## 3 District III (Varanasi)

#### Summary - Varanasi District 3

	Samuel Control	71-24	04-	FC Port	ion (Yen)	LC P	Portion (INR)	Reference
Items	Specification	Unit	Qty	Unit	Amount	Unit	Amount	Reference
Varanasi District 3		LS	1	ļ			1,937,327,738	
Cost of sewer cleaning equipments,								
Flushing Van		LS	1				4,055,000.00	
Hiring of Godown and Site Office		LS	1	1			1,020,000.00	
Communication & Public Outreach		LS	1	1			3,500,000.00	
Environmental and Management Plan		LS	1				1,000,000.00	
Governance and Accountibility Action								
Plan (GAAP)		LS	1		ļ		2,000,000.00	
	1		<u> </u>					
Total							1,948,902,738	

Varanasi District 2

- Problem		CAPE CO.	an .	HC Portio	n (Yen)	LC Porti	on (INR)	16.00
Items 5	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
Direct Cost]		-						
Civil/Building work								
.1 DISMANTLING AND REINSTAT	EMENT OF EXISTING	ре	1				90,142,433 41	
.2 EARTH WORK (SEWER)		pc	1				551,270,091 51	
.3 TRENCHLESS		pe	1				314,635,020 39	
.4 TIMBERING WORK		pe	1				145,259,683-61	
L5 BEDDING WORK		pe	1				71,535,354	
L6 LAYING OF R.C.C. PIPE		pe	1				130,619,941	
MANHOLES IN BRICK MASONAR	(Y	pe	1				166,689,282	
B. HOUSE CONNECTING CHAMBEI	R	pe	1		O		310,393,223	
I, BARRICADING		pc	I				6,454,800	
5. DESILTING OF SEWER PIPE		pe	1				1,842,401	
5. REPAIRS/REHABILITATION OF I	EXISTING MANHOLI	pe	J				3,450,537	
7. DISMANTELING OF EXISTING ST	EWERS	þe	1				19,252,315	
B. TRANSFER OF EXISTING HOUSE	E CONNECTIONS TO	pe	1				84,264,206	
O, MISCELLANEOUS		pc	1		***************************************		41,518,450	
	75070.5							
4								
Sub-Total					0		1,937,327,738	
				1				
						<b></b>		
			-	1				
	* 5000							
				1				
				1				
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		La participa		المبلاوا	FC Portio	on (Yen)	LC Porti	on (INR)	The second second
11/1/2	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
<civil building="" work=""></civil>					I		-		
	1. Sewer work								
	1.1 DISMANTLING WORK								·
<del></del>	Dismantling manually / by mechanical								
	means including stacking of serviceable material and disposal of unserviceable								
	material within 50 metres lead as per								
	direction of Engineer-in-Charge.		ļ					1 125 125 25	
15 43.2 - DSR 2014 1266 - SOR_U.P. Jal	a) Bitumen Road		m2	8,968			159	1,426,436.06	
Nigam Varanasi 2015-16	b) Cement Concrete Road		m3	4,309,34			1,013.71	4,368,418.72	
								0.00	
	Taking out existing CC interlocking paver blocks from footpath/ central								
	verge, including removal of rubbish								
	etc., disposal of unserviceable material								
16.83 - DSR_2014	to the dumping ground, for which		m2	113,268.32			48.30	5,470,859.77	
	payment shall be made separately and stacking of serviceable material within								
	50 metre lead as per direction of								
	Engineerin- Charge				ļ	-			
			1					0 00	
	REINSTATEMENT WORK							0 00	
	Reinstatement of Existing Bitumen		1						
UP PWD 2013	Road - Owned by Nagar Nigam		m2	8,968 48			3,634 00	32,591,440 69	
	Providing all Materials, Labours, T & P				<del> </del>			0.00	
1323 - SOR_U.P. Jal	etc & construct 100mm thick (1:2:4)		m3	4,309.34			2,228.10	9,601,635.33	
Nigam Varanasi 2015-16	Cement Concrete Road for		mı	4,309.34			2,228.10	9,001,033.33	
	Reinstatement of patch & trench cuts in		-					0.00	
	Providing and laying 60 mm thick		<del> </del>		<del> </del>			0,00	
	factory made cement concrete								
	interlocking paver block of M -30 grade								
	made by block making machine with strong vibratory compaction, of								
16.68 - DSR 2014	approved size, design & shape, laid in		m2	22,654	1		602,20	13,642,036 26	
_	required colour and pattern over and								
	including 50 mm thick compacted bed								
	of coarse sand, filling the joints with fine sand etc. all complete as per the								
	direction of Engineer-in charge		ļ						
			ļ					0.00	
	Laying old cement cocrete interlocking paver blocks of any design/shape laid in								
	required line, level, curvature, colour								
	and pattern over and including 50 mm								
16.84 - DSR_2014	thick compacted bed of coarse sand, filling the joints with fine sand etc. all		m2	117,739			195.70	23,041,606.58	
	complete as per the direction of								
	Engineer-in-charge (Old CC paver								
	blocks shall be supplied by the							+	
	1.2 EARTH WORK (SEWER)				<u> </u>			0.00	
	Excavation by manually or								
	mechanically up to following depths								
	below G.L. for laying sewer line, in ordinary soil (earth, sand, loam & clay)								
	including cutting of joints pits ramming								
	dressing, leveling by manually or		1					0.00	
	mechanically, refilling of trenches in							2000	
	15cm layer watering and ramming the same including removal of surplus earth								
	or other dismantled material up to a								
	distance of 50m from the centre of								
3001 - SOR_U.P. Jal	trenches. (Excavation for Manhole is			2 440 12			104.70	626 020 00	
Nigam Varanasi_2015-16	a) 0.0 to 1.5 mtr B.G.L		m3	3,442 13	ļ	-	184.79	636,070.28	
3002 - SOR_U.P. Jal Nigam Varanasi 2015-16	b) 1.5 to 3.0 mtr B.G.L		m3	7,974_41			231,98	1,849,902.53	
3003 - SOR U.P. Jal Nigam Varanasi 2015-16	c) 3 0 to 4.5 mtr B G I		m3	16,147.96			291,27	4,703,415 11	
3004 - SOR_U.P. Jal Nigam Varanasi 2015-16			m3	33,186.72	1		340.09	11,286,470.13	
3005 - SOR_U.P. Jal	a) 60 to 7.5 mtr B G I		m3	73,109.60			443.48	32,422,645.60	
NT 17 0016 16	0, 0.0 to 7.5 lift D.O.E		1117	1,5,105.00		<del></del>	172.70	22,122,043.00	
Nigam Varanasi 2015-16 3006 - SOR U.P. Jal					i		500	00 000 000	
Nigam Varanasi 2015-16 3006 - SOR_U.P. Jal Nigam Varanasi 2015-16	f) 7 5 to 9 0 mtr B.G.L		m3	147,071 10			583 07	85,752,747.48	

				1	PC Portio	ın (Yen)	LC Porti	on (INR)	2.4
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
:A16	Disposal of excavated excess earth away from the site including conveyance of material up to an average lead for 5km &above away from the site and corresponding required lift, loading, unloading etc								
	complete as directed by the engineer-in- charge (The quantity is net quantity By Mechanical Transport including loading, unloading and stacking (Lead upto 5 Km away from the site)	Pro-	mJ	13,475,01			366 10	4,933,202.48	
	Filling hynithitic excuyated earth		-					0,00	
03 - SOR_U.P. Jal	texaliding.rock\.iii.tianghas_nlinth a) 0.0 to 1.5 mtr B G I		en.3	62,505.00			42.39	2,649,586 95	
gam Varanasi 2014-15 03 &1006-SOR_U.P.	b) 1.5 to 3.0 mtr B G L		m3	192,240.90			2,247.07	229,740,436,80	
Nigam 03 &1006-SOR U.P.				53,477,00			2,266.04	121 181 021 08	
Nigam 03 &1006-SOR U.P.	c) 3.0 to 4.5 mu B G L		m.i						
Nigam 003 &1006 -SOR -	d) 4.5 to 6 0 mtr B G L		m3	11,663.56	ļ		2,285.01	26,514,113.54	
P Jal Nigam aranasi 2014-15 and	e) 6,0 to 9.0 mtr H G L		m³	6,129.50			2,764 78	16,946,694,49	
A16	Disposal of Road Cutting Rubbish /		m3	12,361.02			292.85	3,619,925 70	
:110	Malha / similar inserviceable		1					0,00	***************************************
milar Project Exp	Carting of exeavated earth to identified		m3	13,386 08			158 00	2,115,000,67	
								0.00	
A13	Bailing out or pumping out water liquid mud during trench executation. This includes providing necessary finel labour T&P etc. required for proper running of well point equipment of required capacity for lowering the water table during excavation and laying of		nı	11,563.23			598,35	6,918,858,67	
	1.3 TRENCHLESS					-		0 00	
	Supply of precast RCC NP4 jacking pipes manufactured by centrifugal spinning or vertical casting comply to BSEN 5911, pt 120 or EN 1916 2002 and also meet the basic concrete testing requirements specified in IS 458, IS 3597 of 1966 and IS 7596 1998. Including supply of suitable couplings (nomally Built in Type collar) made of weldable structural stainless steel confoming to BS 4360 Grade 43, or relevant Code including supply of suitable rubber rings confirming to EN stately and the suitable rubber rings confirming to EN stately and the suitable rubber rings confirming to EN stately apply of suitable rubber rings confirming to EN		m					0.00	
	150 mm dia. pipe							0.00	
	200 mm dia pipe		m	332.00			12,066.11	4,005,949 45	
	300 mm dia pipe		m	269.00			13,406 79 14,077 13	3,606,427.05	
	350 mm dia pipe 400 mm dia pipe		m	145 00 499.00	-	<del> </del>	14,747.47	2,041,184.08 7,358,988 13	
	450 mm dia pipe		m	311.00		<del></del>	15,417.81	4,794,939.16	
	500 mm dia pipe		m	540 00			16,088.15	8,687,601 22	
	600 mm dia pipe		m	368.00			18,099.17	6,660,494 27	
	700 mm dia pipe		m	90 00			20,110.19	1,809,916 92	
	800 mm dia pipe		m	439,00		-	24,450.00	10,733,550.00	
	900 mm dia pipe		m	918.00			26,813.58	24,614,870.11	
	Schedule of rates from Institute of trench	Installation of product	+					0.00	
		nine hv Trenchless upto 300 mm dia.	m	601,00		<b>†</b>	48,200.00	28,968,200,00	
		300 to 450 mm dia.	m	955			53,000.00	50,615,000 00	
		450 to 600 mm dia.	m	908.00			58,300.00	52,936,400.00	
		600 to 900 mm dia	m	1,447			74,500	107,801,500.00	
								0.00	
	1.4 TIMBERING WORK		+		-	-		0.00	

