Name of Work: Preliminary cost for AETL CETP at Atchutapuram

Upgration of Existing Common Effluent Treatment Plant (CETP) of 1.5 MLD to 2.00 MLD

GENERAL ABSTRACT

S. No	Description		Amount (Rs.)
Α	Construction Cost		Present implementation
1	Civil works		12,12,86,832.09
2	Electro Mechanical works	į.	60,77,41,323.92
	Subtotal amount Construction works (A)		72,90,28,156.01
В	Other LS Provisions		
i	Seigniorage Charges		14,04,966.19
ii	NAC @ 0.1%	0.1%	7,29,028.16
iii	Tender Premium @ 5%	5%	3,64,51,407.80
iv	Price Adjustment and change in SoR @ 5%	5%	3,64,51,407.80
٧	Quality Control @ 1%	1.00%	72,90,281.56
vi	PMC Consultant @ 2%	2%	1,45,80,563.12
Vii	Unforseen		2,53,42,445.53
Viii	For Contengency @ 1.5%	2%	1,09,35,422.34
	Total value of work (A+B (i to vii))		13,31,85,522.50
С	GST 18%	18.0%	13,77,86,321.49
	Grand Total - (A+B+C)		1,00,00,00,000.00
	Say	Cr	100.00

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	Name of Work: Prelimina Upgration of Existing Common Efflu				4
		Abstract Sheet			
S. No	Description of Item	Unit	Quantity	Unit Rate (In Rs).	Total amount in Rs.
1	Earth work excavation for foundations and depositing on bank for all lifts and with an initial lead of 10m including all operational, incidental, labour charges such as shoring ,sheeting, planking, strutting, etc. complete for finished item of work including seigniorage excluding dewatering charges etc as per SS - 20 B (APSS 308).	Cum	2703.95	127.10	343671.95
2	Plain Cement concrete (1:2:4) using 40 mm metal with Concrete mixture including all labour charges, hire charges of all T&P, all taxes etc complete for the finished item of work as directed by the Engineer - In - Charge. All work up to plinth level.	Cum	416.03	7,419.39	3086678.70
3	Supply and placing of the Design Mix Concrete of M35 corresponding to IS 456 using WEIGH BATCHER / MIXER with 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry including cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site and including Seigniorage charges, sales & other taxes on all materials including all operational, incidental and labour charges such as weigh batching, machine mixing, laying concrete, curing etc., complete but excluding cost of steel and its fabrication charges for finished item of work (APSS No. 402) with minimum cement content as per IS code from standard suppliers approved by the department including pumping, centering, shuttering, laying concrete, vibrating, curing etc. complete but excluding cost of steel and its fabrication charges for finished item of work and including all labour charges, hire charges of all T&P, all taxes etc complete for the finished item of work as directed by the Engineer - In - Charge. FOUNDATIONS, PLINTH, PEDESTALS (Below Plinth)	Cum	2770.56	12,558.00	34792670.50
4	Supply and placing of the Design Mix Concrete of M35corresponding to IS 456 using WEIGH BATCHER / MIXER with 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry including cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site and including Seigniorage charges, sales & other taxes on all materials including all operational, incidental and labour charges such as weigh batching, machine mixing, laying concrete, curing etc., complete but excluding cost of steel and its fabrication charges for finished item of work (APSS No. 402) with minimum cement content as per IS code from standard suppliers approved by the department including pumping, centering, shuttering, laying concrete, vibrating, curing etc. complete but excluding cost of steel and its fabrication charges for finished item of work and including all labour charges, hire charges of all T&P, all taxes etc complete for the finished item of work as directed by the Engineer - In - Charge. COLUMNS, LINTELS, WATER TANKS, RCC WALLS IN BUILDINGS	-			
	la trans	2	202.22	14.070.00	2024557.70
i	Column wall	Cum	202.60 968.58	14,978.00 12,929.00	3034557.78 12522796.68
iii	Beam Beam	Cum	178.29	12,800.00	2282158.17
iv	Stair Case	Cum	24.72	8,592.00	212383.93
5	Supply, Fitting and Placing TMT bar reinforcement (Fe 500) including decoiling, bending, cracking and tying them after placing in position as directed by the Engineer-in-charge including cost and conveyance of steel and binding wire all taxes labour charges for all operations etc., complete for finished item of work as directed by the Engineer - In- Charge and as per Technical Specification 1100 & 1600 MORTH	МТ	412.92	82,560.00	34090352.04

	Total				12,12,86,832.09
12	Horticulture operations including 300 earthfilling, grassing, tree plantation/shrubs and plotted plants etc.,	Sqm	4208.88	469.70	19,76,910.94
9	Supplying, fabricating and fixing stainless steel hand railing as per approved drawing with stainless steel sections conforming to Grade 304 for baluster, top and intermediate horizontal members including SS heavy floor flange, anchor plate, anchor fasteners, grouting, SS supports, SS base plates, SS counter sunk screws, stainless steel welding, grinding, buffing, polishing, lacquer finishing, to present seamless finish, all of make approved by engineer-in-charge including cost and conveyance of all material to site, all labour charges, all taxes, all incidental charges, T&P and their operational charges etc., complete for Finished item of work.	Kg	7842.46	760.40	59,63,409.63
8	Providing Acid / Alkali Resistance Tiles as per the requirement including labour, material, conveyance of all items as per the direction of Engineer in charge.		9034.13	1,637.70	14795186.51
7	Plastering with CM (1:4), 12 mm thick including all labour charges, hire charges of all T&P, all taxes etc complete for the finished item of work as directed by the Engineer - In - Charge.	Sqm	6967,88	225.50	1571257.26
6	Providing anticorrosive treatment to HYSD bars with FUSION BONDED EPOXY COATING (FBEC) confirming to IS13620:1993 at approved plant including testing of coating as per relevent IS, before bringing the coated bars on site but excluding To & Fro transportation of bars for sending at plant site etc. complete, for HYSD bars	MT	412.92	16,019.72	66,14,798.01

