 263408.00 263408.00 39511.20 302919.20 10783.22 107.83
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1% TOTAL	insulated an otrol cables of follow protective or as direct m each cum Day Day	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00 3.00 672 447.00	8 with late und includir trench etc. a rge. 260800.00 2754.00 2754.00 2754.00 275886.72 670.50 1472.00 271583.22 260800.00 2608.00 263408.00 39511.20 302919.20 10783.22 107.83 10891.05
22	DSR (E&M) 7.1	Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 4 x 35sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR) Add Water Charges @ 1%	insulated an otrol cables of follow protective or as direct m each cum Day Day	nd PVC sheat as per is:7 ring size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the gineer in Cha 2608.00 3.00 672 447.00	8 with late and includir trench etc. a rge. 260800.00 2754.00 5886.72 670.50 1472.00 271583.22 260800.00 263408.00 263408.00 39511.20 302919.20 10783.22 107.83

		Excavation including refilling	cum	26.26	318	8350.68
		Total	С			20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				333413.97
		Cost of 1m				3334.14
		say Rs	3334.14	/1m		
23		Supplying and Laying of PVC Copper conductor XLPE cor amendments 1.1 kv grade excavation, sand cushioning, required in the specifications	ntrol cables of follow protective	s as per is:7 ving size dir covering and	098/Part-I/8 ect in gro refilling the	38 with lates und including trench etc. a:
		Details of Cost for : 100m	1	T	T	
		MATERIAL:				
	MR	4 x 50sq.mm cable	m	100.00	3580.00	358000.00
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	2946	Fine Sand	cum	8.76	672	5886.72
		LABOUR:				
	1001	Wireman	Day	1.50	447.00	670.50
	1007	Khallasi	Day	4.00	368.00	1472.00
		Total				368783.22
		MR				358000.00
		Add Water Charges @ 1%				3580.00
		TOTAL				361580.00
		Add CPOH @ 15%				54237.00
		TOTAL	А			415817.00
		Total excluding (MR)				10783.22
		Add Water Charges @ 1%				107.83
		TOTAL				10891.05
		Add CPOH @ 15%				1633.66
		TOTAL	В			12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	С			20875.39
		Total including cost index		1.4608		30494.77
		Total (A+C)				446311.77
		Cost of 1m				4463.12
		say Rs	4463.12	/1m		
		Supplying and Laying of PVC		-	hed / XLPF r	power cable o
24		Copper conductor XLPE cor amendments 1.1 kv grade excavation, sand cushioning, required in the specifications	ntrol cables of follow protective	s as per is:7 ving size dir covering and	098/Part-I/8 ect in gro refilling the	38 with lates und including trench etc. a
		Details of Cost for : 100m				
	NAD	ATERIAL:		100.00	1053.00	495200.00
	MR	3.5 x 70sq.mm cable	m	100.00	4852.00	485200.00