			= 4	THE WATER	FC Portio	on (Yen)	LC Porti	ion (INR)	
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Providing and fixing open timbering in								
	trenches up to 3m deep, consisting of							1	
	40mm thick approved country wood								
	plank for poling board, 125x75mm Indian Sal wood wallers and 100mm							0.00	
	diameter Sal wood ballies for shuttering								
	at 1.50m c/c including removal after								
	laying of sewers. (Measurement to be								
041 - SOR U.P. Jal	taken of the face area timbered).					-			
Vigam Varanasi 2015-16	15 to 3.0 mtr B.G.L		m2	298,528.04			393.91	117,593,178 70	
								0 00	
	Providing and fixing close timbering in								
	trenches for the following depths below G.L. consisting of 40mm thick								
	approved country wood plank for								
	poling board 125x75mm Indian Sal							0,00	
	wood walers and 100mm diameter Sal								
	wood ballies for shuttering at 1 50m c/c including removal after laying of								
	sewers (Measurement to be taken of the								
032 - SUR_U.P. Jai	3.0 to 4.5 mtr B.G.L.		m2	17,938.77			649.06	11,643,335.20	
33-SOR_U.P. Jai	4.5 to 6.0 mtr B.G.L.		m2	6,871			811,40	5,575,511.13	
ligam Varanasi, 2015-16 034-SOR_U.P. Jal			+						
ligam Varanasi 2015-16	6.0 to 7.5 mtr B.G.L.		m2	2,798			935,01	2,616,192.70	
034-SOR_U.P. Jal	7.5 to 9.0 mtr B.G.L		m2	781			935.01	730,049 73	
ligam Varanasi 2015-16 034-SOR_U.P. Jal									
ligam Varanasi 2015-16	9.0 to 10.5 mtr B.G.L.		m2	0				0,00	
								0,00	
	Extra for planking and strutting in open							0 00	
047 - SOR_U.P. Jal	timhering if required to be left		m2	5,971			899.99	5,373,444.94	
ligam Varanasi 2015-16	0.0 to 3.0 min B G.L		1112	3,371			655.55	3,373,441,51	
048 - SOR_U.P. Jal ligam Varanasi 2013-	b) 3.0 to 6.0 mtr B.G.L.		m2					0.00	
049 - SOR U.P. Jal			+					0.00	
ligam Varanasi 2013-	a) 6.0 to 9.0 mtr B.G.L.		m2					0.00	
								0.00	
•	Extra for planking and strutting in close								
	timbering if required to be left pemanently inposition (Face area of the							0,00	
	timber pemanently left to be measured)								
039 - SOR_U.P. Jal	1) 2 0 to 6 0 mt . B.G.T		m2	798			1,879.93	1,500,048 70	
ligam varanasi_2015-16			111111	7,76		ļ	1,075.55	1,500,510.10	
040 - SOR_U.P. Jal	a) 6 0 to 9,0 mtr B.G.L		m2	108	ŀ		2,114.32	227,922 51	
eigain varanasi_2015-10			T					0.00	
	BEDDING WORK		†			-		0.00	
	Providing and laying PCC Bedding								
	with 12-20mm gauge approved stone		1						
Init Estimate	ballast, coarse sand and cement in M-								
II	15 (1:2:4) all work up to plinth level,		ļ					0.00	
	including supply of all materials labour T&P etc. required for proper								
	completion of work and excluding								
								0.00	
	200 mm Dia Sewer Pipe							0.00	
	0.0 to 1.5 Mtr B.G.L.		m	46	<b>†</b>		472.76	21,699 68	
	1,5 to 3.0 Mtr B.G.L.		m	4,392		<del> </del>	484.47	2,127,768.02	
			+	· ·	<del> </del>	-			
	3.0 to 4.5 Mtr B.G.L.		m	7,333		-	500.08	3,667,061.64	
	4.5 to 6.0 Mtr B G L		m	1,719	<u> </u>	ļ	519.59	893,019.33	
	6.0 to 7.5 mtr B.G.L.		m	214			550.81	117,983.50	· · · · · · · · · · · · · · · · · · ·
			ļ					0.00	
	250 mm Dia Sewer Pipe							0.00	
	1.5 to 3 0 Mtr B G L		m	1,442			563.02	811,874.84	
	3.0 to 4.5 Mtr B.G.L		m	1,672		1	581.29	971,916.88	
	4.5 to 6.0 Mtr B G L		m	319	1		604.12	192,714.28	*
			+	<u> </u>	<u> </u>	<del> </del>	-	0.00	
	300 mm Dia Sawar Pina		-	<del> </del>	<del> </del>			0 00	
	300 mm Dia Sewer Pipe			1		+	(20.27		
	0.0 to 1.5 Mtr B G.L.		m	0		+	628.77	0 00	
	1 5 to 3.0 Mtr B.G L		m	202		ļ	644.54	130,197 08	
	3 0 to 4.5 Mtr B.G.L		m	596			665 56	396,673.76	
				0				0.00	
	400 mm Dia Sewer Pipe							0,00	
	0 0 to 1.5 Mtr B.G.L.		m	62			796.38	49,375.56	
	1.5 to 3.0 Mtr B.G.L		m	202			816.50	164,933.00	

ligns	Sanal Carrier	15.0	Cher	FC Portio	on (Yen)	LC Porti	on (INR)	Reference
nema	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
 3.0 to 4.5 Mir B G L		ni	953			843 33	803 693 49	
				-			0.00	
 450 mm Dia Sewer Pipe							0.00	
3.0 to 4,5. Mtr B, O, L		m	105			936 81	98,365.05	
							0.00	
 500 mm Dia Sewer Pipe		-					0.00	
 3 0 to 4.5. Mtr B.G.L.	<del></del>	m	49			1,033,37	50,635.13	
 2 0 10 4.3 WH D, O, IS			117			1,000101	0.00	
 600 mm Dia Sewet Pipe		-					0.00	
 0.0 to 1,5 Mtr B.G.L.		m	0			1,166,41	0,00	
 1.5 to 3.0 Mn B.G.L.		m	72			1,196.10	86,119.20	
 3 0 to 4 5 Mu B G I		111	823			1,235.68	1,016,964,64	
 4.5 to 6.0 Mtr B G L		(1)	558	-	<del></del>	1,285 16	717,119,28	
 6 0 to 7 5 mtr B G L		m	-			1,364.33	0.00	
7.5 to 9.0 mtr B G L		111				1,463.29	0,00	
 9 0 to 10 5 mtr B G L		m	()			1,562.25	0.00	
							0.00	
							0,00	
800 nm Dis Sewer Pipe							0.00	
0.0 to 1.5 Mtr B G L		m	D			1,582 84	0,00	
1.5 to 3.0 Mtr B.G L.		111	{)			1,623-25	0,00	
3.0 to 4.5 Mtr B G L		m	]()			1,677.14	16,771.40	
 4.5 to 6.0 Mtr B.G.I.		m					0.00	
6.0 to 7.5 mtr B.G.L		m		ļ	-		0.00	
 7.5 to 9.0 mtr B G L 9.0 to 10.5 mtr B.G.L.		m					0,00	
 9 0 to 10,5 min B.Cr.1		nı					0,00	
Providing and laying RCC Bedding with 12-20mm gauge approved stone ballast, coarse sand and cement in M-15 (1:2:4) all work up to plinth level. including supply of all materials labout T&P etc. required for proper completion of work and excluding							0.00	
 shuttering and centering with 0.4% of		-					0.00	
 250 mm Dia Sewer Pipe		-				6.1.70	0,00	
 0.0 to 1.5 Mtr B.G.L.		m	0			566.79	0.00	
 1.5 to 3.0 Mtr B.G.L.		m	0			580.49	0.00	
 3.0 to 4.5 Mtr B.G.L.		m	U		-	598.76	0.00	
 4.5 to 6.0 Mtr B.G.L.		m	0		-	621.59	0.00	
 6.0 to 7.5 mtr B.G.L.		m	600			658 13	394,878.00	
 7.5 to 9.0 mtr B.G.L.		m	U			703.81	0.00	
 9.0 to 10.5 mtr B <sub>1</sub> G.L.		m	0			749.48	0.00	
							0.00	
 300 mm Dia Sewer Pipe							0.00	
 0.0 to 1.5 Mtr B.G.L.		m	0			648.88	0.00	
 1.5 to 3.0 Mtr B.G.L		m	0			664,65	0.00	
3.0 to 4.5 Mtr B G L		m	0			685,67	0.00	
4.5 to 6.0 Mtr B G L		m	462			711.95	328,920.90	
6.0 to 7,5 mtr B,G,L.		m	575			754.00	433,550.00	
7.5 to 9.0 mtr B.G.L		m	0			806:57	0.00	
9.0 to 10.5 mtr B.G.L.		m	0			859.13	0.00	
							0.00	
 350 mm Dia Sewer Pipe							0.00	
 0.0 to 1.5 Mtr B.G.L.		m	0			733.96	0.00	
 1.5 to 3.0 Mtr B.G.L		m	0			751.87	0.00	
 3.0 to 4.5 Mtr B.G.L.		m	0			775,75	0.00	
 4.5 to 6.0 Mtr B.G.L		m	103	1		805,59	82,975.77	
 6.0 to 7.5 mtr B.G.L		+	0	-		853 35	0.00	
		m	0	<del>                                     </del>		913.04	0.00	
 7.5 to 9 0 mtr B G.L		m						
 9.0 to 10.5 mtr B.G.L.		m	0			972.74	0.00	
							0.00	
 400 mm Dia Sewer Pipe				1			0.00	
 0.0 to 1.5 Mtr B G L.		m	0			822.04	0.00	
1 5 to 3 0 Mtr B.G.L.		m	0			842.16	0.00	
3.0 to 4.5 Mtr B.G.L.		m	0			868.98	0.00	