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Name of Work: Preliminary cost for AETL CETP at Atchutapuram

Upgration of Existing Common Effluent Treatment Plant (CETP) of 1.5 MLD to 2.00 MLD

Seinorage Charges **Unit Rate** S. No Description of Item Unit Quantity Total amount in Rs. (In Rs). A **Civil Items** Plain Cement concrete (1:2:4) using 40 mm metal with Concrete mixture including all labour charges, hire charges of all T&P, all taxes etc complete for the finished item of 1 416.03 Cum 314.55 130861.73 work as directed by the Engineer - In - Charge. All work up to plinth level. Supply and placing of the Design Mix Concrete of M30 corresponding to IS 456 using WEIGH BATCHER / MIXER with 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry including cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site and including Seigniorage charges, sales & other taxes on all materials including all operational, incidental and labour charges such as weigh batching, machine mixing, laying concrete, curing etc., complete but excluding cost of steel and its fabrication Cum 4144.75 279.60 1158873.12 charges for finished item of work (APSS No. 402) with minimum cement content as per IS code from standard suppliers approved by the department including pumping, centering, shuttering, laying concrete, vibrating, curing etc. complete but excluding cost of steel and its fabrication charges for finished item of work and including all labour charges, hire charges of all T&P, all taxes etc complete for the finished item of work as directed by the Engineer - In - Charge. FOUNDATIONS, PLINTH, PEDESTALS (Below Plinth) Plastering with CM (1:4), 12 mm thick including all labour charges, hire charges of all T&P, all taxes etc complete for the finished item of work as directed by the Engineer -3 6967.88 16.54 Sqm 115231.34 In - Charge.

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Total

14,04,966.19

AETL CETP at Atchutapuram ent Plant (CETP) of 1.5 MLD to 2.00 MLD echanical items **Transportation** Contractors Make **Unit cost Total Cost** Erection (10%) Profit (10%) (3%)KSB/ Ebara/ Jhonson 200000.00 6000 00 20000 00 20000.00 984000.00 Unitop Aquacare/Equivalent 18400000.00 552000.00 1840000.00 1840000.00 45264000.00 Unitop Aquacare/Equivalent 82500000 00 2475000 00 8250000 00 8250000 00 202950000.00 Unitop Aquacare/Equivalent 4900000.00 147000.00 490000.00 490000.00 36162000.00 KSB/ Ebara/ Jhonson 230000.00 6900.00 23000.00 23000.00 565800.00 55000000.00 5500000.00 5500000.00 Automatic 1650000.00 135300000.00 KSB/ Ebara/ Jhonson 200000.00 6000.00 20000.00 20000.00 492000.00 KSB/ Fbara/ Jhonson 200000 00 6000.00 20000.00 20000 00 492000.00 Euroteck/Equivalent 925926.00 27777.78 92592.60 92592.60 4555555.92 Netzsch/ Roto/ Jhonson 2500000.00 250000.00 250000.00 6150000.00 75000.00 Euroteck 3765000.00 112950.00 376500.00 376500.00 55571400.00 Netzsch/ Roto/ Jhonson 200000.00 6000.00 20000.00 20000.00 492000.00 Fabrication 40000.00 1200.00 4000.00 4000.00 49200.00 Fabrication 3279600.00 98388.00 327960.00 327960.00 4033908.00 Fabrication 40000.00 1200.00 4000.00 4000.00 49200.00 Fabrication 2733000.00 81990.00 273300.00 273300.00 3361590.00 Netzsch/ Roto/ Jhonson 150000.00 4500.00 15000.00 15000.00 369000.00 roteck/Whriler/ Pure Centrifuge 4312000.00 129360.00 431200.00 431200.00 10607520.00 KSB/ Ebara/ Jhonson 200000.00 6000.00 20000.00 20000.00 738000.00 Everest/ TMVT 175000 00 5250.00 17500.00 17500.00 430500.00 1000000.00 30000.00 100000.00 100000.00 1230000.00 Tank: MS 600.00 2000.00 20000.00 2000.00 24600.00 np: Prominent/ Positive metering 15000.00 450.00 1500.00 1500.00 36900.00 Tank: MS 20000.00 600.00 2000.00 2000.00 49200.00 Tank: MS 20000.00 600.00 2000.00 2000.00 49200.00 Tank: MS 20000.00 600.00 2000.00 2000.00 24600.00 40000.00 1200.00 4000.00 4000.00 246000.00 Tank: Sintex 5000.00 150.00 500.00 500.00 18450.00 Tank: Sintex 5000.00 150.00 500.00 500.00 18450.00 5000.00 150.00 500.00 500.00 18450.00 Tank: Sintex 40000.00 1200.00 4000.00 4000.00 442800.00 np: Prominent/ Positive metering 15000.00 450.00 1500.00 1500.00 73800.00 np: Prominent/ Positive metering 20000.00 600.00 2000.00 49200.00 2000.00 np: Prominent/ Positive metering 15000.00 450.00 1500.00 1500.00 73800.00 np: Prominent/ Positive metering 20000.00 600.00 2000.00 2000.00 49200.00 np: Prominent/ Positive metering 15000.00 450.00 1500.00 73800.00 1500.00 np: Prominent/ Positive metering 20000.00 600.00 2000.00 2000.00 49200.00 44000000.00 1320000.00 4400000.00 4400000.00 54120000.00 31200000.00 936000.00 3120000.00 3120000.00 38376000.00 500000.00 0.00 0.00 0.00 500000.00 500000.00 0.00 0.00 0.00 500000.00 1200000.00 0.00 0.00 0.00 1200000.00 200000.00 0.00 0.00 0.00 200000.00 200000.00 0.00 0.00 0.00 200000.00