	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	2943	Fine Sand		8.76	672	5886.72
	2940	LABOUR:	cum	0.70	072	5000.72
	1001	Wireman	Dav	1.50	447.00	670.50
	1001	Khallasi	Day	4.00	368.00	1472.00
	1007	Total	Day	4.00	506.00	495983.22
		MR				
						485200.00 4852.00
		Add Water Charges @ 1% TOTAL				4852.00
		Add CPOH @ 15%				73507.80
		TOTAL	Α			563559.80
			A			10783.22
		Total excluding (MR)				10785.22
		Add Water Charges @ 1% TOTAL				107.85
		Add CPOH @ 15% TOTAL				1633.66
		-	В	26.26	210	12524.71
		Excavation including refilling	cum	26.26	318	8350.68
		Total	С	1 4600		20875.39
		Total including cost index		1.4608		30494.77
						594054.57
		Total (A+C)				
		Cost of 1m		14		5940.55
25		Cost of 1m say Rs Supplying and Laying of PVC Copper conductor XLPE con amendments 1.1 kv grade	insulated an itrol cables of follow	as per is:7 ing size dir	098/Part-I/8 ect in gro	oower cable of 38 with latest und including
25		Cost of 1m say Rs Supplying and Laying of PVC Copper conductor XLPE con	insulated an atrol cables of follow protective	nd PVC sheat as per is:7 ing size dir covering and	098/Part-I/8 ect in gro refilling the	oower cable of 88 with latest und including trench etc. as
25		Cost of 1m say Rs Supplying and Laying of PVC Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning,	insulated an atrol cables of follow protective	nd PVC sheat as per is:7 ing size dir covering and	098/Part-I/8 ect in gro refilling the	oower cable of 88 with latest und including trench etc. as
25		Cost of 1m say Rs Supplying and Laying of PVC Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications	insulated an atrol cables of follow protective	nd PVC sheat as per is:7 ing size dir covering and	098/Part-I/8 ect in gro refilling the	oower cable of 38 with latest und including trench etc. as
25		Cost of 1m say Rs Supplying and Laying of PVC Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m	insulated an atrol cables of follow protective	nd PVC sheat as per is:7 ing size dir covering and	098/Part-I/8 ect in gro refilling the	oower cable o 38 with lates und including trench etc. as
25	DSR (E&M) 7.1	Cost of 1m say Rs Supplying and Laying of PVC Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 120sq.mm cable	insulated an otrol cables of follow protective or as direct	nd PVC sheat as per is:7 ing size dir covering and ed by the Eng	098/Part-I/8 ect in gro refilling the ineer in Cha	oower cable o 38 with lates und including trench etc. as irge.
25	DSR (E&M) 7.1	Cost of 1m say Rs Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL:	insulated an otrol cables of follow protective or as direct m	nd PVC sheat as per is:7 ing size dir covering and ed by the Eng 100.00	098/Part-I/8 ect in grou refilling the ineer in Cha 8952.00	oower cable o 38 with lates und including trench etc. as rge. 895200.00
25	DSR (E&M) 7.1	Cost of 1m say Rs Supplying and Laying of PVC Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 120sq.mm cable Common burnt clay F.P,S.	insulated an otrol cables of follow protective or as direct m each	nd PVC sheat as per is:7 ing size dir covering and ed by the Eng 100.00 918.00	098/Part-I/8 ect in grou refilling the ineer in Cha 8952.00 3.00	oower cable of 88 with latest und including trench etc. as rrge. 895200.00 2754.00
25	DSR (E&M) 7.1	Cost of 1m say Rs Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 120sq.mm cable Common burnt clay F.P,S. Fine Sand	insulated an otrol cables of follow protective or as direct m each	nd PVC sheat as per is:7 ing size dir covering and ed by the Eng 100.00 918.00	098/Part-I/8 ect in grou refilling the ineer in Cha 8952.00 3.00	oower cable of 88 with latest und including trench etc. as rrge. 895200.00 2754.00
25	DSR (E&M) 7.1	Cost of 1m say Rs Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 120sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR:	insulated an otrol cables of follow protective or as direct m each cum	nd PVC sheat as per is:7 ing size dir covering and ed by the Eng 100.00 918.00 8.76	098/Part-I/8 ect in grou refilling the ineer in Cha 8952.00 3.00 672	oower cable of 88 with latest und including trench etc. as rrge. 895200.00 2754.00 5886.72
25	DSR (E&M) 7.1	Cost of 1m say Rs Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 120sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman	insulated an otrol cables of follow protective or as direct m each cum Day	nd PVC sheat as per is:7 ing size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the ineer in Cha 8952.00 3.00 672 447.00	oower cable of 88 with latest und including trench etc. as orge. 895200.00 2754.00 5886.72 670.50
25	DSR (E&M) 7.1	Cost of 1m say Rs Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 120sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi	insulated an otrol cables of follow protective or as direct m each cum Day	nd PVC sheat as per is:7 ing size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the ineer in Cha 8952.00 3.00 672 447.00	oower cable of 88 with latest und including trench etc. as rge. 895200.00 2754.00 5886.72 670.50 1472.00
25	DSR (E&M) 7.1	Cost of 1m say Rs Supplying and Laying of PVC T Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 120sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total	insulated an otrol cables of follow protective or as direct m each cum Day	nd PVC sheat as per is:7 ing size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the ineer in Cha 8952.00 3.00 672 447.00	200wer cable of 38 with latest und including trench etc. as rge. 895200.00 2754.00 5886.72 670.50 1472.00 905983.22
25	DSR (E&M) 7.1	Cost of 1m say Rs Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 120sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR	insulated an otrol cables of follow protective or as direct m each cum Day	nd PVC sheat as per is:7 ing size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the ineer in Cha 8952.00 3.00 672 447.00	00wer cable of 88 with latest und including trench etc. as orge. 895200.00 2754.00 5886.72 670.50 1472.00 905983.22 895200.00
25	DSR (E&M) 7.1	Cost of 1m say Rs Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 120sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1%	insulated an otrol cables of follow protective or as direct m each cum Day	nd PVC sheat as per is:7 ing size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the ineer in Cha 8952.00 3.00 672 447.00	oower cable of 88 with latest und including trench etc. as rge. 895200.00 2754.00 5886.72 670.50 1472.00 905983.22 895200.00 8952.00
25	DSR (E&M) 7.1	Cost of 1m say Rs Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 120sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL	insulated an otrol cables of follow protective or as direct m each cum Day	nd PVC sheat as per is:7 ing size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the ineer in Cha 8952.00 3.00 672 447.00	oower cable of 38 with latest und including trench etc. as rge. 895200.00 2754.00 5886.72 670.50 1472.00 905983.22 895200.00 8952.00 904152.00
25	DSR (E&M) 7.1	Cost of 1m say Rs Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 120sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15%	insulated an otrol cables of follow protective or as direct m each cum Day Day	nd PVC sheat as per is:7 ing size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the ineer in Cha 8952.00 3.00 672 447.00	oower cable of 88 with latest und including trench etc. as orge. 895200.00 2754.00 5886.72 670.50 1472.00 905983.22 895200.00 8952.00 904152.00 135622.80
25	DSR (E&M) 7.1	Cost of 1m say Rs Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 120sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL	insulated an otrol cables of follow protective or as direct m each cum Day Day	nd PVC sheat as per is:7 ing size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the ineer in Cha 8952.00 3.00 672 447.00	oower cable of 8 with latest und including trench etc. as rge. 895200.00 2754.00 5886.72 670.50 1472.00 905983.22 895200.00 8952.00 904152.00 135622.80 1039774.80
25	DSR (E&M) 7.1	Cost of 1m say Rs Supplying and Laying of PVC i Copper conductor XLPE con amendments 1.1 kv grade excavation, sand cushioning, required in the specifications Details of Cost for : 100m MATERIAL: 3.5 x 120sq.mm cable Common burnt clay F.P,S. Fine Sand LABOUR: Wireman Khallasi Total MR Add Water Charges @ 1% TOTAL Add CPOH @ 15% TOTAL Total excluding (MR)	insulated an otrol cables of follow protective or as direct m each cum Day Day	nd PVC sheat as per is:7 ing size dir covering and ed by the Eng 100.00 918.00 8.76 1.50	098/Part-I/8 ect in grou refilling the ineer in Cha 8952.00 3.00 672 447.00	oower cable of 8 with latest und including trench etc. as rge. 895200.00 2754.00 5886.72 670.50 1472.00 905983.22 895200.00 8952.00 904152.00 135622.80 1039774.80 10783.22

RAM E	BIOLOGICALS	KWA, KOCHI				
E	ngineer	AE/AEE				
menuumg						
		s which are not available in the d costswhich are lowest and re		are directly ta	ken from th	e local market
		VD. The cost index of Kochi is			-	
		the rates provided in this estir				
		say Rs	28868.56	-		
		Cost of 1m				28868.56
		Total (A+C)				2886855.57
		Total including cost index		1.4608		30494.77
		Total	С			20875.39
		Excavation including refilling	cum	26.26	318	8350.68
		TOTAL	В			12524.71
		Add CPOH @ 15%				1633.66
		TOTAL				10891.05
		Add Water Charges @ 1%				107.83
		Total excluding (MR)				10783.22
		TOTAL	А			2856360.80
		Add CPOH @ 15%				372568.80
	1	TOTAL				2483792.00
	1	Add Water Charges @ 1%				24592.00
	1	MR				2459200.00
		Total	,			2469983.22
	1007	Khallasi	Day	4.00	368.00	1472.00
	1001	Wireman	Day	1.50	447.00	670.50
		LABOUR:		-		
	2946	Fine Sand	cum	8.76	672	5886.72
	2945	Common burnt clay F.P,S.	each	918.00	3.00	2754.00
	MR	3.5 x 300sq.mm cable	m	100.00	24592.00	2459200.00
		MATERIAL:				
		Details of Cost for : 100m				
		required in the specifications	or as direct	ed by the Eng	ineer in Cha	rge.
	DSR (E&M) 7.1	excavation, sand cushioning,	•	-	-	
26		amendments 1.1 kv grade		•	•	•
		Copper conductor XLPE cor		•		
		Supplying and Laying of PVC			•	
		say Rs	10702.70	•		
		Cost of 1m				10702.70
		Total (A+C)				1070269.57
		Total including cost index		1.4608		30494.77
		Total	С			20875.39
		Excavation including refilling	cum	26.26	318	8350.68
		TOTAL	В			12524.71