	Items	Specification	Unit	Qty	FC Portio	on (Yen)	LC Porti	on (INR)	Reference
	Hems	Specification	Onn	Qiy	Unit Price	Amount	Unit Price	Amount	Reference
	4 5 to 6.0 Mtr B.G.L.		m	331	-		902.52	298,734.12	
	6.0 to 7.5 mtr B.G.L		m	0			956.17	0.00	
	7.5 to 9.0 mtr B.G.L.		m	0			1,023.23	0.00	
	9.0 to 10.5 mtr B.G.L.		m	0			1,090.30	0,00	
	2.0.0.10.0.10.0		-				1,070.00	0.00	
	450 mm Dia Sewer Pipe							0.00	** ************************************
	0.0 to 1.5 Mtr B.G.L.		m	0			935.51	0.00	
	1,5 to 3,0 Mtr B.G.L.		m	0.00			935.51	0.00	····
	3.0 to 4.5 Mtr B.G.L.			0.00			965.38	0.00	
····			m						
	4.5 to 6.0 Mtr B.G.L.		m	128			1,002.72	128,348.16	
	6.0 to 7.5 mtr B.G.L.		m	0			1,062.46	0.00	
	7.5 to 9.0 mtr B.G.L.		m	0	ļ		1,137.14	0.00	<del></del>
	9.0 to 10.5 mtr BGL		m	0			1,211.82	0 00	
								0 00	
	500 mm Dia Sewer Pipe							0.00	
	0.0 to 1.5 Mtr B.G.L.		m	0			1,007 17	0.00	
	1.5 to 3.0 Mtr B.G.L		m	0			1,031,93	0 00	
	3.0 to 4.5 Mtr B.G.L.		m	0			1,064 94	0.00	
	4.5 to 6.0 Mtr B.G.L		m	0			1,106 20	0.00	
	6.0 to 7.5 mtr B.G.L.		m	99.00			1,172,23	116,050.77	
	7.5 to 9.0 mtr B.G.L.		m	130			1,255	163,118,80	
	9.0 to 10.5 mtr B.G.L.		m	0			1,337 29	0.00	
								0.00	
	600 mm Dia Sewer Pipe							0,00	
	0.0 to 1.5 Mtr B.G.L.		m	0			1,204.27	0.00	
	1,5 to 3.0 Mtr B.G.L.		m	0			1,233,95	0.00	
	3.0 to 4.5 Mtr B.G.L.		m	0			1,273 54	0.00	
	4.5 to 6.0 Mtr B.G.L.		m	0			1,323,02	0 00	
	6.0 to 7.5 mtr B.G.L.		m	46			1,402.19	64,500.74	
	0.0 to 7,5 litt B.G.E.						1,402.15	0.00	<del></del>
	crusher broken stone of 100% passing through 20mm sieve, 20-50% passing throgh 10mm sieve and 100% retained on 6mm sieve and Dimensions are as per Approved Drawing for Following							0,00	
	a) 150 mm Dia Sewer Pipe							0 00	
	0.0 to 1.5 Mtr B.G.L.		m				349.15	0.00	
	1.5 to 3.0 Mtr B.G.L.		m				352	0 00	
	3.0 to 4.5 Mtr B.G.L.		m				356,12	0.00	
	4.5 to 6.0 Mtr B.G.L.		m				361.09	0 00	
	6.0 to 9.0 Mtr B.G.L.		m				379	0.00	
			+		<del> </del>	<del></del>		0.00	
	200 mm Dia Sewer Pipe		+ 1		<b>†</b>			0.00	
	0.0 to 1.5 Mtr B.G.L.		m	56,281			576	32,423,512.91	
	1.5 to 3.0 Mtr B.G.L.		m	36,648			580 34	21,268,155.24	
	3.0 to 4.5 Mtr B.G.L.		m				586 00	0.00	
	4.5 to 6.0 Mtr B.G.L.		m	0			593	0.00	
	60 to 7.5 mtr B.G.L.		m	0			604.39	0.00	
	7.5 to 9.0 mtr B.G.L.		m	0			619	0.00	
	9.0 to 10.5 mtr B.G.L.		m	0,00			632.68	0.00	
								0.00	
	250 mm Dia Sewer Pipe							0.00	
	0.0 to 1.5 Mtr B.G.L.		m	188,00			672.77	126,480.76	
	1.5 to 3.0 Mtr B.G.L.		m	79.00			677.68	53,536.72	
								0.00	
	600 mm Dia Sewer Pipe			-				0.00	
	0.0 to 1.5 Mtr B.G.L.		m	0.00			1,519.04	0.00	
	1 5 to 3 0 Mtr B.G.L.		m	1,147.00			1,529.41	1,754,233.27	
	3.0 to 4.5 Mtr B.G.L.	+	m	*,**7.00			1,543.24	0.00	
				0.00		-		<del> </del>	
	4.5 to 6.0 Mtr B.G.L.	-	m	0,00	-	<b>_</b>	1,560,53	0.00	
	6.0 to 7.5 mtr B.G.L.		m	0	-	<del> </del>	1,588,19	0.00	
	7.5 to 9.0 mtr B.G.L.	ļ	m	0.00		ļ	1,622 76	0.00	
	9.0 to 10.5 mtr B.G.L.	1	m	0.00	1	1	1,657.34	0.00	

		2n- v8-v4	1000	0	PC Portio	n (Yen)	LC Porti	on (INR)	Data-
	ltems -	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
								0.00	
	700 mm Dia Sewer Pipe		-					0.00	
	0.0 to 1.5 Mtr B Q 1.		m	0,00			1,810,05	0.00	
	1,5 to 3,0 Mtr B,G,L,		m	633,00			1,822.25	1,153,484,25	
	3 0 to 4,5 Mir B,G L.		m	223			1,839	409,987,73	
	7 0 0 42 pm 150 0.		-		·		1,000	5 00	
	1.5 LAYING OF R.C.C. PIPE							000	
	Supply and carting to site RCC NP3		1						
	pipes (with s/s ends) as per IS; 458 - 2003 (Amended up to date) including all taxes (Central and Local) with Rubber gaskets (EPDM/SBR) as per IS; 5382-1985 or (Amended up to date), including cost of Rubber gaskets, labour required, transportation, loading, unloading & stocking etc (excluding cost of laying, jointing, testing and commissioning). The pipe shall be IS!							0.00	
	150 mm		11)					0.00	
	a) 200 mm dia RCC pipe		m	106 682 30			588.57	62,789,834 89	
	b) 250 mm dia RCC pipe		m	4,3(10)			7(13	3,022,301 44	
	c) 300 mm dia RCC pipe		m)	1,835.0			985.45	1,808,304 05	
	d) 350 mm dia RCC pipe		m	1,155 00			1,343.40	1,551,627.46	
	e) 400 mm dia RCC pipe		111	1,548			1,617	2,503,425 10	
	f) 450 mm dia RCC pipe		fn	233 00			1,749 08	407,534.59	
	g) 500 mm dia RCC pipe		m	278		İ	2,145	596,227 40	
	h) 600 mm dia RCC pipe		m	2,646			2,711	7,173,678,66	
	i) 700 mm dia RCC pipe		111	850			3,305	2,829,259,69	
	j) 750 mm dia RCC pipe		m	10.0			3,500.00	35,000,00	
	k) 800 mm dia RCC pipe		nı				3,977	0,00	
			·					0,00	
· · · · · · · · · · · · · · · · · ·	Lowering in trenches, aligning, laving &	jointing of RCC pipes N	NP3 clas	s (with s/s en	ds) as per IS:	458 - 1988	(Amended up to	0.00	
	a) 150 mm dia RCC pipe		1		, , , , , , , , , , , , , , , , , , ,			0.00	
	0.0 to 1.5 Mtr B.G.L.		1					0.00	
	1 5 to 3,0 Mtr B.G.L							0.00	
	3.0 to 4.5 Mtr B.G.L.						*******	0.00	
	4.5 to 6.0 Mtr B.G.L.							0.00	
	6.0 to 9.0 Mtr B.G.L.		<del> </del>					0.00	
			1					0,00	
	200 mm dia RCC pipe							0.00	
198- SOR_U.P. Jai	0.0 to 1.5 Mtr B.G.L.			56,326,95			356.53	20,082,247,48	
ligam Varanasi 2014-15	17		m						
	1.5 to 3.0 Mtr B.G.L.		m	41,039,70			379.53	15,575,640.77	
	3.0 to 4.5 Mtr B.G.L.		m	7,333			403	2,955,598.04	
	4.5 to 6.0 Mtr B.G.L.		m	1,718_70			430.51	739,917.49	
	6,0 to 7,5 mtr B.G.L.		m	214.20			469.02	100,463.06	
	7.5 to 9.0 mtr B.G.L		m	0			521	0.00	
								0.00	
								0,00	
	250 mm dia RCC pipe		ļ					0.00	
199 - SOR_U P. Jal Jigam Varanasi 2014-15			m	188			372	69,864.56	
	1 5 to 3 0 Mtr B.G.L.		m	1,521.0			395.59	601,691.61	
	3.0 to 4.5 Mtr B.G.L.		m	1,672 0			420.12	702,434.64	
	4.5 to 6.0 Mtr B.G.L.		m	319.0			448.73	143,145.24	
	6,0 to 7,5 mtr B.G.L.		m	600			489	293,319.67	
	7.5 to 9.0 mtr B.G.L.		m	0			543	0.00	
								0.00	
								0.00	
		**************************************						0.00	
	300 mm dia RCC pipe		<del> </del>					0.00	· · · · · · · · · · · · · · · · · · ·
200 SOR_U.P. Jal				0			461	0.00	
Nigam Varanasi_2014-15	0.0 to 1.5 Mtr B.G.L. 1.5 to 3.0 Mtr B.G.L.		m	202			490.93	99,167.07	
			-					-	
	3.0 to 4.5 Mtr B.G.L		m	596			521.36	310,732.94	
	4.5 to 6.0 Mtr B.G.L.		m	462		l	557	257,276.18	