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Name of Work: Preliminary cost for AETL CETP at Atchutapuram

Upgration of Existing Common Effluent Treatment Plant (CETP) of 1.5 MLD to 2.00 MLD

Measurement Sheet - Civ	vil Components
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S. No	Description of Item	Unit	Nos	Length	Breadth / Width	Depth	Quantity
1	De-Nitrification Tank	Nos	1				
	Earthwork	Cum	1	37.550	17.250	0.700	453.416
	PCC	Cum	1	37.350	17.050	0.100	63.682
	Base RCC M30	Cum	1	37.350	17.050	0.500	318.409
	Walls: long	Cum	2	36.000	0.350	6.500	163.800
	Walls: short	Cum	2	0.350	15.700	6.500	71.435
	RCC Column	Cum	28	0.400	0.400	9.700	43.456
	Beam	Cum	1	327.600	0.350	0.350	40.131
	Base Slab	Cum	1	36.000	16.400	0.200	118.080
	Steel (Tor)	Kg	1	100.000	kg per cum of RCC		75531.075
	Shuttering for Column	Sqm	28	0.400	0.400	9.350	41.888
	Shuttering for Long Beams	Sqm	1	668.400	0.350	0.350	81.879
	Shuttering: Outer	Sqm	2	104.100	1.000	6.500	1353.300
	Shuttering: Inner walls	Sqm	2	103.400	1.000	6.500	1344.200
	Plastering: long walls	Sqm	2	36.350	1.000	6.500	472.550
	Plastering: short walls	Sqm	2	1.000	15.700	6.500	204.100
	Top & flooring	Sqm	1	36.000	15.700	1.000	565.200
	Tiling						1909.400
2	Aeration Tank -2		1	(1Nos)			
	Earthwork	Cum	1	37.550	74.550	0.700	1959.54
	PCC	Cum	1	37.350	74.350	0.100	277.697
	Base RCC M30	Cum	1	37.350	74.350	0.500	1388.486
	Walls: long	Cum	2	36.000	0.350	6.500	163.80
	Walls: short	Cum	1	0.350	73.000	6.500	166.07
	RCC Column	Cum	84	0.400	0.400	9.700	130.36
	Beam	Cum	1	947.900	0.350	0.350	116.11
	Base Slab	Cum	1	36.000	73.700	0.200	530.64
	Steel (Tor)	Kg	1	100.000	kg per cum of RCC		249548.70
	Shuttering for Column	Sqm	84	0.400	0.400	9.350	125.66
	Shuttering for Beams	Sqm	1	2529.900	0.350	0.350	309.91
	Shuttering: Outer	Sqm	2	218.700	1.000	6.500	2843.10
	Shuttering: Inner walls	Sqm	2	218.000	1.000	6.500	2834.00
	Plastering: long walls	Sqm	2	36.350	1.000	6.500	472.55
	Plastering: short walls	Sqm	2	1.000	73.000	6.500	949.00
	Top & flooring	Sqm	1	36.000	73.000	1.000	2628.00
	Tiling						5462.00
3	Secondary clarifier		1				
	Earthwork	Cum	1	240.625	1.000	0.550	132.34
	PCC	Cum	1	240.625	1.000	0.150	36.09