	CONSTRUCT	ION OF 5 I				ANT AT ELAM	KULAM, KO	CH	
		T			TA - PIPIN	G	1	1	
Item No:	Item Code		Descriptio	n	Units	Quantity	Rate	Amount	
1	50.18.9.9.1	Providing and fixing uPVC pipes includings jointing of pipes with one step uPV solvent cement , testing of joints complete as per direction of Engineer in Charge. 315mm dia 6Kgf/cm²							
		MATERIA							
			e 315mm	inner dia					
	MR	(Adding 3	(Adding 30% for fittings and						
		wastage)			metre	13	2740.00	35620.0	
	9999	carriage o	of materia	ls	L.S.	22.53	1.73	38.9	
	9999	Adhesive and sundries etc		L.S.	10.27	1.73	17.7		
		Labour							
	0116	fitter			day	0.37	487.00	180.1	
	0114	belder			day	0.97	368.00	356.9	
		total						36213.8	
		MR						35620.0	
		Add Wa	ter Charge	es @ 1%				356.2	
		TOTAL		A				35976.2	
		Total excl	uding MR					593.8	
		Water						5.9	
		TOTAL		В				599.8	
		Total		A+1.	4608B			36852.4	
			Add CPO	H @ 15%				5527.8	
			Cost c	of 10 M				42380.3	
			Cost o	of 1 M				4238.0	
				say Rs	4238.03	/m			
2	50.18.9.9.1	solvent ce		sting of jo	ints compl	ngs jointing of ete as per dir	• •	•	
		MATERIA	LS :						
	MR		e 250mm 0% for fitt		metro	13	1706.00	22178.0	
	9999		of materia	ls	metre L.S.	22.53			
	9999	-	and sund		L.S.	10.27			
		Labour			1				
	0116	fitter			day	0.37	487.00	180.1	
	0114	belder			day		368.00	356.9	

		total						22771.89
		MR						22178.00
		Add Wa	ter Charge	es @ 1%				221.78
		TOTAL		А				22399.78
			luding MR					593.89
		Water						5.94
		TOTAL		В				599.83
		Total		A+1.4	4608B			23276.02
			Add CPO	H @ 15%				3491.40
			Cost o	of 10 M				26767.42
			Cost o	of 1 M				2676.74
				say Rs	2676.74	/m		
3	50.18.9.9.1		ement , te 200mm dia		•	ete as per dire	ection of Eng	gineer in
		MATERIA						
	MR		e 200mm i 80% for fitt					
		wastage)		C	metre	13	1047.00	13611.00
	9999		of material		L.S.	22.53		38.98
	9999	Adhesive Labour	and sundr	ries etc	L.S.	10.27	1.73	17.77
		Labour	1					
	0116	fitter			day		487.00	180.19
	0114	belder			day	0.97	368.00	356.96
		total						14204.89
		MR						13611.00
		Add Wa	iter Charge	es @ 1%				136.11
		TOTAL		А				13747.11
		Total exc	luding MR					593.89
		Water						5.94
		TOTAL		В				599.83
		Total		A+1.4	4608B			14623.35
			Add CPO	H @ 15%				2193.50
			Cost o	of 10 M				16816.85
				of 1 M				1681.68
				say Rs	1681.68	/m		

4	50.18.9.9.1	solvent c	-	sting of jo	ints compl	ngs jointing of lete as per dir		ne step uPVC ineer in	
		MATERIA	LS :						
	MR	uPVC pip (Adding 3 wastage)	e 160mm i 80% for fitt		metre	13	662.00	8606.00	
		Labour							
	0116	fitter			day	0.37	487.00	180.19	
	0114	belder	otal				368.00	356.96	
		total						9143.15	
		MR						8606.00	
		Add Wa	ter Charge	es @ 1%				86.06	
		TOTAL		А				8692.06	
		Total exc	luding MR	ł				537.15	
		Water						5.37	
		TOTAL			В				542.52
		Total		A+1.	4608B			9484.58	
			Add CPO					1422.69	
			Cost o	f 10 M				10907.26	
			Cost o	of 1 M				1090.73	
				,		/m			
5	50.18.9.9.1	solvent c	-	sting of jo	ints compl	ngs jointing of lete as per dir		ne step uPVC ineer in	
		N	MATERIALS	5:					
	MR		e 110mm 30% for fit						
			wastage)		metre	13	312.00	4056.00	
	9999	-	of material		L.S.	22.53		38.98	
	9999		and sundr	ies etc	L.S.	10.27	1.73	17.77	
		Labour	1						
	0116	fitter			day	0.37	487.00	180.19	
	0114	belder			day	0.97	368.00	356.96	
		total						4649.89	
			MR					4056.00	
		Add Wa	iter Charge	es @ 1%				40.56	
		TOTAL		А				4096.56	

		Total exclud	ding MR						593.89
		Add Water	Charges	@ 1%					5.94
		ΤΟΤΑ		В					599.83
		Tota		A+1.4608	BB				4972.80
			POH @ :	15%					745.92
									5740 70
			st of 10 I	VI					5718.72
		Cost of 1 M			571.87		/m		571.87
		Providing a	nd fiving	,	1			nines with (one step uPVC
6	50.18.9.18.1	-	nent , t	esting of	joints c			• •	of Engineer in
		MATERIALS	:						
	MR	uuPVC pipe (Adding 30% wastage)					12	217.00	2021.00
	0000	- .	matorial	<u> </u>	metre L.S.		13 22.53	217.00 1.73	2821.00
	9999 9999	carriage of I Adhesive ar			L.S. L.S.		10.27	1.73	38.98 17.77
	3355	Labour		les elc	L.J.		10.27	1.75	17.77
	0116	fitter			day		0.32	487.00	155.84
	0110	belder			day		0.62	368.00	228.16
	0100	bandhani			day		0.13	407.00	52.91
	9999	scaffolding	etc		LS		30.98	1.73	53.5954
		total			_				3368.25
		MR							2821.00
		A	dd Wate	er Charges	@ 1%				28.21
		T	OTAL		А				2849.21
		To	otal excl	uding MR					547.25
		A	dd Wate	er Charges	@ 1%				5.47
			OTAL		В				552.72
			otalA+1.						3656.63
				l @ 15%					548.49
			ost of 10						4205.12
		C	ost of 1	M		_	100 54		420.51
		Dreviding of	ad fiving				420.51	m nin ee with	
-	50 40 0 40 4	-	-					• •	one step uPVC of Engineer in
7	50.18.9.18.1	Charge. 75	mm dia			011	ipiete as per		n Engineer in
		MATERIALS							
		uuPVC pipe							
	MR	(Adding 30%	% tor fitt	ings and					
		wastage)			metre		13	150.00	1950.00
	9999	carriage of I			L.S.		22.53	1.73	38.98
	9999	Adhesive ar	ia sundr	ies etc	L.S.		10.27	1.73	17.77
		Labour							