		Specification	Ust	Otto	FC Portio	on (Yen)	LC Porti	on (INR)	Reference
	ltems	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	6 0 to 7.5 mtr B G.L.		m	575			607	348,842.32	
	7.5 to 9.0 mtr BGL		m	0,0			674.01	0.00	
		-						0.00	
			1				-	0.00	
	350 mm dia RCC pipe				<del> </del>			0.00	
3201 - SOR_U.P. Jal				0.0	<del> </del>		517.22	0.00	
Nigam Varanasi_2014-15	0 0 to 1.5 Mtr B.G.L.		m	0,0		ļ			
	1.5 to 3.0 Mtr B G.L		m	0			551	0.00	
	3 0 to 4 5 Mtr B G L		m	0.0	ļ		584.72	0_00	
	4.5 to 6.0 Mtr B.G.L.		m	103_0			624.54	64,327.94	
	6.0 to 7.5 mtr B.G.L.		m	650			680	442,261,89	
	7.5 to 9.0 mtr B,G.L.		m	402			756	303,878.65	
					1			0,00	
202 SOR UP Jal	400 mm dia RCC pipe		+		ļ	-		0.00	
ligam Varanasi_2014-15	0,0 to 1,5 Mtr B.G.L.		m	62.00			562.5	34,873.14	
	1.5 to 3.0 Mtr B.G.L.		m	202			599	120,947.36	
	3.0 to 4.5 Mtr B.G.L.		m	953			636	605,986.34	
	4 5 to 6,0 Mtr B,G,L.		m	331			679	224,809.42	
	6.0 to 7.5 mtr B G L		m	0			740	0 00	
	7.5 to 9.0 mtr B.G.L.		m	0			822	0 00	
								0.00	<del></del>
			+					0.00	
	450 mm dia RCC pipe				1			0,00	
203 SOR_U P Jai	0.0 to 1.5 Mtr B.G.L.		0	0			667	0 00	
Jigam Varanasi 2014-15	1.5 to 3.0 Mtr B.G.L.		m	0	<del> </del>	<del> </del>	710	0,00	
	3.0 to 4.5 Mtr B.G.L.		m	105			754	79,206.62	
	4.5 to 6.0 Mtr B.G.L.		m	128			806	103,133.25	
	6.0 to 7.5 mtr B.G.L		m	0			878	0.00	
	7.5 to 9.0 mtr B.G.L		m	0			975	0.00	
	7.5 to 50 min B.G.E.					<del> </del>		0.00	
					<del> </del>			0.00	
	500 dia RCC aina		+			-		0.00	
204 - SOR_U.P. Jal	500 mm dia RCC pipe		0	0			744	0.00	
Nigam Varanasi 2014-15	0.0 to 1.5 Mtr B.G.L. 1.5 to 3.0 Mtr B.G.L.	:	+	0		-	792	0.00	
	3.0 to 4.5 Mtr B.G.L.		m	49	-		841	41,221.82	
	4.5 to 6.0 Mtr B.G.L.		m m	0			899	0.00	
	6.0 to 7.5 mtr B.G.L.	<del> </del>	m	99	+		979	96,914.00	
	7.5 to 9.0 mtr B.G.L.		+ +	130			1,088	141,384.78	
	7.5 to 9.0 min B.G.E.		m	150		-	1,000	0.00	
					<del></del>			0.00	
	600 mm dia RCC pipe		-		-			0.00	
205 - SOK_O.P. Jal	0.0 to 1.5 Mtr B.G.L.		m	0		<del> </del>	841	0.00	
Jigam Varanasi 2014-15	1.5 to 3.0 Mtr B.G.L.		m	1,219	1	<del> </del>	895	1,090,991.62	
	3.0 to 4.5 Mtr B G L		m	823			950	782,244.37	
	4.5 to 6.0 Mtr B G L		m	558			1,015	566,491 48	
	6 0 to 7.5 mtr B.G.L.		m	46			1,106	50,876.91	
	7.5 to 9.0 mtr B.G.L.		m	0			1,229	0.00	
			m		1	-		0.00	
	700 mm dia RCC pipe		+	0				0.00	
206 - SOR_U.P. Jal Jigam Varanasi, 2014-15	0.0 to 1.5 Mtr B.G.L.		m	0			929	0.00	
emain varanger /////4-15	1.5 to 3.0 Mtr B.G.L.		m	633			989	625,878.86	
	3,0 to 4,5 Mtr B_G,L		m	223			1,050	234,161.96	
	4.5 to 6.0 Mtr B G L		m	0			1,122	0.00	
	6.0 to 7.5 mtr B.G.L		m	0			1,222	0.00	
	7.5 to 9.0 mtr B.G.L.		m	0			1,357	0.00	
								0.00	
								0.00	
	750 mm dia RCC pipe						_	0.00	
nterpolated	0.0 to 1.5 Mtr B.G.L		m	0		1	1,134	0.00	
	1.5 to 3.0 Mtr B.G.L.		m	0			1,207	0.00	
	3.0 to 4.5 Mtr B G L		m	10	1	1	1,282	12,815.74	

	lieina	Specification	Unit	Qty	PC Portio	,, ( i en)	i com	on (INR)	Reference
	11,011,0	Missilveni	Citic	40	Unit Price	Amount	Unit Price	Amount	receive
	2. MANHOLES IN BRICK MASONA	RY							
	2.1 CIRCULAR BRICK MANHOLE								
	Construction of Brick Circular Stanfold in first Class Bush of following Sizes								
	a) 150 mm dia Sewer Pipe								
	U U to 1 3 mitr ne with you min Manhole		No						
	PS to 3 0 mit it with 900 mm Mailtole		No						
_	317 to 4 5 mit at with you min attinnois		No						
	25 to 6.0 mili ni with you min Minning		-		-				
	פוסתותו אותור טע מודי און יותו טע פול אותו פולים		No		-				
	Dia		No				-		
	200 mm dia Sewer Pipe								
	De to 3.0 mit nt with 900 min Minhole		No	2,377			15,752	37,450,214.45	
	1 2 to 3 with it with and with vitinings		No	1,652			34,397	56,808,240,57	
	13.0 to 4.5 mit fit with 900 mm Minnfold		No	301			64,027	19,265,697,08	
			No	72			116,838	8,441,555.50	
	Bit to 7.5 mile he while you mine a thinkole.		No	9			150,620	1,408,297,49	
	7,5 to 9 0 mit ht willt 900 mar Minhole		No	()			274,701	0,00	
	1112							0,00	
								0,00	
	250 mm dia Sewei Pipe				-		-	0.00	
	U.O to 1.5 mit ht with 900 mm Manhole		No	7			15,905	111,331,77	
	1,5 to 3 ti mir hi with 900 mm Manhole		-	50	-		34,446	2.032.321.95	
	3.0 to 4.5 mit of with you non Manhole		No						
	4.5 to 6 0 mtr ht with 900 mm Manhole		No	67			63,857	4,278,401,77	
	6.0 to 7.5 mtr ht with 900 mm Manhole		No	12			116,527	1,398,323.53	
	Dia 7.5 to 9.0 mit ht with 900 mm Manhole		No	24			149,852	3,596,458.83	
	Dia		Nο	()			273,314	0.00	
								0.00	
								0.00	
	300 mm dia Sewer Pipe							0.00	
	0.0 to 1.5 nitr ht with 900 nim Manhole		No	D			16,035	0.00	
	1.5 to 3.0 mitr ht with 900 mm Manhole		No	9			34,464	310,177.42	
	3.0 to 4.5 mtr ht with 900 mm Manhole		No	24	<del>                                     </del>		63,647	1,527,520.50	
	4.5 to 6.0 mit hi with 900 mm Manhole		No	18			116,191	2,091,431.86	
	0.0 to 7.5 mir ht with 900 mm Manhole		No	22			149,057	3,279,255.67	
	7.5 to 9.0 mtr ht with 900 mm Manhole		-	0			271,906		
	Dia		No				2/1,906	0.00	
					ļ	ļi	· · · · · · · · · · · · · · · · · · ·	0.00	
				0				0,00	
	350 mm dia Sewer Pipe 0.0 to 1.5 mtr ht with 900 mm Manhole							0.00	
			No	U			16,000	0.00	
	1.5 to 3.0 mtr ht with 900 mm Manhole		No	0			34,344	0.00	
	3.0 to 4.5 mtr ht with 900 mm Manhole		No	0			63,242	0.00	
	4.5 to 5.0 mtr ht with 900 mm Manhole		No	5			115,847	579,234.32	
	5.0 to 7.5 mtr ht with 900 mm Manhole		No	28			148,253	4,151,078.88	
	7.5 to 9.0 mtr ht with 900 mm Manhole		No	14			270,496	3,786,947.63	
	Dia				<b> </b>		-,	0.00	
			-					0.00	
	400 ppp dia Server Die-							0.00	
	400 mm dia Sewer Pipe 0.0 to 1.5 mtr ht with 900 mm Manhole		\ \	-	-		16.101		
	Dia 1.5 to 5.0 mtr ht with 900 mm Manhole		No	3			16,106	48,318.18	
	3.0 to 4.5 mtr ht with 900 mm Manhole		No	9			34,357	309,215.94	
	Dia 4.5 to 6.0 mtr ht with 900 mm Manhole		No	37			62,967	2,329,787.25	
	0.0 to 7.5 mtr ht with 900 mm Manhole		No	13			115,478	1,501,213.28	
	Dia		No	0			147,421	0.00	
	Dia 7.5 to 9.0 mtr ht with 900 mm Manhole		No	0			269,065	0.00	
								0.00	
								0.00	
	450 mm dia Sewer Pipe							0.00	
	0.0 to 1.5 mtr ht with 900 mm Manhole		No	0			16,048	0.00	
	1.5 to 3.0 mtr ht with 900 mm Manhole				<b> </b>			<del> </del>	
	Dia 3.0 to 4.5 mtr ht with 900 mm Manhole		No	0		ļI	34,232	0.00	
	Thia 4.5 to 6.0 mtr ht with 900 mm Manhole		No	5			62,668	313,341.40	
	Dia 6.0 to 7.5 mtr ht with 900 mm Manhole		No	5			115,102	575,507.66	
	7.5 to 9.0 mtr ht with 900 mm Manhole		No	0			146,580	0.00	
	7.5 to 9.0 mfr ht with 900 mm Manhole		No	0			267,634	0.00	