	Base RCC M30	Cum	1	250.346	1.000	0.400	100.139
	Walls: long	Cum	1	112.200	0.350	6.500	255.255
	Walls: short	Cum	1	1.000	1.000	1.000	1.000
	RCC Column	Cum	8.0	0.400	0.400	9.900	12.672
	Beam	Cum	1	112.200	0.300	0.300	10.098
	Base Slab	Cum	1	250.346	1.000	0.500	125.173
	Steel (Tor)	Kg	1	100.000	kg per cum of RCC		50433.663
	Shuttering for Column	Sqm	8.0	0.400	0.400	9.600	12.288
	Shuttering for Beams	Sqm	1	110.000	0.300	0.300	9.900
	Shuttering: Outer	Sqm	1	112.200	1.000	6.500	729.300
	Shuttering: Inner walls	Sqm	1	110.000	1.000	6.500	715.000
	Plastering: long walls	Sqm	1	110.000	1.000	6.500	715.000
	Top & flooring	Sqm	1	240.625	1.000	1.000	240.625
	Tiling	·					955.625
4	Flash mixing Tank		1				
	Earthwork	Cum	1	2.450	2.450	0.300	1.801
	PCC	Cum	1	2.250	2.250	0.100	0.506
	Base RCC M30	Cum	1	2.050	2.050	0.200	0.841
	Walls: long	Cum	2	1.600	0.200	2.100	1.344
	Walls: short	Cum	2	0.200	1.200	2.100	1.008
	RCC Column	Cum	4	0.300	0.300	5.200	1.872
	Beam	Cum	4	3.800	0.300	0.300	1.368
	Base Slab	Cum	1	1.200	1.200	0.300	0.432
	Steel (Tor)	Kg	1	100.000	kg per cum of RCC	0.000	686.450
	Shuttering for Column	Sqm	4	6.240	1.000	1.000	24.960
	Shuttering for Beams	Sqm			1.000	0.300	
	Shuttering: Outer	Sqm		5.200		2.100	21.840
	Shuttering: Inner walls	Sqm		4.800	1.000	2.100	20.160
	Plastering: long walls	Sqm		1.400	1.000	2.100	5.880
	Plastering: short walls	Sqm		1.000	1.200	2.100	5.040
	Top & flooring	Sqm		1.200	1.200	1.000	1.440
	Tiling						21.600
5	Teritiary Clariflocullator		1				
	Earthwork	Cum	1	165.196	1.000	0.500	82.598
	PCC	Cum	1	165.196	1.000	0.100	16.520
	Base RCC M30	Cum	1	173.268	1.000	0.400	69.307
	Walls: long	Cum	1	93.343	0.350	3.500	114.345
	Walls: short	Cum	1	1.000	1.000	1.000	1.000
	RCC Column	Cum	8	0.400	0.400	6.500	8.320
	Beam	Cum	1	93.343	0.300	0.300	8.401
	Base Slab	Cum	1	173.268	1.000	0.300	51.980
	Steel (Tor)	Kg	1	100.000	kg per cum of RCC		25335.323

	Shuttering for Column	Sqm	8	0.400	0.400	6.200	7.936
	Shuttering for Beams	Sqm	1	91.143	0.300	0.300	8.203
	Shuttering: Outer	Sqm	1	93.343	1.000	3.500	326.700
	Shuttering: Inner walls	Sqm	1	91.143	1.000	3.500	319.000
	Plastering: long walls	Sqm	1	91.143	1.000	3.500	319.000
	Plastering: short walls	Sqm	1	165.196	1.000	1.000	165.196
	Top & flooring	Sqm	1	14.500	1.000	1.000	14.500
	Tiling						333.500
6	Volute Press Platform		1				
	Earthwork	Cum	1	7.800	7.800	0.450	27.378
	PCC	Cum	1	7.800	7.800	0.150	9.126
	Base Slab	Cum	1	7.500	7.500	0.300	16.875
	Steel (Tor)	Kg	1	100.000	kg per cum of RCC		2600.100
7	PSF feed Sump		1			-	
	·						
	Earthwork	Cum	1	9.250	9.250	0.400	34.225
	PCC	Cum	1	9.050	9.050	0.100	8.190
	Base RCC M30	Cum	1	8.850	8.850	0.300	23.49
	Walls: long	Cum	2	8.400	0.200	4.500	15.120
	Walls: short	Cum	2	0.200	8.000	4.500	14.400
	RCC Column	Cum	9	0.300	0.300	7.300	5.913
	Beam	Cum	1	24.200	0.300	0.300	2.178
	Base Slab	Cum	1	8.000	8.000	0.300	19.200
	Steel (Tor)	Kg	1	100.000	kg per cum of RCC		8030.77
	Shuttering for Column	Cum	9	8.760	1.000	1.000	
	Shuttering for Beams	Sqm	2	65.400	1.000	0.300	39.24
	Shuttering: Outer	Sqm	2	32.400	1.000	4.500	291.600
	Shuttering: Inner walls	Sqm	2	32.000	1.000	4.500	288.000
	Plastering: long walls	Sqm	2	8.200	1.000	4.500	73.800
	Plastering: short walls	Sqm	2	1.000	8.000	4.500	72.000
	Top & flooring	Sqm	1	8.000	8.000	1.000	64.000
	Tiling						352.000
8	PSF Platform		1				
	Earthwork	Cum	1	5.300	5.300	0.450	12.64
	PCC	Cum	1	5.300	5.300	0.450	4.21
	Base RCC M30	Cum	1	5.000	5.000	0.300	7.50
	Steel (Tor)	Kg	1	100.000	kg per cum of RCC	0.000	750.000
	Stair Case						
Α	De-Nitrification Tank						
	Steps	65	1.2	0.22	0.15	2.57	
	Waist slab	3	3.2	1.2	0.15	1.73	