	0116	fitter			day		0.32	487.00	155.84
	0110	belder			day		0.62	368.00	228.16
	0100	bandhani	1		day		0.13	407.00	52.91
	9999	scaffoldir			LS		30.98	1.73	53.5954
	3333	total	- <u>5</u> ctc				50150	1.75	2497.25
		MR							1950.00
			Add Wate	er Charges	6 @ 1%)	I		19.50
			TOTAL		A				1969.50
			Total excluding MI						547.25
			Add Water Charge)			5.47
			TOTAL	Ŭ	В				552.72
			TotalA+1.	4608B					2776.92
			Add CPOH	H @ 15%					416.54
			Cost of 10	_					3193.45
			Cost of 1	М					319.35
					say	Rs	319.35	m	
		Providing	and fixing	g uPVC pip	bes inc	ludir	ngs jointing of	pipes with o	one step uPVC
8	50.18.9.18.1	solvent o		esting of	joints	con	nplete as per	direction c	of Engineer in
			63mm dia						
		MATERIA	ALS :						
			pe 63mm i	inner dia					
	MR		30% for fitt						
		wastage)		U	metr	e	13	108.00	1404.00
	9999		of material	s	L.S.	-	22.53	1.73	38.98
	9999		and sundr		L.S.		10.27	1.73	17.77
		Labour							
	0116	fitter			day		0.32	487.00	155.84
	0114	belder			day		0.62	368.00	228.16
	0100	bandhani	i		day		0.13	407.00	52.91
	9999	scaffoldir	ng etc		LS		30.98	1.73	53.5954
		total							1951.25
		MR							1404.00
			Add Wate	er Charges	6 @ 1%)			14.04
			TOTAL		Α				1418.04
			Total excl	uding MR					547.25
			Add Wate	er Charges	6 @ 1%)	1		5.47
			TOTAL		В				552.72
			TotalA+1.	4608B					2225.46
			Add CPOH						333.82
			Cost of 10						2559.27
	1	1	Cost of 1	М					255.93
			COST OF 1						
					say		255.93	m	
		_	g and fixing	g uPVC pip	bes inc	ludir	ngs jointing of	pipes with o	one step uPVC
9	50.18.9.18.1	solvent o	g and fixing	g uPVC pip esting of	bes inc joints	ludir	ngs jointing of	pipes with o	

		MATERI	ALS :					
		-	ipe 50mm ii	nner dia				
	MR		' 30% for fitti					
		wastage		U	metre	13	69.00	897.00
	9999		of materials	s	L.S.	22.53		38.98
	9999	-	and sundri		L.S.	10.27	1.73	17.77
		Labour						
	0116	fitter			day	0.32	487.00	155.84
	0114	belder			day	0.62	368.00	228.16
	0100	bandhan	i		day	0.13	407.00	52.91
	9999	scaffoldi	ng etc		LS	30.98	1.73	53.5954
		total	-					1444.25
		MR						897.00
			Add Wate	r Charges	6@1%	·		8.97
			TOTAL		А			905.97
			Total exclu	uding MR				547.25
	Add Water Ch		r Charges	6 @ 1%			5.47	
			TOTAL		В			552.72
			TotalA+1.4	4608B				1713.39
			Add CPOH	l @ 15%				257.01
			Cost of 10 M					1970.39
			Cost of 1	М				197.04
			000001 1	VI				107.01
		Drouidin			,	197.04	m	
10	50.18.9.9.1	solvent o	g and fixing	uPVC pip sting of jo	es includir ints compl	197.04 ngs jointing of ete as per dire	pipes with o	ne step uPVC
10	50.18.9.9.1	solvent o	g and fixing ement , tes 315mm dia	uPVC pip sting of jo	es includir ints compl	ngs jointing of	pipes with o	ne step uPVC
10	50.18.9.9.1	solvent o Charge. MATERIA	g and fixing rement , tes 315mm dia ALS :	uPVC pip sting of jo a 10Kgf/c i	es includir ints compl	ngs jointing of	pipes with o	ne step uPVC
10	50.18.9.9.1	solvent o Charge. MATERIA uPVC pip	g and fixing ement , tes 315mm dia ALS : pe 315mm in	uPVC pip sting of jo a 10Kgf/c u nner dia	es includir ints compl	ngs jointing of	pipes with o	ne step uPVC
10		solvent o Charge. MATERIA uPVC pip (Adding	g and fixing cement , tes 315mm dia ALS : pe 315mm in 30% for fitti	uPVC pip sting of jo a 10Kgf/c u nner dia	es includir ints compl	ngs jointing of ete as per dire	pipes with o ection of Eng	ne step uPVC ineer in
10	MR	solvent o Charge. MATERIA uPVC pip (Adding wastage)	g and fixing cement , tes 315mm dia ALS : pe 315mm in 30% for fitti	uPVC pip sting of jo a 10Kgf/c nner dia ings and	es includir ints compl m ² metre	ngs jointing of ete as per dire	pipes with o ection of Eng 4325.00	ne step uPVC ineer in 56225.00
10		solvent o Charge. MATERIA uPVC pip (Adding wastage) carriage	g and fixing cement , tes 315mm dia ALS : pe 315mm in 30% for fitti	uPVC pip sting of jo a 10Kgf/c nner dia ings and s	es includir ints compl m²	ngs jointing of ete as per dire	pipes with o ection of Eng 4325.00	ne step uPVC ineer in 56225.00 38.98
10	MR 9999	solvent o Charge. MATERIA uPVC pip (Adding wastage) carriage	g and fixing cement , tes 315mm dia ALS : be 315mm in 30% for fitti) of materials	uPVC pip sting of jo a 10Kgf/c nner dia ings and s	es includir ints compl m² metre L.S.	ngs jointing of ete as per dire 13 22.53	pipes with o ection of Eng 4325.00 1.73	ne step uPVC ineer in 56225.00 38.98
10	MR 9999	solvent o Charge. MATERIA uPVC pip (Adding wastage) carriage Adhesive Labour	g and fixing cement , tes 315mm dia ALS : be 315mm in 30% for fitti) of materials	uPVC pip sting of jo a 10Kgf/c nner dia ings and s	es includir ints compl m² metre L.S. L.S.	ngs jointing of ete as per dire 13 22.53 10.27	pipes with o ection of Eng 4325.00 1.73 1.73	ne step uPVC ineer in 56225.00 38.98 17.77
10	MR 9999 9999	solvent o Charge. MATERIA uPVC pip (Adding wastage) carriage Adhesive	g and fixing cement , tes 315mm dia ALS : be 315mm in 30% for fitti) of materials	uPVC pip sting of jo a 10Kgf/c nner dia ings and s	es includir ints compl m² metre L.S.	ngs jointing of ete as per dire 13 22.53 10.27 0.37	pipes with o ection of Eng 4325.00 1.73	ne step uPVC ineer in 56225.00 38.98 17.77
10	MR 99999 9999 9999 0116	solvent of Charge. MATERIA uPVC pip (Adding 3 wastage) carriage Adhesive Labour fitter	g and fixing cement , tes 315mm dia ALS : be 315mm in 30% for fitti) of materials	uPVC pip sting of jo a 10Kgf/c nner dia ings and s	es includir ints compl m² L.S. L.S. day	ngs jointing of ete as per dire 13 22.53 10.27 0.37	pipes with o ection of Eng 4325.00 1.73 1.73 487.00	ne step uPVC ineer in 56225.00 38.98 17.77 180.19 356.96
10	MR 99999 9999 9999 0116	solvent of Charge. MATERIA uPVC pip (Adding 3 wastage) carriage Adhesive Labour fitter belder	g and fixing cement , tes 315mm dia ALS : be 315mm in 30% for fitti) of materials	uPVC pip sting of jo a 10Kgf/c nner dia ings and s	es includir ints compl m² L.S. L.S. day	ngs jointing of ete as per dire 13 22.53 10.27 0.37	pipes with o ection of Eng 4325.00 1.73 1.73 487.00	ne step uPVC ineer in 56225.00 38.98 17.77 180.19 356.96 56818.89
10	MR 99999 9999 9999 0116	solvent of Charge. MATERIA uPVC pip (Adding 3 wastage) carriage Adhesive Labour fitter belder total MR	g and fixing cement , tes 315mm dia ALS : be 315mm in 30% for fitti) of materials	uPVC pip sting of jo a 10Kgf/c nner dia ings and s ies etc	es includir ints compl m² L.S. L.S. day	ngs jointing of ete as per dire 13 22.53 10.27 0.37	pipes with o ection of Eng 4325.00 1.73 1.73 487.00	ne step uPVC ineer in 56225.00 38.98 17.77 180.19 356.96 56818.89 56225.00
10	MR 99999 9999 9999 0116	solvent of Charge. MATERIA uPVC pip (Adding 3 wastage) carriage Adhesive Labour fitter belder total MR	g and fixing sement , tes 315mm dia ALS : be 315mm in 30% for fitti of materials and sundri	uPVC pip sting of jo a 10Kgf/c nner dia ings and s ies etc	es includir ints compl m² L.S. L.S. day	ngs jointing of ete as per dire 13 22.53 10.27 0.37	pipes with o ection of Eng 4325.00 1.73 1.73 487.00	ne step uPVC ineer in 56225.00 38.98 17.77 180.19 356.96 56818.89 56225.00 562.25
10	MR 99999 9999 9999 0116	solvent of Charge. MATERIA uPVC pip (Adding 3 wastage) carriage Adhesive Labour fitter belder total MR Add Wa TOTAL	g and fixing sement , tes 315mm dia ALS : be 315mm in 30% for fitti of materials and sundri	uPVC pip sting of jo a 10Kgf/c nner dia ings and is ies etc es etc	es includir ints compl m² L.S. L.S. day	ngs jointing of ete as per dire 13 22.53 10.27 0.37	pipes with o ection of Eng 4325.00 1.73 1.73 487.00	ne step uPVC ineer in 56225.00 38.98 17.77 180.19 356.96 56818.89 56225.00 56225.00 562.25 56787.25
10	MR 99999 9999 9999 0116	solvent of Charge. MATERIA uPVC pip (Adding 3 wastage) carriage Adhesive Labour fitter belder total MR Add Wa TOTAL	g and fixing ement , tes 315mm dia ALS : be 315mm in 30% for fitti of materials e and sundri	uPVC pip sting of jo a 10Kgf/c nner dia ings and is ies etc es etc	es includir ints compl m² L.S. L.S. day	ngs jointing of ete as per dire 13 22.53 10.27 0.37	pipes with o ection of Eng 4325.00 1.73 1.73 487.00	ne step uPVC