Name of the State	11.0	Otto	FC Portic	n (Yen)	LC Porti	on (INK)	Daf
Items Specific	ation Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
						0.00	
			1			0 00	
500 mm dia Sewer Pipe		1				0_00	
U.U to 1.5 mtr ht with 900 mm Manhole	No	0	1		16,138	0.00	
 T 5 to 3.0 mtr ht with 900 mm Manhole	No	1 0	<del> </del>		34,203	0.00	
 3.0 to 4.5 mtr ht with 900 mm Manhole	No	3	<del>                                     </del>		62,338	187,013 62	
 4,5 to 6.0 mtr ht with 900 mm Manhole	No	1 0	+		114,887	0.00	
 6.0 to 7.5 mtr ht with 900 mm Manhole		<del> </del>	<del> </del>	<del>  </del>		583,647.20	
 7.5 to 9.0 mtr ht with 900 mm Manhole	No	4	<del>                                     </del>		145,912		
 Dia	No	5	<del> </del>		266,398	1,331,989.09	
		<u> </u>	ļ	ļ		0.00	
		0	ļ			0.00	
 600 mm dia Sewer Pipe 0.0 to 1.5 mtr ht with 900 mm Manhole		0.000				0.00	
 Dia 1.5 to 3.0 mtr ht with 900 mm Manhole	No	0			16,130	0.00	
	No	50			34,001	1,700,037.96	
Dia 3.0 to 4.5 mir ht with 900 mm Manhole Dia	No	32			61,590	1,970,867.96	
 Dia 4.5 to 6.0 mtr ht with 900 mm Manhole	No	20			114,062	2,281,233.85	
Dia 6 U to 7,5 mtr ht with 900 mm Manhole	No	2			144,148	288,295.54	
 Dia 7,5 to 9,0 mtr ht with 900 mm Manhole	No	0			263,489	0.00	
 			<u> </u>			0 00	
			†			0.00	
 700 mm dia Sewer Pipe		<del> </del>				0.00	~~
 U U to 1.5 mfr hf with 1200 mm	No	0			19,345	0.00	
 Manhole Dia 1.5 to 3.0 mtr ht with 1200 mm	No	23	1		40,541	932,446.36	
 Manhole Dia 3 0 to 4 5 mtr ht with 1200 mm	No	10			72,843	728,430.80	
 Manhole Dia 4 5 to 6 0 mtr ht with 1200 mm	No	0	-		133,285	0.00	
 Manhole Dia 6.0 to /5 mtr ht with 900 mm Manhole		<del></del>	<del>                                     </del>			0.00	
 7.5 to 9.0 mtr ht with 900 mm Manhole	No	0	ļ		170,295		
 Dia	No	0			307,000	0.00	
		<del> </del>				0.00	·····
			1			0.00	
 800 mm dia Sewer Pipe U.U to 1.5 mtr ht with 1200 mm			ļ			0,00	
 Manhole Dia 1.5 to 3 0 mit ht with 1200 mm	No	0	ļ		19,422	0,00	
 Manhole Dia 3 U to 4 S mir ht with 1200 mm	No	0,000			40,445	0 00	
Manhole Dia	No	1			71,823	71,823 09	
Providing uPVC drop connection for 60 cm drop from invert level of lateral/branch sewer line to maximum water line of main sewer in manhole including inspection and cleaning eye with chain and lid, drop pipe and bends, tees, encased all around with cement concrete 1:2:4 with all centering and shuttering required, cutting holes in wall and making good with brickwork in cement mortar 1:4, plastered with cement mortar 1:13 on inside of the manhole wall, stiff cement mortar 1:1 joints between uPVC (S/S) and RCC pipe (S/S), making required channels	Nos	100			7,208	720,800.00	
Additional cost for Manhole Cover for Providing of SFRC Extra HD 35 on Major roads instead of SFRC HD 20	No	1,368			218	298,823.62	

			A Parks	1	PC Portio	on (Yen)	1.C Port	ion (INR)	Parket
	Itoms	Specification	Unit	Qiy	Unit Price	Amount	Unit Price	Amount	Reference
	Construction of rond side inspection chamber for multiple property connections including excavation with clear opening of 600x400mm and upto the depth of 900mm in all types of soil with 230 mm thick brick masonry (first class brick) in CM (1-4), 100 mm thick PCC of M15 in foundation 12mm thick inside and outside plastering with CM (1:3), finished with PCC M15 flooring of 75mm thick as per drawings, including covering of chamber by supplying and fixing SPRC frame and cover as per IS 12592 (Part I and II) including fixing 2 Nos 110 OD uPVC pape pieces and plugging the same and providing, laying one no 150mm RCC			4,514			68,760	310,393,222 85	
	NP2 pipe from and side chamber to manhole of required length including granular bedding and cost of materials, labour required, cost of specials, etc.								
	4. BARRICADING								
	16.81 - DSR 2014	Providing and creeling 2.00 metre buds	mı	2,000			1,467	2,934,000,00	
								0.00	
	Similar project exp	Supply of all material, lat	m	8,000	1		440	3,520,800.00	
					1			-	
Schedule of rates from Institute of Trenchless Technology 2014_1.7	5. DESILTING OF SEWER PIPE  Desiting the existing old sewer lines through jetting and suction machines including cleaning battricading and reconstruction of manholes for section isolation by plugging and flow stoppage, setting up the over-pumping arrangements traffic management, jetting and dislodging of aemāulated silt from the pipelines, temoval of silt through suction hose, disposal of removed silt from upto a distance of 20 km, necessary temporary repais of sewers to stop locational collapses, ingress of ground water in desilted section of the pipelines all complete as per the instructions of the Employer's  6. REPAIRS/REHABILITATION OF  7. DISMANTELING OF EXISTING SEX.	Refurbishment of existing		357			5.167	3,450,537.39	
3001 - SOR_U.P. Jal Nigam Varanasi 2014-15	line, in ordinary soil (earth, sand, loam & clay) including refilling of trenches in 15cm layer watering and ramming the same including supply of required earth to achieve the existing road level excluding of dismentling of old existing sewer line including supply all material, labour and T&P etc to complete the a) 0.0 to 1.5 mtr B.G.L  a) 1.5 to 3.0 mtr B.G.L		m3	49,500 19,500			185 232	9,147,105.00	
3002 - SOR_U.P. Jal					-				
Nigam Varanasi 2014-15							701	0.00	
	b) 3 0 to 4.5 mtr B G I		m3				291	0.00	
Nigam Varanasi 2014-15 3003 - SOR_U.P. Jal Nigam Varanasi 2014-15 3117.i- SOR_U.P. Jal	b) 3.0 to 4.5 mtr B.G.L  Dismantling of old existing sewer including taking out the same from the trench removal and stacking properly at site, as per direction of Engineer-incharge of following sizes		m3 m	10,000			245		
Nigam Varanasi 2014-15 3003 - SOR U.P. Jal Nigam Varanasi 2014-15	b) 3.0 to 4.5 mtr B.G.L  Dismantling of old existing sewer including taking out the same from the trench removal and stacking properly at site, as per direction of Engineer-incharge of following sizes  250 mm dia		m				245	2,446,000.00	
Nigam Varanasi 2014-15 3003 - SOR_U.P. Jal Nigam Varanasi 2014-15 3117.i- SOR_U.P. Jal Nigam Varanasi 2015-16 3118.i- SOR_U.P. Jal Nigam Varanasi 2015-16	b) 3.0 to 4.5 mtr B.G.L  Dismantling of old existing sewer including taking out the same from the trench removal and stacking properly at site, as per direction of Engineer-incharge of following sizes  250 mm dia			10,000			245 294	0.00 2,446,000.00 2,935,600.00	
Nigam Varanasi 2014-15 3003 - SOR_U.P. Jal Nigam Varanasi 2014-15 3117.i- SOR_U.P. Jal Nigam Varanasi 2015-16 3118.i- SOR_U.P. Jal Nigam Varanasi 2015-16 3119.i- SOR_U.P. Jal	b) 3.0 to 4.5 mtr B.G.L  Dismantling of old existing sewer including taking out the same from the trench removal and stacking properly at site, as per direction of Engineer-incharge of following sizes  250 mm dia  400 mm dia		m				245	2,446,000.00	
Nigam Varanasi 2014-15 3003 - SOR_U.P. Jal Nigam Varanasi 2014-15 3117.i- SOR_U.P. Jal Nigam Varanasi 2015-16 3118.i- SOR_U.P. Jal Nigam Varanasi 2015-16 3119.i- SOR_U.P. Jal Nigam Varanasi 2015-16	b) 3.0 to 4.5 mtr B.G.L  Dismantling of old existing sewer including taking out the same from the trench removal and stacking properly at site, as per direction of Engineer-incharge of following sizes  250 mm dia  300 mm dia  600 mm dia		m m				245 294	0.00 2,446,000.00 2,935,600.00	
Nigam Varanasi 2014-15 3003 - SOR_U.P. Jal Nigam Varanasi 2014-15 3117.i- SOR_U.P. Jal Nigam Varanasi 2015-16 3119.i- SOR_U.P. Jal Nigam Varanasi 2015-16	b) 3.0 to 4.5 mtr B.G.L  Dismantling of old existing sewer including taking out the same from the trench removal and stacking properly at site, as per direction of Engineer-incharge of following sizes  250 mm dia  300 mm dia  600 mm dia		m m				245 294 445	0.00 2,446,000.00 2,935,600.00 0.00	