	Mid landing	3	2.5	1	0.15	1.13					
2	Aeration Tank -2										
	Steps	65	1.2	0.22	0.15	2.57					
	Waist slab	3	3.2	1.2	0.15	1.73					
	Mid landing	3	2.5	1	0.15	1.13					
3	Secondary clarifier										
	Steps	66	1.2	0.22	0.15	2.61					
	Waist slab	3	3.2	1.2	0.15	1.73					
	Mid landing	3	2.5	1	0.15	1.13					
5	Teritiary Clariflocullator										
	Steps	43	1.2	0.22	0.15	1.70					
	Waist slab	2	3.2	1.2	0.15	1.15					
	Mid landing	2	2.5	1	0.15	0.75					
6	PSF feed Sump				_ , _						
	Steps	49	1.2	0.22	0.15	1.94					
	Waist slab	3	3.2	1.2	0.15	1.73					
	Mid landing	3	2.5	1	0.15	1.13					
	Total					24.72					
F	Railing										
	Supplying, fabricating and fixing stainless steel hand railing as per approved drawing with stainless										
	F 4										
	For 1 meter	nos	length		kg/length						
	12 mm dia S.S. hollow pipe -					2.11					
	12 mm dia S.S. hollow pipe - horizontal	nos 2	length 2.7		kg/length 0.39	2.11					
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe -	2			0.39						
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - horizontal					2.11 3.58					
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe -	2	2.7		1.79						
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - vertical	2			0.39	3.58 6.80					
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - vertical total quantity for 1 meter	2	2.7		1.79	3.58	kgs				
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - vertical total quantity for 1 meter Tank Railing	2	2.7		1.79	3.58 6.80	kgs				
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - vertical total quantity for 1 meter	2	2.7		1.79	3.58 6.80	kgs				
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - vertical total quantity for 1 meter Tank Railing	2	2.7		1.79	3.58 6.80	kgs				
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - vertical total quantity for 1 meter Tank Railing De-Nitrification Tank Aeration Tank -2	2	2.7 1 1.9		1.79	3.58 6.80	kgs				
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - vertical total quantity for 1 meter Tank Railing De-Nitrification Tank	2	2.7 1 1.9 104.10 218.70		1.79	3.58 6.80	kgs				
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - vertical total quantity for 1 meter Tank Railing De-Nitrification Tank Aeration Tank -2 PSF feed Sump	2	2.7 1 1.9 104.10 218.70 32.40		1.79	3.58 6.80	kgs				
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - vertical total quantity for 1 meter Tank Railing De-Nitrification Tank Aeration Tank -2 PSF feed Sump Stair Case	2	2.7 1 1.9 104.10 218.70		1.79	3.58 6.80	kgs				
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - vertical total quantity for 1 meter Tank Railing De-Nitrification Tank Aeration Tank -2 PSF feed Sump Stair Case De-Nitrification Tank Aeration Tank -2	2	2.7 1 1.9 104.10 218.70 32.40 62.00		1.79	3.58 6.80	kgs				
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - vertical total quantity for 1 meter Tank Railing De-Nitrification Tank Aeration Tank -2 PSF feed Sump Stair Case De-Nitrification Tank Aeration Tank -2 Secondary clarifier	2	2.7 1 1.9 104.10 218.70 32.40 62.00 62.00 62.00		1.79	3.58 6.80	kgs				
	12 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - horizontal 50 mm dia S.S. hollow pipe - vertical total quantity for 1 meter Tank Railing De-Nitrification Tank Aeration Tank -2 PSF feed Sump Stair Case De-Nitrification Tank Aeration Tank -2	2	2.7 1 1.9 104.10 218.70 32.40 62.00 62.00		1.79	3.58 6.80	kgs				

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			Upgratio	Na n of	me of Wo Existing C	rk: Prelin ommon l	Effluent	Treatme	ent Plan	ETP at a	Atchuta P) of 1.5	puram MLD to	2.00 M	LD								
S.No	Structure	Unit	Vol (Cum) / Area (Sqm)	Nos	Length	Breadth		vil Sizin FB	Total Heigh t	Wall thick	Wall offset	Base Raft/U G Tank	Base Slab	PCC thick	Exact Offset		Column		Beam			Heignt from Ground level
Α	LTDiS Stream-2.0 MLD															b	D	L	b	D I		0.00
1	De-Nitrification Tank	Cum	3673.80	1	36.000	15.700	6.000	0.500	6.500	0.350	0.225									0.350	104.10	3.00
2	Aeration Tank -2	Cum	17082.00	1	36.000	73.00	6.000	0.500	6.50	0.350	0.225	0.500	0.200	0.100	0.100	0.400	0.400	9.70	0.350	0.350	218.70	3.00
3	Secondary clarifier	Cum	1564.06	1	17.5	500	6.000	0.500	6.50	0.350	0.250	0.400	0.500	0.150	0.100	0.400	0.400	9.90	0.300	0.300	35.70	2.90
4	Flash mixing Tank	Cum	3.02	1	1.200	1.200	1.600	0.500	2.10	0.200	0.225	0.200	0.300	0.100	0.100	0.300	0.300	5.20	0.300	0.300	5.20	2.80
5	Teritiary Clariflocullator	Cum	578.19	1	14.5	500	3.000	0.500	3.50	0.350	0.225	0.400	0.300	0.100		30155					29.70	2.70
6	Volute Press Platform	Sqm	56.25	1	7.500	7.500	0.000	0.000	0.00	0.000							_	0.000	0.000		0.000	0.50
7	PSF feed Sump	Cum	288.00	1	8.000	8.000	4.000	0.500	4.50	0.200	0.225	0.300	0.300				-	7.30			32.40	
8	PSF Platform	Sqm	25.00	1	5.000	5.000	0.000	0.000	0.00	0.000	0.000	0.300	0.000	0.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