		Total		A+1.	4608B			57663.49
			Add CPO					8649.52
			Cost o	of 10 M				66313.01
				of 1 M				6631.30
			0310		6631.30	/m		0051.50
		Droviding	and fiving		1	1	ninos with c	one step uPVC
11	50.18.9.9.1	solvent ce	ement , te	sting of jo	ints comp	ete as per dire		-
		Charge. 250mm dia 10Kgf/cm MATERIALS :			m-			
		-						
			e 250mm i					
	MR		0% for fitt	ings and		10	2706.00	25170.00
	9999	wastage)	of material	c	metre L.S.	22.53	2706.00 1.73	35178.00 38.98
	9999	_	and sundr		L.S.	10.27	1.73	17.77
		Labour			2.3.	10.27	1.75	1,.,,
	0116	fitter			day	0.37	487.00	180.19
	0114	belder			day		368.00	356.96
		total						35771.89
		MR						35178.00
		Add Wa	ter Charge	es @ 1%				351.78
		TOTAL		А				35529.78
		Total excl	uding MR	1				593.89
		Water	Ū					5.94
		TOTAL		В				599.83
		Total		A+1.	4608B			36406.02
			Add CPO	H @ 15%				5460.90
			Cost o	of 10 M				41866.92
			Cost o	of 1 M				4186.69
				1	4186.69	/m		
12	50.18.9.9.1	solvent ce	-	sting of jo	ints comp	ngs jointing of lete as per dire	• •	one step uPVC gineer in
		MATERIA	LS :					
			e 200mm i	inner dia				
	MR		0% for fitt					
		wastage)			metre	13	1666.00	21658.00
	9999		of material		L.S.	22.53	1.73	38.98
	9999		and sundr	ies etc	L.S.	10.27	1.73	17.77
		Labour						