	RESERVED TO THE RESERVED TO TH	to a superior and a			FC Portio	n (Yen)	LC Portion	on (INR)	
	Items	Specification	Unit	Qty	Unit Price		Unit Price	Amount	Reference
Lump Sum	Supply of all labour, equipment and T&P for diversion of flow during dismentlling work and transportation of dismentiled old sewer pipe upto the		LS	1			200,000	200,000 00	
	required site as directed by the								
			CTIVIT	700					
	8. TRANSFER OF EXISTING HOUS Transfer of existing house connection to sewers by laying of new connecting sewer of 160 mm OD HDPE pipe in suitable gradient upto the MH / House connecting chamber and repair of existing chamber / sewer line as required including supply of all materials, labour and T&P required for	SE CONNECTIONS TO	No	10,533			8,000	84,264,206.32	
	a MICCOLL AMEQUE								
	9. MISCELLANEOUS	E. 16 1 6		41.050.000			017	28 276 450 00	
		Filling of sand for 1m for		41,850,000			917	38,376,450 00	
		Provision for shifting & r	Ls						
		n :: 6 T ! ! !	T. C.				2 142 000	3 142 000 00	
	Similar Project Exp	Provision for Land and st	LS	1			3,142,000	3,142,000.00	
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#### Varanasi District 2

				FC Portio	ın (Yen)	LC Porti	on (INR)	Reference	
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference	
[Direct Cost]									
Civil/Building work								-	
[Direct Cust]									
)ther works									
ost of sewer cleaning equipments, Fl	ushing Van	JIC	1				4,055,000 00		
Tiring of Godown and Site Office		рс	1				1,020,000 00		
Communication & Public Outrench		рс	I				3,500,000		
Environmental and Management Plan	(EMP)	рс	1				1,000,000		
Fovernance and Accountibility Action		ре	1				2,000,000		
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Sub-Total	- 1			-			11,575,000		
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# 4. Dinapur SIP & Bhagwanpur STP (Varanasi)

1 INR(India Rupee)=	1.57	JPY
1 US\$=	105.5	JPY

#### Summary - Rehabilitation of Dinapur and Baganpur STPs

Items	Specification	Unit	Qıy	FC Port	ion (Yen)	LCP	ortion (INR)	Reference
nems	Specification	Unit	QIS	Unit	Amount	Unit	Amount	Reference
Dinarpur STP								
Civil/ Architectural work		LS	ı				96,019,852	
Mechanical works		LS	1				300,757,200	
Electrical works		LS	ı				71,948,500	
Baguanpur STP		-						
Civil/ Architectural work		LS	1				12,012,407	
Mechanical works		LS	1				47,757,420	
Electrical works		LS	Ι				26,367,100	
<b>Fotal</b>							554,862,479	

Dinapur STP - Civil		374		FC Portio	on (Yen)	LC Portio	on (INR)	as we also
Items	Specification	Unit	Qty	Unit Price		Unit Price	Amount	Reference
								<u> </u>
Direct Cost]	<del>  </del>							
Civil/Building work>								
Dinapur STP-Civil		pc	1		-		96,019,852	
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				<b>†</b>				
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otal							96,019,852	
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		Items	Specification	Unit	One	PC Portion (Yen)	LC Porti	on (INR)	Reference
		(fems	appeniesous	Chit	Qty	Unit Price Amount	Unit Price	Amount	Kererence
		<civivbuilding work=""></civivbuilding>	A CHARLES	17310	1 - 10 1 1 1	U. S. C. C. S. J.	LE TOLE TO	Sale Sale	
		I. INLET CHAMBER							
EXCAVATION		1) Excevation Work							
JPJN (Var) SOR	1001	Decayation 0.0 - 1.5m deep in ordinary	soil.	m <sup>3</sup>	2,075.00		145.09	301,061,75	
	3002	Excavation 1.5 - 3.0m deep in ordinary	soil.	m <sup>1</sup>	1,667.00		182,79	304,710.93	
	3003	Excavation 3.0 - 4.5m deep in ordinary	lioa	m <sup>3</sup>	881.00		230 86	203,387 66	
		2) Disposal							
JPPWD(Var)SOR	Item7, Pg.30	Soil disposal		m <sup>3</sup>	3,534.00		123.85	437,685.90	
UPJN (Var) SOR	1005	3) Backfilling							
UPJN (Var) SOR	1006	Backfillig	0-1.5	m³	707,00		75,63	53,470.41	
			1,5-3,0	m <sup>3</sup>	328,00		94 60	31,028.80	
			3-4.5	m <sup>3</sup>	24.00		113.57	6,132.78	
UPJN (Var) SOR	1024	4) RC Concrete work							
DSR2013, CPWD	item5,34 1, pg 101	RC Concrete work	R.C.C. with cement, coarse sand and 20 mm - stone ballast 1-1-5.3 m t hearns, slubs, columns (considered M25)	m <sup>2</sup>	1,218.81		12,862.74	15,677,175.81	
		5) Lean Concrete							
UPPWD(Var)SOR	Item7. Pg 32	plain concrete	Concrete with 4cm gauge approved stone bullast, approved contact sand and cement in the proportion of 6-4-1 including supply of all materials labour and tools and plants etc.	TH'	110 69		4,600,00	509,180 57	
		6) Re-bar work							
Rate Analysis UPJN(Var) Matis Rate DSR Pattern		Re- bar Installation		ton	121.88		80,780,00	9,845,509.29	
		7. 7.		-				<u> </u>	
		7) Form work	Retaining walls, return						
DSR2013, CPWD	Item 4.3, pg86	Form work	walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	m <sup>2</sup>	3,911.82		334.50	1,308,503.09	
		8) Epoxy work							<del>,</del>
DSR2013, CPWD)	Item 13.52.2, pg.226		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	m²	2,674.17		239.30	639,929.58	
		9) Cement Painting							
JPPWD(Var)SOR	Item22, pg.51	cement painting	Finishing walls will water proof cement paint of approved make and quality on new work with two coat to give an even shade including supply of all material labour and T&P etc. required for proper	m²	2,177.06		42.00	91,436.64	
		10) Handrail installation							
OSR2013, CPWD	Item 10.26, pg.179	Handrail instalaltion		m	775.59		736.80	571,458.31	
		11) Structural steel							
PPWD(Var)SOR	Item.3, pg.38	structural steel installation		kg	315,000.00		72.00	22,680,000.00	
		12) Dismantling R.C.C. Or R.B. Work.							
UPJN (Var) SOR	1266	Dismantling R.C.C. Or R.B. Work,		m³	1,000		827	827,450.00	
		13) Rehabilitation							
RUIDP	16.6	Rehabilitation work		m²	30,000		564.00	16,920,000.00	

PARTY TO THE	THE TOTAL PARTY.		L S	0:	FC Portio			D-f	
	 ltems	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
		Surface prepartion, Filling of bug holes with Nitomortar FC/FCB, Nitoprime cost, 2mm thick Fosroc Polyurea WPE or Equivalent	m²	2,197				5,808,318,75	
	14) Building works Floor ht. 3.35 mtr. (office)		m²	675.0			19 950 00	13 466 250 00	
	 Every 0,3 mt. additional height of floor			673.0			19,930.00	13,400,230,00	
	 Every 0,3 mt. additional height of floor above normal floor height of 3,35 mt./ 2.90 mts.		m²				284		
	Considering average height increase of 1.5 m		m²	675					
	 Resisting Earthquake forces		m²	675			1,197	807,975.00	
	 Miscellaneous & Contingencie:		LS	1.0			4,572,374	4,572,373.89	
								0.00	
	Total							96,019,851.66	
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		- Committee of the Comm				1/C Portio	n (Yen)	LC Porti	on (INR)	
May Spill		liems	Specification	Unit	Qty	Unit Price		Unit Price	Amount	Reference
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		ltems	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
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#### Dinapur STP E&M

Items Specification			FC Portion (Yen)	LC Port	ion (INR)	
Items Specification	Unit	Qty	Unit Price Amount	Unit Price	Amount	Reference
Direct Cost]						
Mechanical/Electrical work>						
. Mechanical work	pc	1	<del>                                     </del>		300,757,200.00	
. Electrical work	pc	1			71,948,500.00	
	Pe				71,540,500.00	
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					372,705,700	
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Dinapur STP - Civil