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	Upgration of Existing Common Effluent Treatment Plant (CETP) Rate Analysis - Civil Components	of 1.5 M	LD to 2.00 M	LD	U.E
S. No	Description of Item	Unit	Quantity	Unit Rate (In Rs).	Total amount in Rs.
1	Earth work excavation for foundations and depositing on bank for all lifts and with an initial lead of 10m including all operational, incidental, labour charges such as shoring ,sheeting, planking, strutting, etc. complete for finished item of work including seigniorage excluding dewatering charges etc as per SS - 20 B (APSS 308). Ordinary soils-Mechanical Means-Upto 3 m depth including all labour charges, all taxes, Hire & Operational charges of all T&P complete for Finished item of work as directed by the Engineer - In Charge			(iii Ko).	m res
	BLD-CSTN-2-2				
	Unit = 1 Cum				
	Taking output = 240 cum				
	a) Labour				
	Mate	day	-		
	Mazdoor (Unskilled)	day	8.32	560.00	4659.2
					4659.2
	b) Machinery		0.00	0504.50	04000.0
	Hydraulic Excavator 1 cum bucket capacity	hour	6.00	3561.50	21369.0
			40.0450/	20020 20	21369.0 3543.7
	c&d) Overheads & Contractors Profit		13.615%	26028.20	931.8
	Area allowance		20.000%		30503.7
	Cost for 240 cum = a+b+c+d				127.1
	Rate per 1 Cum = (a+b+c+d)/240				127.1
2a	Plain Cement concrete (1:2:4) using 40 mm metal with Concrete mixture including all labour charges, hire charges of all T&P, all taxes etc complete for the finished item of work as directed by the Engineer - In - Charge. All work up to plinth level. BLD-CSTN-3-7				
	Unit = 1cum				
	A. MATERIALS				
	Cement	kg	320.00	4.22	1350.4
	Coarse aggregate 40 mm	cum	0.90	1976.90	1779.2
	Fine aggregate (Sand)	cum	0.45	2680.90	1206.4 118.8
	Water (including for curing)	kl	1.20	99.00	4454.8
	B. MACHINERY		+		7707.0
	Concrete Mixer 10 / 7 cft (0.2 / 0.8 cum) capacity	hour	1.00	692.70	692.7
	Control times 10 / / Cit (C.2 / C.C Carry) Capacity				692.7
	C. LABOUR				
	Mason 1st class	day	0.10	670.00	67.0
	Mazdoor (Unskilled)	day	1.98	560.00	1108.8
					1175
			12 61 50/	6323.32	1175.8 860.9
	D. Overheads & Contractors Profit		13.615%	0323.32	235.1
	Area allowance		20.000%		7419.3
	Rate for 1 cum = a+b+c+d				
3	Supply and placing of the Design Mix Concrete of M30 corresponding to IS 456 using WEIGH BATCHER / MIXER with 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry including cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site and including Seigniorage charges, sales & other taxes on all materials including all operational, incidental and labour charges such as weigh batching, machine mixing, laying concrete, curing etc., complete but excluding cost of steel and its fabrication charges for finished item of work (APSS No. 402) with minimum cement content as per IS code from standard suppliers approved by the department including pumping, centering, shuttering, laying concrete, vibrating, curing etc. complete but excluding cost of steel and its fabrication charges for finished item of work and including all labour charges, hire charges of all T&P, all taxes etc complete for the finished item of work as directed by the Engineer - In - Charge.				

	BLD-CSTN-3-14		155		
Α	FOUNDATIONS, PLINTH, PEDESTALS (Below Plinth)				-
	Unit : Cum				
	A) Labour				
	Cement	kg	400	4.22	1688.00
	Mason 1st class	day	0.13	670.00	89.11
	Mason 2nd class	day	0.27	605.00	161.54
	Mazdoor unskilled (Man & Woman)	day	4.60	560.00	2576.00
	Mazdoor unskilled (Mari & VVortian)	day	4.00	500.00	2070.00
		_			4514.65
	D) M - Li				4014.00
	B) Machinery	h	4 22	1201 10	1707.71
	Weigh Batcher Hire Charges (Machine Mixing charges)	hour	1.33	1281.10	336.72
	Vibrator hire charges	hour	1.33	252.60	
	Water (including for curing)	kl	1.20	99.00	118.80
					2163.22
	C) Material				1501.50
	20mm HBG graded metal	cum	0.80	1976.90	1581.52
	Sand	cum	0.40	2564.90	1025.96
					0.00
					2607.48
					9285.35
	Footings				
	Basic Rate				9285.35
	Hire Charges for Centering & Scaffolding				
	Material hire charges	301.00	Cum		301.00
	labour component	672.00	Cum		672.00
	area allowance	0.00			0.00
	Add Contractors Profit & overheads	13.615%		10258.35	1396.67
		20.00%			902.93
	Area allowance	20.0070			12558.00
	Total				
В	COLUMNS, LINTELS, WATER TANKS, RCC WALLS IN BUILDINGS				
В					
	Unit : Cum			 	
	A) Labour	day	0.167	670.00	111.89
	Mason 1st class		0.167	605.00	101.04
	Mason 2nd class	day	5.60	560.00	3136.00
	Mazdoor unskilled (Man & Woman)	day	5.00	300.00	0100.00
					3348.93
				+	3340.5
	B) Machinery			1001.10	1707.7
	Weigh Batcher Hire Charges (Machine Mixing charges)	hour	1.33	1281.10	
	Vibrator hire charges	hour	1.33	252.60	336.7
	Water (including for curing)	kl	1.20	99.00	118.8
					2163.2
	C) Material				
	20mm HBG graded metal	cum	0.80	1976.90	1581.5
	Sand	cum	0.40	2564.90	1025.9
	Cement	kg	400.00	4.22	1688.0
					4295.4
					9808.0
i	COLUMNS				
'	Basic Rate				9808.0
	Hire Charges for Centering & Scaffolding	2786.00	Cum		2786.0
	Add Contractors Profit & overheads	13.615%		12594.00	1714.6
		20.00%			669.7
	Area allowance	20.0073			14978.4
	Total			+	14978.0
	Rate per Cum			+ +	
	700			+ +	
ii	RCC wall			+ +	9808.0
	Basic Rate	000.00	Cum	+ +	982.0
	Hire Charges for Centering & Scaffolding	982.00 13.615%		10790.00	1469.0
	Add Contractors Profit & overheads			10/90.00	669.7
	Area allowance	20.00%			