	0116	fitter			day	0.37	487.00	180.19
	0114	belder			day		368.00	356.96
		total						22251.89
		MR						21658.00
		Add Wa	ater Charge	es @ 1%				216.58
		TOTAL		А				21874.58
		Total exc	luding MR					593.89
		Water						5.94
		TOTAL		В				599.83
		Total		A+1.	4608B			22750.82
			Add CPO	H @ 15%				3412.62
			Cost c	of 10 M				26163.44
			Cost o	of 1 M				2616.34
				say Rs	2616.34	/m		
13	3 50.18.9.9.1	solvent c		sting of jo	ints comp	ngs jointing of lete as per dir		
		MATERIA	LS :					
	MR		e 160mm i 30% for fitt		metre	13	1054.00	13702.00
	9999		of materia	ls	L.S.	22.53	1.73	38.98
	9999	Adhesive	and sund	ries etc	L.S.	10.27	1.73	17.77
		Labour						
	0116	fitter			day	0.37	487.00	180.19
	0114	belder			day	0.97	368.00	356.96
		total						14295.89
		MR						13702.00
		Add Wa	ater Charge	es @ 1%				137.02
		TOTAL		А				13839.02
		Total exc	luding MR					593.89
		Water						5.94
		TOTAL		В				599.83
		Total		A+1.	4608B			14715.26
			Add CPO	H @ 15%				2207.29
			Cost c	of 10 M				16922.54
				of 1 M				1692.25
				say Rs	1692.25	/m		

		Providing and fixing uPVC pipes includings jointing of pipes with one step uPVC solvent cement , testing of joints complete as per direction of Engineer in						
14	50.18.9.9.1			esting of jo a 10Kgf/cı		olete as per dire	ection of Eng	gineer in
		Ν	/ATERIAL	S :				
		-		inner dia				
	MR			ttings and				
			wastage)		metre	13	503.00	6539.00
	9999	carriage o	of materia	ls	L.S.	22.53	1.73	38.98
	9999	Adhesive	Adhesive and sundries etc		L.S.	10.27	1.73	17.77
		Labour						
	0116	fitter			day	0.37	487.00	180.19
	0114	belder			day	0.97	368.00	356.96
		total						7132.89
			MR					6539.00
		Add Wa	ter Charg	es @ 1%				65.39
		TOTAL		A				6604.39
		Total excl	excluding MR					593.89
		Add Water Charges @ 1%						5.94
		TO	TAL	В				599.83
		Тс	otal	A+1.4608	B			7480.63
		Add	CPOH @	15%				1122.09
		C	Cost of 10	M				8602.72
		Cost of 1	М					860.27
				say Rs	860.27	/m		
15	50.18.9.18.1	solvent c	ement , t		joints co	ings jointing of mplete as per	• •	•
		MATERIA	LS :					
			pe 90mm					
	MR		0% for fit	tings and				
		wastage)			metre	13	334.00	4342.00
	9999	-	of materia		L.S.	22.53		38.98
	9999	Adhesive Labour	and sund	ries etc	L.S.	10.27	1.73	17.77
	0116	fitter			day	0.32	487.00	155.84
	0110	belder			day	0.52	368.00	228.16
	0100	bandhani			day	0.13	407.00	52.92
	9999	scaffoldin			LS	30.98		53.5954
		total						4889.25
		MR	1					4342.00
			Add Wat	er Charges	@ 1%			43.42

			TOTAL		А				4385.42
				uding MD					547.25
			Total excluding MR						
			Add Water Charges @ 1%					5.47	
			TOTAL	10000	В				552.72
			TotalA+1.						5192.84
			Add CPOI	_					778.93
			Cost of 10	-					5971.76
			Cost of 1	M	1				597.18
					say		597.18	m	
							0, 0	• •	one step uPVC
16	50.18.9.18.1			-	-	con	nplete as per	direction o	f Engineer in
		Charge.	75mm dia	10Kgf/cm	2				
		MATERIA	LS :						
		uuPVC pi	pe 75mm i	inner dia					
	MR	(Adding 3	80% for fitt	ings and					
		wastage)			metre	ć	13	236.00	3068.00
	9999	carriage o	of material	s	L.S.		22.53	1.73	38.98
	9999	-	and sundr		L.S.		10.27	1.73	17.77
		Labour							
	0116	fitter			day		0.32	487.00	155.84
	0114	belder			day		0.62	368.00	228.16
	0100	bandhani			day		0.13	407.00	52.91
-	9999	scaffolding etc			LS		30.98	1.73	53.5954
		total			_				3615.25
		MR							3068.00
			Add Wate	er Charges	@ 1%		1		30.68
			TOTAL		A				3098.68
			-	uding MR	1		1		547.25
				er Charges					5.47
			TOTAL		В				552.72
			TotalA+1.	4608B	1-				3906.10
			Add CPO						585.91
			Cost of 10						4492.01
			Cost of 1						449.20
					say	Rs	449.20	m	
		Providing	and fixing	uPVC nin					one step uPVC
17	50.18.9.18.1	-	-						-
1/	50.18.9.18.1		-	testing of joints complete as 10Kgf/cm ²					
		-							
			pe 63mm i						
	MR	. –	80% for fitt	ings and					
		wastage)			metre	ć	13	166.00	2158.00
	9999	-	of material		L.S.		22.53		38.98
	9999		and sundr	ries etc	L.S.		10.27	1.73	17.77
		Labour							

	0116	fitter			day		0.32	487.00	155.84		
		0114 belder 0100 bandhani 9999 scaffolding etc total		day		0.52		228.16			
	-			day		0.02		52.91			
					LS		30.98		53.5954		
	5555						50.50	1.75	2705.25		
		MR							2158.00		
		Add Water Charge			s @ 1%	,)			21.58		
			TOTAL		A	-			2179.58		
			Total excl	uding MR	1		I		547.25		
			Add Wate	-		,)			5.47		
			TOTAL	0	В				552.72		
			TotalA+1.	4608B					2987.00		
			Add CPOF	H @ 15%					448.05		
			Cost of 10) M					3435.05		
			Cost of 1	М					343.50		
					say	Rs	343.50	m			
		Providing	and fixing	g uPVC pip	bes inc	ludir	ngs jointing of	pipes with o	one step uPVC		
18	50.18.9.18.1	solvent c	solvent cement , testing of joints complete as per direction of Engineer in								
			50mm dia								
		MATERIA	LS :								
		uuPVC pi	pe 50mm i	nner dia							
	MR		0% for fitt								
		wastage)		U	metr	e	13	108.00	1404.00		
	9999	carriage c	of material	S	L.S.	-	22.53		38.98		
	9999	-	and sundr		L.S.		10.27	1.73	17.77		
		Labour									
	0116	fitter			day		0.32	487.00	155.84		
	0114	belder			day		0.62	368.00	228.16		
	0100	bandhani			day		0.13	407.00	52.91		
	9999	scaffoldin	ig etc		LS		30.98	1.73	53.5954		
		total							1951.25		
		MR							1404.00		
			Add Wate	er Charges	s @ 1%	,)			14.04		
			TOTAL		А				1418.04		
			Total excl	-					547.25		
			Add Wate	er Charges	6@1%	, D			5.47		
			TOTAL		В				552.72		
			TotalA+1.						2225.46		
			Add CPOF						333.82		
			Cost of 10						2559.27		
			Cost of 1	M					255.93		
					say		255.93	m			
		-	-					• •	one step uPVC		
19	50.18.9.18.1		ement , t 10mm dia	-	-	con	nplete as per	direction o	of Engineer in		