		4		FC Portion (Yen)		LC Porti		
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
[Direct Cost]								
Civil/Building work>								
. Dinapur STP-Civil		pc	1				12,012,407	
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Total		-	<del> </del>	+		1	12,012,407	
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		lama.	Show House	1166	0	FC Portion (You)	LC Posts	ion (INR)	Reference
		Items	Specification	Unit	Qıy	Unit Price Amount	Unit Price	Amount	Keterence
		<clvh building="" work=""></clvh>		1 6	100		Wary in the		
IPJN (Var) SOR	3001	1) Excavation Work							
	3002	Excavation 0.0 - 1.5m deep in ordin	uy soil	m²			145 09	0.00	
	3003	Excavation 1.5 - 3.0m deep in ordin	uy soil	m³			182 79	0,00	
		Excavation 3.0 - 4.5m deep in ordin	ny soil	$m^3$			230 86	0.00	
		2) Disposal							
		Soil disposal		m³			123,85	0,00	
									tana a
		3) Backfilling							
		Buckfillig	0-1,5	m'			75.63	0.00	
			1.5-3.0	m <sup>2</sup>			94 60	0 00	
			3-4.5	$m^3$			113.57	0,00	
		4) RC Concrete work							
		RC Concrete work	sund and 20 nun stone bullast 1.1.5.3 in t beams, slabs, columns	tn'			12,862 74	0.00	
								-	
		5) Lean Concrete plain concrete	Concrete with 4cm, gauge approved atone ballast, approved coarse sand and coment in the	m'			4,600.00	0.00	
		6) Re-bai work							
			<del> </del>	4		-	VA 790 00	0,00	
	<del>-</del>	Re- bar Installation		ton			80,780.00	0.00	
			<u> </u>						
		7) Form work	Retaining walls, return						
		Form work	walls, walls (any thickness) including attached pilasters,				334.50	0.00	
		8) Epoxy work							
		Epoxy painting	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, atc. complete.	m²	ī		239.30	0.00	
		9) Cement Painting							
		cement painting	proof cement paint of approved make and quality on new work with two coat to give an even shade including supply of all material labour and T&P etc. required for proper completion of the work	m²			42.00	0.00	
		10) Handrail installation	, , , , , , , , , , , , , , , , , , , ,						
		Handrail instalaltion		m			736.80	0.00	
		11) Structural steel							
		structural steel installation		kg			72.00	0.00	
				-					
		12) Dismantling R.C.C. Or R.B. Wo	rk.					1	
		Dismantling R.C.C. Or R.B. Work		m <sup>3</sup>			827	0.00	
		13) Rehabilitation							
RUIDP	16.6	Rehabilitation work		m <sup>2</sup>	7,000		564,00	3,948,000.00	
Quotation	10,0	ACHEVARIBULI WULK	Surface prepartion, Filling of bug holes with Nitomortar FC/FCB, Nitoprime coat, 2mm thick Fosroc Polyurea WPE or Equivalent.	m m²	2,834		2,643.75	7,492,387.50	
		14) Building works	Squrratota					1	
		Floor ht. 3.35 mtr. (office)		m <sup>2</sup>		1	19,950.00	0.00	

Every 0.3 mt. additional height of floor above normal floor height of 3.35 mt./2.90 mts.  Considering average height increase of 1.5 m  Resisting Earthquake forces  Miscellaneous & Contingencies  Total		m² m² m² %	5.0	Unit Price	Amount	Unit Price  284  1,418  1,197  11,440,388	Amount  0.00  0.00  572,019.38  0.00  12,012,406.88	Reference
floor above normal floor height of 3.35 mt./ 2.90 mts. Considering average height increase of 1.5 m Resisting Earthquake forces  Miscellaneous & Contingencies		m <sup>2</sup>	5.0			1,418	0.00 572,019.38 0.00	
3.35 mt./ 2.90 mts.  Considering average height increase of 1.5 m  Resisting Earthquake forces  Miscellaneous & Contingencies		m <sup>2</sup>	5.0			1,418	0.00 572,019.38 0.00	
Resisting Earthquake forces  Miscellaneous & Contingencies		m²	5.0			1,197	0.00 572,019.38 0.00	
Resisting Earthquake forces  Miscellaneous & Contingencies		m²	5.0			1,197	0.00 572,019.38 0.00	
Miscellaneous & Contingencies			5.0				572,019.38	
		%	5.0			11,440,388	0.00	
		%	5.0			11,440,388	0.00	
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Total								
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Total							12,012,406 88	
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#### Bhaguanpur STP E&M

	Estable Published Newscan and Patricks			FC Portio	n (Yen)	LC Porti	ion (INR)	distribution of the
Items I I I I I I I I I I I I I I I I I I I	Specification	Unit	Oty	Unit Price	Amount		Amount	Reference
[Direct Cost]								
Content Cost    Section   Cost   Co		-						
1. Mechanical work			1				47,757,420,00	
2. Electrical work		pc	1					***************************************
2. LIEUTICAI WOFK		рc	1				26,367,100.00	
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The state of the s				-				
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		-						
		-						
							74,124,520	

### 5. Ramna STP (Varanasi)

#### Summary - Ramnar STP

Items Spe	cification	Unit	0	FC Port	ion (Yen)	LC P	LC Portion (INR)	
nems Spe	Citication	Onn	Qty	Unit	Amount	Unit	Amount	Reference
Civil/ Architectural work 501	MLD	LS	1				729,489,869	
Mechanical work	11120	LS	1				208,657,320	
Electrical work		LS	2				20,030,142	
Cost of sewer cleaning equipments, Flushin	ig Van	LS	1				1,000,000	
Hiring of Godown and Site Office		LS	1				1,500,000	
Communication & Public Outreach		LS	I				1,000,000	
Environmental and Management Plan (EMI	P)	LS	1				67,380,000	
Governance and Accountibility Action Plan		LS	1				500,000	
		LŠ	1					
		LS	1					
		LS	1					
Total							1,029,557,331	
			1		The second			

#### 10 MLD STP AND APPURTENANCES WORKS (Design Capacity 10MLD by A2O)

				FC Portio	n (Yen)	LC Porti	on (INR)	Black	
Items	Specification	Unit	Qty.	Unit Price	Amount	Unit Price	Amount	Reference	
[Direct Cost]									
<civil building="" work=""></civil>									
1. INLET CHAMBER		рс	1		0		1,251,449	H	
2. Screen Chamber		рс	1		0		1,999,504		
3. Detritor Chamber		рc	1		0		5,398,533		
4. Detritor Inlet & Outlet Channel		pc	1		0		4,745,178		
5. Distribution Chambers		рс	1		0		3,791,258		
6. Primary Settling Tank		рc	1		0		44,615,070		
7.Secondary Settling Tank		рc	1		0		45,304,356		
8. Anaerobic Tank		pc	ı		0		19,707,491		
9. Anoxic Tank		рс	1		0		33,273,322		
10. Aeration Tank		рc	1		0		60,741,362		
11. Raw Sludge Sump		pc	1		0		2,665,235		
12. Return Sludge Sump		pc	1		0		3,853,410		
13. Thickened Sludge Sump		рс	1	<del>                                     </del>	0	<del></del> -	2,547,949		
14. Digested Sludge Sump		pc	1		0		2,903,119		
15. Treated Effluent Pumping Station		pc	1		0		5,102,207		
16. Sludge Drying Bed		pc	1	1	0		54,403,768		
17. Sludge Digester		pc	1	<del> </del>	0		19,132,112		
18. Gas Holder and Moisture Trap Cha	mber	рс	1	-	0		10,548,931		
19. LAB EQUIPMENT & ADMINIST		рс	1		0		1,372,968		
20. PIPE CONNECTING TO DIFFER		рс	1		0		7,632,567		
21. CHLORINATION & DE-CHLORI		рс	1	-	0		10,253,000		
22. PUMP HOUSE WITH CHLORON		рс	1	-	0				
23 Guard Room	OME		1	+			509,664 1,102,285		
24. RISING MAIN FROM TUBEWEL	LTOOHTEWAT	pc	1	+	0		812,782		
25. SOIL INVESTIGATION OF STP S		pc	1	+	0		100,000		
	511E	рс	1	+	0		<del> </del>		
26. VEHICLES	27721	рc			0		1,500,000		
27. HIRING OF TEMPORARY GODO		pc	1	<del> </del>	0		246,240		
28. OFFICE CUM LABORATORY B		pc	1	-	0		8,694,000		
29. 250 KL RCC OVER HEAD TANK		pc	1		0		2,800,000		
30 100 KL RCC OVER HEAD TANK		рc	1		0		1,500,000		
31, EFFLUENT CHANNEL BETWEE		pc	1	-	0		1,313,064		
32, EFFLUENT DISPOSAL CONDU		pc	1	ļ	0		127,664,929		
33. DG PLATEFORM & CONTROL I	ROOM	pc	1		0		7,013,455		
34. TRANSFORMER YARD		pc	1		0		679,713		
35, METERING/HT ROOM		pc	1		0		2,268,723		
36. CONTROL ROOM BUILDING		pc	1		0		4,251,503		
37. STAFF QUARTER		рc	1		0		5,692,500		
38. CAMPUS ROAD		рc	1		0		85,035,600		
39. OUTFALL STRUCTURE		р¢	1	1	0		1,191,825		
40. Pipe Protection Wall		pc	1		0		302,813		
41. RAMP FOR ENTERING IN PLAN	NT	рc	1		0		5,968,727		
42 EARTHEN BUNDH		рс	1		0		55,740,375		
43. PIPE PROTECTION ALONG RIV	ER GANGA	рс	1		0		675,517		
44. Miscellaneous Works at MPS Nagr	wa and Rising Main	рс	1		0		4,828,364		
45. Boundary Wall		рс	1		0		68,355,000		
Total							729,489,869		
							, , , ,		
			-						
		L				L			