	Total				12928.84
	Rate per Cum				12929.00
^	DOC CLAD DEAMS				
С	RCC SLAB, BEAMS Unit : Cum				
	A) Labour				
	Mason 1st class	day	0.067	670.00	44.89
	Mason 2nd class	day	0.133	605.00	80.47
	Mazdoor unskilled (Man & Woman)	day	3.077	560.00	1723.12
					1848.48
	B) Machinery				
	Weigh Batcher Hire charges (Machine mixing) charges	hour	0.308	1281.10	394.5
	Vibrator hire charges	hour	0.308	252.60	77.80
	Water (including for curing)	kl	1.20	99.00	118.80 591.18
	O) Material				391.10
	C) Material 20mm HBG graded metal	cum	0.80	1976.90	1581.52
	Sand	cum	0.40	2564.90	1025.96
	Cement	kg	400.00	4.22	1688.00
	Cerronic	9			4295.48
					6735.13
iii	Beam				
	Basic Rate				6735.13
	Hire Charges for Centering & Scaffolding	4206.00	Cum		4206.00
	Add Contractors Profit & overheads	13.615%		10941.13	1489.64
	Area allowance	20.000%			369.70
	Total				12800.4
	Rate per Cum				12800.00
iv	Slab				C725 4
	Basic Rate	500.00	0		6735.1 3
	Hire Charges for Centering & Scaffolding	502.00	Sqm	7007.40	985.3
	Add Contractors Profit & overheads	13.615%		7237.13	369.7
	Area allowance	20.00%			8592.1
	Total				8592.0
-	Rate per Cum Supply, Fitting and Placing TMT bar reinforcement (Fe 500) including decoiling,				0002.0
4	bending, cracking and tying them after placing in position as directed by the				
	Engineer-in-charge including cost and conveyance of steel and binding wire all				
	taxes labour charges for all operations etc., complete for finished item of work as				
	directed by the Engineer - In- Charge and as per Technical Specification BLD-				
	CSTN-4-1				
	Unit: 1MT				
	a) Labour Black Smith	Nos	2.00	800.00	1600.0
	Heavy Mazdoor	Nos	6.40	560.00	3584.0
	I leavy Mazucoi				
	b) Machinery				5184.0
	Binding wire	Kg	6.00	70.00	420.0
	TMT/HYSD Bars Fe 500	MT	1.05	63000.00	66150.0
					66570.0
	c&d) Overheads & Contractors Profit		13.615%	71754.00	9769.3
	Area allowance		20.000%		1036.8
	Rate per 1 MT				82560.0
	THE STATE OF THE S				
6	Providing anticorrosive treatment to HYSD bars with FUSION BONDED EPOXY COATING (FBEC) confirming to IS13620:1993 at approved plant including testing				
	of coating as per relevent IS, before bringing the coated bars on site but excluding				
	To & Fro transportation of bars for sending at plant site etc. complete, for HYSD				
	bars				
	Unit: 1MT				11100
					14100 (
	FUSION BONDED EPOXY COATING (FBEC)	MT	1.00	14,100.00	14100.0
		MT	1.00	14,100.00	14100.0