		MATERIALS :						
			ipe 40mm ir	nner dia				
	MR		(Adding 30% for fittings and					
		wastage)			metre	13	67.00	871.00
	9999				L.S.	22.53	1.73	38.98
	9999	carriage of materials Adhesive and sundries etc			L.S.	10.27	1.73	17.77
	5555	Labour		esell	L.J.	10.27	1.75	17.77
	0116	fitter			day	0.32	487.00	155.84
	0110	belder			day	0.62	368.00	228.16
	0114	bandhan	,		day	0.02	407.00	52.92
	9999	scaffoldi			LS	30.98	407.00	53.5954
	3333	total	ng etc		LJ	50.98	1.75	1418.2
		MR						
			Add Mata	r Charges				871.00 8.7 <u>2</u>
			Add Wate	r Charges	1			
			TOTAL	idia a MD	А			879.7
		╂────	Total exclu					547.25
		_	Add Wate	r Charges		1		5.47
		<u> </u>	TOTAL		В			552.72
		<u> </u>	TotalA+1.4					1687.13
			Add CPOH @ 15%					253.0
			Cost of 10 M					1940.20
						1		
			Cost of 1 N g and fixing	И uPVC pip	es includi	194.02 ngs jointing of	• •	one step uPV0
20	50.18.9.18.1	solvent	Cost of 1 N g and fixing	M uPVC pip esting of	bes includii joints cor		pipes with c	one step uPV0
20	50.18.9.18.1	solvent of Charge.	Cost of 1 M g and fixing cement , te 32mm dia 1	M uPVC pip esting of	bes includii joints cor	ngs jointing of	pipes with c	one step uPV
20	50.18.9.18.1	solvent of Charge.	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS :	M uPVC pip esting of LOKgf/cm	bes includii joints cor	ngs jointing of	pipes with c	one step uPV
20		solvent o Charge. MATERIA uuPVC pi	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir	M uPVC pip esting of LOKgf/cm	bes includii joints cor	ngs jointing of	pipes with c	one step uPV
20	50.18.9.18.1 MR	solvent of Charge. MATERIA uuPVC pi (Adding 3	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti	M uPVC pip esting of LOKgf/cm	pes includii joints cor 1 ²	ngs jointing of nplete as per	pipes with c direction o	one step uPV f Engineer i
20	MR	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage)	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti)	uPVC pip esting of LOKgf/cm nner dia ngs and	pes includii joints cor 2 metre	ngs jointing of nplete as per	pipes with c direction o 44.00	one step uPV f Engineer i 572.0
20	MR 9999	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti) of materials	M uPVC pip esting of LOKgf/cm nner dia ngs and	metre L.S.	ngs jointing of nplete as per 13 22.53	pipes with c direction o 44.00 1.73	one step uPV f Engineer in 572.0 38.9
20	MR	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage Adhesive	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti)	M uPVC pip esting of LOKgf/cm nner dia ngs and	pes includii joints cor 2 metre	ngs jointing of nplete as per	pipes with c direction o 44.00	one step uPV f Engineer in 572.0 38.9
20	MR 9999 9999	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage Adhesive Labour	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti) of materials	M uPVC pip esting of LOKgf/cm nner dia ngs and	metre L.S.	ngs jointing of nplete as per 13 22.53 10.27	pipes with c direction o 44.00 1.73 1.73	one step uPV f Engineer in 572.0 38.9 17.7
20	MR 9999 9999 9999 0116	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage Adhesive Labour fitter	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti) of materials	M uPVC pip esting of LOKgf/cm nner dia ngs and	metre L.S. day	ngs jointing of nplete as per 13 22.53 10.27 0.32	pipes with c direction o 44.00 1.73 1.73 487.00	one step uPV f Engineer i 572.0 38.9 17.7 155.8
20	MR 99999 9999 9999 0116 0114	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage Adhesive Labour fitter belder	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti) of materials e and sundri	M uPVC pip esting of LOKgf/cm nner dia ngs and	metre L.S. L.S. day day	ngs jointing of nplete as per 13 22.53 10.27 0.32 0.62	pipes with c direction o 44.00 1.73 1.73 1.73 487.00 368.00	one step uPV f Engineer i 572.0 38.9 17.7 155.8 228.1
20	MR 99999 9999 9999 0116 0114 0100	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage Adhesive Labour fitter belder bandhan	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti) of materials e and sundri	M uPVC pip esting of LOKgf/cm nner dia ngs and	metre L.S. L.S. day day day	ngs jointing of nplete as per 13 22.53 10.27 0.32 0.62 0.13	pipes with c direction o 44.00 1.73 1.73 487.00 368.00 407.00	one step uPV f Engineer i 572.0 38.9 17.7 155.8 228.1 52.9
20	MR 99999 9999 9999 0116 0114	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage Adhesive Labour fitter belder bandhan scaffoldin	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti) of materials e and sundri	M uPVC pip esting of LOKgf/cm nner dia ngs and	metre L.S. L.S. day day	ngs jointing of nplete as per 13 22.53 10.27 0.32 0.62	pipes with c direction o 44.00 1.73 1.73 1.73 487.00 368.00	one step uPV f Engineer in 572.0 38.9 17.7 155.8 228.1 52.9 53.595
20	MR 99999 9999 9999 0116 0114 0100	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage Adhesive Labour fitter belder bandhan scaffoldin total	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti) of materials e and sundri	M uPVC pip esting of LOKgf/cm nner dia ngs and	metre L.S. L.S. day day day	ngs jointing of nplete as per 13 22.53 10.27 0.32 0.62 0.13	pipes with c direction o 44.00 1.73 1.73 487.00 368.00 407.00	one step uPV0 f Engineer in 572.00 38.90 17.7 155.8 228.10 52.90 53.595 1119.2
20	MR 99999 9999 9999 0116 0114 0100	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage Adhesive Labour fitter belder bandhan scaffoldin	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti) of materials e and sundri	UPVC pip esting of LOKgf/cm nner dia ngs and es etc	metre L.S. day day LS	ngs jointing of nplete as per 13 22.53 10.27 0.32 0.62 0.13	pipes with c direction o 44.00 1.73 1.73 487.00 368.00 407.00	one step uPV0 f Engineer in 572.00 38.90 17.7 155.84 228.10 52.90 53.5954 1119.21 572.00
20	MR 99999 9999 9999 0116 0114 0100	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage Adhesive Labour fitter belder bandhan scaffoldin total	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti) of materials e and sundri ing etc Add Water	UPVC pip esting of LOKgf/cm nner dia ngs and es etc	metre L.S. L.S. day day LS LS (ay) day bay day bay bay bay bay bay bay bay bay bay b	ngs jointing of nplete as per 13 22.53 10.27 0.32 0.62 0.13	pipes with c direction o 44.00 1.73 1.73 487.00 368.00 407.00	one step uPV0 f Engineer in 572.00 38.90 177.7 155.84 228.10 52.9 53.595 1119.2 572.00 5.72
20	MR 99999 9999 9999 0116 0114 0100	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage Adhesive Labour fitter belder bandhan scaffoldin total	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti) of materials e and sundri ing etc Add Water TOTAL	uPVC pip esting of LOKgf/cm nner dia ngs and es etc r Charges	metre L.S. L.S. day day day LS 	ngs jointing of nplete as per 13 22.53 10.27 0.32 0.62 0.13	pipes with c direction o 44.00 1.73 1.73 487.00 368.00 407.00	one step uPV f Engineer in 572.0 38.9 17.7 155.8 228.1 52.9 53.595 1119.2 572.0 577.7
20	MR 99999 9999 9999 0116 0114 0100	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage Adhesive Labour fitter belder bandhan scaffoldin total	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti) of materials e and sundri ing etc Add Water TOTAL Total exclu	UPVC pip esting of LOKgf/cm nner dia ngs and es etc r Charges uding MR	metre L.S. L.S. day day day LS 	ngs jointing of nplete as per 13 22.53 10.27 0.32 0.62 0.13	pipes with c direction o 44.00 1.73 1.73 487.00 368.00 407.00	one step uPV0 f Engineer in 572.00 38.90 17.7 155.84 228.10 52.90 53.5954 1119.21 572.00 577.77 547.21
20	MR 99999 9999 9999 0116 0114 0100	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage Adhesive Labour fitter belder bandhan scaffoldin total	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti) of materials e and sundri ing etc Add Water TOTAL Total exclu Add Water	UPVC pip esting of LOKgf/cm nner dia ngs and es etc r Charges uding MR	metre L.S. L.S. day day day LS 	ngs jointing of nplete as per 13 22.53 10.27 0.32 0.62 0.13	pipes with c direction o 44.00 1.73 1.73 487.00 368.00 407.00	one step uPV0 f Engineer in 572.00 38.98 17.77 155.84 228.10 52.91 53.5954 1119.25 572.00 577.72 577.72 547.25 5.47
20	MR 99999 9999 9999 0116 0114 0100	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage Adhesive Labour fitter belder bandhan scaffoldin total	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti) of materials e and sundri and sundri ing etc Add Water TOTAL Total exclu Add Water TOTAL	uPVC pip esting of LOKgf/cm nner dia ngs and es etc r Charges uding MR r Charges	metre L.S. L.S. day day day LS 	ngs jointing of nplete as per 13 22.53 10.27 0.32 0.62 0.13	pipes with c direction o 44.00 1.73 1.73 487.00 368.00 407.00	f Engineer in 572.00 38.98 17.77 155.84 228.16 52.91 53.5954 1119.25 572.00 5.72 577.72 547.25 547.25 5.47 552.72
20	MR 99999 9999 9999 0116 0114 0100	solvent of Charge. MATERIA uuPVC pi (Adding 3 wastage) carriage Adhesive Labour fitter belder bandhan scaffoldin total	Cost of 1 N g and fixing cement , te 32mm dia 1 ALS : ipe 32mm ir 30% for fitti) of materials e and sundri ing etc Add Water TOTAL Total exclu Add Water	M uPVC pip esting of LOKgf/cm nner dia ngs and es etc es etc r Charges uding MR r Charges	metre L.S. L.S. day day day LS 	ngs jointing of nplete as per 13 22.53 10.27 0.32 0.62 0.13	pipes with c direction o 44.00 1.73 1.73 487.00 368.00 407.00	one step uPV0 f Engineer in 572.00 38.98 17.77 155.84 228.10 52.91 53.5954 1119.25 572.00 577.72 577.72 547.25 5.47

			Cost of 10	D M					1592.91
			Cost of 1	М					159.29
					say	Rs	159.29	m	
21	50.18.9.18.1	solvent c		esting of	joints		ngs jointing of nplete as per		
		MATERIA	LS :						
	MR	uuPVC pi	pe 25mm i 80% for fitt		metre	2	13	28.00	364.00
	9999	carriage o	of material	s	L.S.		22.53	1.73	38.98
	9999		and sundr		L.S.		10.27	1.73	17.77
		Labour							
	0116	fitter			day		0.32	487.00	155.84
	0114	belder			day		0.62	368.00	228.16
	0100	bandhani			day		0.13		52.91
	9999	scaffoldir	ng etc		ĹS		30.98	1.73	53.5954
		total	0						911.25
		MR							364.00
			Add Wate	er Charges	@ 1%				3.64
			TOTAL		A				367.64
			Total excl	uding MR	1				547.25
		Add Water Charges							5.47
			TOTAL		B				552.72
			TotalA+1.	.4608B	1				1175.06
			Add CPO						176.26
			Cost of 10	-					1351.31
			Cost of 1						135.13
					say	Rs	135.13	m	
22	50.18.9.18.1	solvent c Charge. 2	ement , t 20mm dia	esting of	ies inclu joints	udir	ngs jointing of		one step uPV0 of Engineer ir
		MATERIALS :							
	MR		pe 25mm i 80% for fitt		metre	~	13	19.00	247.00
	9999					2	22.53		
	9999	carriage of materials			L.S. L.S.		10.27		38.98
	5555	Adhesive and sundries etc			L.J.		10.27	1.75	17.7
	0116	Labour			day		0.32	487.00	155.84
	0110	fitter					0.52		228.1
		belder			day day				
	0100 9999	bandhani			day LS		0.13		52.9
	8725	scaffoldir	וצ פונ		LJ		30.98	1.73	53.595 794.2
		total							

Add Wate	er Charges		2.47			
TOTAL		А				249.47
Total excluding MR						547.25
Add Water Charges @ 1%					5.47	
TOTAL		В				552.72
TotalA+1.	4608B					1056.89
Add CPOF	l @ 15%					158.53
Cost of 10 M						1215.42
Cost of 1 M					121.54	
		say	Rs	121.54	m	

We hereby certify that the rates provided in this estimate are the rates included in the DSR 2016 or the rate approved by the PWD. The cost index of Kochi is taken as 1.4608 as instructed by the PWD. Market rates for other materials which are not available in the DSR 2016 are directly taken from the local market including all its overhead costswhich are lowest and reasonable.

Engineer	AE/AEE	
RAM BIOLOGICALS	Kochi KWA	