5	Cement Mortar (1:4)				
	BLD-CSTN-1-5				
	Unit : Cum				
	A) Labour				
	Mazdoor	day	0.20	560.00	112.00
	mazaon	,			
					112.00
	(D) Machinen				- 112.00
	(B) Machinery	Hrs	0.00	0.00	0.00
	Nil	1115	0.00	0.00	0.00
					0.00
	(c) Material	lum .	360.00	0.44	2020 40
	Cement	kg		8.44	3038.40
	Sand (including 5% wastage)	Cum	1.05	2564.90	2693.15
					5731.55
					5843.55
	Rate per 1 Cum				5844.00
6	Plastering with CM (1:4), 12 mm thick including all labour charges, hire charges of				
	all T&P, all taxes etc complete for the finished item of work as directed by the				
	Engineer - In - Charge.				
	For Grading I Material				
	BLD-CSTN-8-2				
	Unit = 10 sqm				
	a) Labour				
	Mason 1st class	day	0.60	670.00	402.00
	Mazdoor (Unskilled)	day	0.96	560.00	537.60
	Wazdoor (Oriskilled)	,			939.60
	LV Mark Lineau				
	b) Machinery	Hrs	0.00	0.00	0.00
	Nil	1113	0.00	0.00	0.00
		 		 	0.00
	c) Material	0	0.15	5,844.00	876.60
	Cement Mortar (1:4)	Cum	0.13	3,644.00	876.60
			12 01 50/	1816.20	247.28
	d&e) Overheads & Contractors Profit		13.615%	1010.20	191.28
	Area allowance		20.000%	-	
	Rate per 10 SQM = (a+b+c+d+e)				2254.76
	Rate per SQM				225.50
12	Supplying, fabricating and fixing stainless steel hand railing as per approved				
12	drawing with stainless steel sections conforming to Grade 304 for baluster, top				
	and intermediate horizontal members including SS heavy floor flange, anchor			1	
	plate anchor fasteners, grouting, SS supports, SS base plates, SS counter sunk			1 1	
	screws stainless steel welding, grinding, buffing, polishing, lacquer finishing, to			1 1	
	present seamless finish, all of make approved by engineer-in-charge including	3		1	
	cost and conveyance of all material to site, all labour charges, all taxes, all	IJ		1	
	incidental charges, T&P and their operational charges etc., complete for Finished	1		1 1	
	item of work.				
	Unit: 1Kg	-		+ -	
	Material State Sheets & pipes of all sizes	1.05	kg	445.00	467.25
	Stainless Steel Tubes, sections, plates, sheets & pipes of all sizes	1.05	19	1,10.50	
	& diameters for - 304 Grade (BMT-F.06)				
	Labour Charges for Fabrication of stainless steel railing works using stainless	1.00	kg	159.00	159.0
	steel welding rods including buffing, polishing, lacquer finishing, to present	1.50			
	seamless finish (BMM-V.18)				
	Add for Anchor bars & bonding materials				15.0
	And for Allohol baro a postally materials				641.2
	Over head charges & Contractors profit	13.615%			87.3
1					
	Area allowance	20.000%			31.80 760.40

Turfing Lawns with 'Doobs' grass including watering and maintenance of the lawn for one year from weeds in rows 7.5cms apart in either direction and fit for moving including supplying good earth if needed as per Technical Specification 307 MORTH.

Unit = sqm

	•			/Sqm
Rate per sqm = (a+b+c+d+e)/100				469.70
Cost for 100 sqm = a+b+c+d+e 3624.09				46,967.75
Area Allowance @20%		20%	7,433.20	1,486.64
d&e) Overheads & Contractors Profit		13.615%		5,450.21
				40,030.90
Cost of water	KI	60.00	99.00	5,940.00
Water tanker6 KL capacity	hr	20.00	1,207.60	24,152.00
Mali	day	10.00	605.00	6,050.00
Maintainance				
Doob grass	kg	200.00	8.00	1,600.00
c) Material				
Water tanker6 KL capacity	hour	0.75	1,207.60	905.70
b) Machinery				
Mazdoor for maintenance for 30 days	day	1.00	560.00	560.00
Mazdoor (Unskilled)	day	1.47	560.00	823.20
Mate	day			-
a) Labour				
Talking output = 100 sqm				

Sn. Projet - Engineer

Avata Poli

Env. Engg

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Name of Work: Preliminary cost for AETL CETP at Atchutapuram

Upgration of Existing Common Effluent Treatment Plant (CETP) of 1.5 MLD to 2.00 MLD

LEAD STATEMENT AS PER SSR 2023-24

S. No.	Name of the material	Source of supply	Total lead in Kms	Initial cost	Conveyance charges	Blasting	Mashing Crushing	Total	Unit
1	Sand for mortor	Nagavali	150.00	721.00	1959.90			2680.90	Cum
2	Sand for filling	Nagavali	150.00	460.00	1959.90			2419.90	Cum
3	Sand for concrete	Nagavali	150.00	605.00	1959.90			2564.90	_
4	Gravel/ Quarry Spall	Local	13.00	135.00	218.60			353.60	Cum
5	Aggregates 40 mm	Bagunalawada	23.00	1000.00	354.90			1354.90	Cum
	Aggregates 20 mm	Client Rates	23.00	1622.00	354.90			1976.90	Cum
7	Aggregates 10 mm	Client Rates	23.00	1109.00	354.90			1463.90	
8	Fly ash Brick (290*225*140) (Each cost Rs. 30)	Thumpala	21.00	33000.00	541.90	0.00	0.00	33541.90	1000 Nos
9	Selected earth	Local	13.00	135.00	218.60	22.00	0.00	375.60	Cum
10	Sulphate resisting cement (SRC)	At site		8440.00				8440.00	-
11	Cement (OPC 43/53 grade)	At site		4220.00				4220.00	
12	HYSD steel FE500			63000.00				63000.00	M
	Note:								
	1. Certified that the above leads are correct and nearest to the best of my knowledge.								

2.Certified that sufficient quantity and quality quality of the materials are available at the source/quarry as mentioned in above statement. The quarry notified by the mines and geology department.

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