		100			FC Portion (Yen)	LC Porti	on (INR)	D 6
	Items	Specification	Unit	Qty	Unit Price Amount	Unit Price	Amount	Reference
ivil/Building work>		SAN DESCRIPTION OF THE SECOND				the second		
THE DATE OF THE PARTY OF THE PA	1. INLET CHAMBER							
	1) Excavation Work							
	Excavation	00.00 01.00 0.0	m <sup>3</sup>	60.03		184.79	11,092,94	
	<del></del>	00,00m - 01,50m B.G.	m	00.03		100.7.	11,092,94	
	2) Plain Concrete work		3	5.42		cartait	22 001 25	
	Plain concrete		mi <sup>3</sup>	3.75		6,364.94	23,881.25	
	3) RC concrete work	0.0						
	RC Concrete	Raft Foundation	m <sup>3</sup>	18,76		12,715,80	238,548.41	
		R O.O Columns	m³	2.40		12,715,80	30,517,92	
		Floor Slab	m <sup>3</sup>	12.65		12,715.80	160,829.44	
		ROC Walls	m <sup>3</sup>	17.36		12,715,80	220,746.29	
		¥-7	m <sup>3</sup>	12.04		12,715.80	153,098.23	
		R.O.C. Stairs	m³	3.60		12,715.80	45,776.88	
	4) Form work/Shuttering							
	Form work	Ratt Foundation	m²	19,38		196.45	3,807.20	
	TOTAL WORK		m'	3.24		453.35	1,468.85	
		R.C.C.Columes		13.10		401.65	5,263.22	
		Ploor Slab	m*				ļ <del></del>	
		X-X	m	22.05		360 80	7,955.64	
		УУ	m²	15.40		360 80	5,556.32	
		R.C.C. Stairs	m²	3.60		395.65	1,424.34	
	5) Re-har work							
	Raft @1.0%		kg	1,473		70.96	104,496.12	
	Wall @0.125%		kg	288		70,96	20,470.32	
	Slab @ 0,6%		kg	765		70,96	54,302.34	
	Columns @2%		kg	377		70.96	26,736,75	
	6) Epoxy painting work							
	Epoxy painting		m <sup>2</sup>	70,0		121.15	8,480.50	
		-	111	70,0		121,12	0,480.,70	
	7) Foot step installation	1		12		225	2 700 00	
	CI foot steps (PVC encapsulated)		No	12		225	2,700.00	
	8)Railing isntallation							
	Providing and fixing 1.00m high		m	22.6		1,960	44,296.00	
	Railing made up of of 25mm  9) Weir plate installation							
	Supply and fixing of 8mm thick			-			4	
	FRP weir plate		m <sup>2</sup>	4.8		15,000	72,000.00	
	10) Miscellanious work							
	Misc Unforeseen items		Ls	1.0		8,000	8,000.00	
	ivide Officiescon Items		1_3	1.0		0,000	5,000,00	
	Tota						1,251,448.96	
	2. Screen Chamber							
	1) Excavation Work							
	Excavation	00.00m - 01.50m B.G.	m <sup>3</sup>	100.50		184.79	18,571.40	
	2) Plain Concrete work							
	Plain concrete		m <sup>3</sup>	6.70		6,364.94	42,645.10	
	3) RC concrete work	Raft Foundation	m <sup>3</sup>	22.50		12.715.80	425,979.30	
	RC Concrete	R.C.C Columns	m <sup>3</sup>	33.50 5.76	+	12,715.80 12,715.80	73,243.01	
		Floor Slab	m m <sup>3</sup>	17.68		12,715.80	224,815.34	
		RCC Walls x-x	m m <sup>3</sup>	20.40	-	12,715.80	259,402.32	
		xy	m m <sup>3</sup>	2.70		12,715.80	34,332.66	
		R.C.C. Stairs	m <sup>3</sup>	3.60	<del>                                     </del>	12,715.80	45,776.88	
		Piatform	m <sup>3</sup>	4.80	<del> </del>	12,715.80	61,035.84	
	4) Form work/Shuttering	1 10HA	111	7.00		12,710.00	01,035.04	
	Form work	Raft Foundation	m <sup>2</sup>	16.90		196.45	3,320.01	
		R.C.C Columns	m <sup>2</sup>	57.60		453.35	26,112.96	
		Floor Slab	m <sup>2</sup>	56.62		401.65	22,741.42	
		RCC Walls	m²	103.20		360.80	37,234.56	
		x-x x-y	m <sup>2</sup>	14.40	<del> </del>	360.80	5,195.52	
		R.C.C. Stairs	m m²	24.00	<del>  </del>	395.65	9,495.60	
		Platform	m m <sup>2</sup>	16.00		401.65	6,426.40	
	5) Re-bar work	LMIOIM	m	10.00	1	TU1.UJ	0,720.40	
1.	Raft @1.0%		kg	2,630		70.96	186,600.22	
	Wall @0.125%		kg	3,627		70.96	257,341.20	
	Slab @ 0.6%		kg	1,228		70.96	87,161.80	
	16 1-1		kg	904	i	70.96	64,168.20	
	Columns @2%  6) Epoxy painting work							

			C	11.4	0	FC Portio	n (Yen)	LC Portio	on (INR)	D. 6
		Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
		7) Foot step installation CI foot steps (PVC encapsulated)		No	12			225	2,700.00	
		8)Railing isntallation		NO				243	2,700.00	
		Providing and fixing 1.00m high		m	42.0			1,960	82,320.00	
		Railing made up of of 25mm 10) Miscellanious work								
		Misc Unforeseen items		Ls	1.0			9,800	9,800.00	
		Total				-			1,999,503.94	
						1				
		3. Detritor Chamber								
		1) Excavation Work		m <sup>3</sup>	248.43	<del></del>		184.79	45,907.38	· · · · · · · · · · · · · · · · · · ·
		Excavation 2) Plain Concrete work	00 00m - 01 50m B G L	m	240.43			104.77	43,507.38	
		Plain concrete		m <sup>3</sup>	14.79	<del>                                     </del>		6,364.94	94,137.46	
		3) RC concrete work		ш	14.75	-		0,304.74	34,137.40	
	0.8000	RC Concrete	Raft Foundation	m <sup>3</sup>	73.96			12,715.80	940,460.57	
			R.C.C Columns	m <sup>3</sup>	7,68	<b> </b>		12,715.80	97,657.34	
-			Floor Slab	m <sup>3</sup>	49.93			12,715.80	634,874.46	
		W	RCC Walls x-x	m <sup>3</sup>	18.96			12,715.80	241,091.57	
			x-y	m³	17.04			12,715.80	216,677.23	
AND WITH			Platform for inspection	m <sup>3</sup>	8.52			12,715.80	108,338.62	
19		4) Form work/Shuttering								
		Form work	Raft Foundation	m²	75.69			196.45	14,869.30	
		AND THE STREET STREET STREET STREET	R.C.C Columns	m <sup>2</sup>	11.20			453,35	5,077.52	
		Maria de la compania	Floor Slab	m <sup>2</sup>	51.20			401.65	20,564.48	
		No. 10 Wes	x-x	m²	24.00			360.80	8,659.20	
			x-y Platform for inspection	m <sup>2</sup>	21.60			360.80	7,793.28	
			Plactorin for inspection	m²	8.64	<del> </del>		401.65	3,470.26	
		5) Re-bar work		1	£ 80.6	-		70.96	411 069 72	
		Raft @1.0%		kg	5,806 3,533	-		70.96	411,968.73 250,657.02	
		Wali @0.125% Slab @ 0.6%		kg kg	2,753			70.96	195,338.68	
		Columns @2%	1912-2014 (SEE	kg	1,206		-	70.96	85,557.59	
		6) Epoxy painting work			1,200	+		70.50	03,337.33	
		Epoxy painting		m2	85.20	1		121,15	10,321.98	
		7) Foot step installation								
		CI foot steps (PVC encapsulated)		No	10.00			225.00	2,250.00	
		8)Railing isntallation								
		Providing and fixing 1.00m high		m	96,00			1,960.00	188,160.00	
	,	Railing made up of of 25mm  9) Weir plate installation	-						<del> </del>	
		Supply and fixing of 8mm thick		2			-			
1000		FRP weir plate		m <sup>2</sup>	25.0	ļ		15,000	375,000.00	
		Supply and fixing of 8mm thick FRP Deflector plate		$m^2$	4.8			16,500	79,200.00	
		10) Gate installation						<del></del>	<del>                                     </del>	
		Supply & fixing of 1.5mx1.5m CI		Ma	3.0	<del> </del>		450,000	1,350,000.00	
		gates with all accessories.		No	3.0			430,000	1,330,000.00	
		11) Miscellanious work				ļ	-	10.500	10,500.00	
		Misc Unforeseen items		Ls	1.0		<u> </u>	10,500	10,500.00	
									5 200 522	
		Total					-		5,398,533	
	-	4. Detritor Inlet & Outlet Channel				+				
		1) Excavation Work		· · · · · · ·	<b></b>	-	<u> </u>			
		Excavation	00.00m - 01.50m B.G.	m <sup>3</sup>	95.40	<u> </u>		184.79	17,628.97	
		2) Plain Concrete work	55.00ш — 01.50ш В.С.		1				,-20.7	
		Plain concrete		m <sup>3</sup>	6.30	1		6,364.94	40,099.12	
		3) RC concrete work								
-		RC Concrete	Raft Foundation	m³	27.44	1		12,715.80	348,921.55	
	-		R.C.C Columns	m³	13.44			12,715.80	170,900.35	
			Fioor Slab	m <sup>3</sup>	36.00			12,715.80	457,768.80	
			RCC Walls x-x	m <sup>3</sup>	72.00			12,715.80	915,537.60	
			x-y	m <sup>3</sup>	7.20			12,715.80	91,553.76	
			Platform for inspection	m <sup>3</sup>	30.00			12,715.80	381,474.00	

LE AND	Items	Specification	Unit	Ow	FC Portion	n (Yen)	LC Porti	on (INR)	Reference
	Henry	apecinication	Chit	Qty	Unit Price	Amount	Unit Price	Amount	Ketetence
	4) Form work/Shuttering								
	Form work	Raft Foundation	m²	47,04			196,45	9,241.01	
		P. C.C Columns	m²	112.00			453.35	50,775,20	
		Floor Slab	m²	137.20			401.65	55,106,38	
		RCC WRITE	m²	480.00			360.80	173,184 00	
		1:-7	m²	48.00			360.80	17,318,40	
 -		Platform for Inspection	m²	240,00	1		401.65	96,396.00	
 	5) Re-bar work				-				
<del>                                     </del>	Raft@1.0%		kg	2,154	1		70.96	152,845,08	
 	Wall @0.125%		kg	7,772	-		70.96	551,445.43	
	Slab @ 0.6%		kg	3,109	-		70.96	220,578.17	
 				2,110	-		70,96	149,725,79	
 -	Columns @2%		kg	*,110	-		70.50	149,723,79	
	6) Proxy painting work			212 (()			121.16	27 700 00	
 -	Epoxy painting		m2	312.00			121,15	37,798.80	
 -	7) Foot step installation			-				1.000.00	
	C1 foot steps (PVC encapsulated)		No	8 00			225,00	1.800.00	
	8)Ruiling isntallation								
	Providing and fixing 1 00m high Railing made up of of 25mm		m	408,00		. 1	1,960,00	799,680.00	
	11) Miscellanious work								
 -	Misc Unforeseen items		Ls	1.0	+		5,400	5,400,00	
 <del> </del>	Misc Unioreseen nems		12	1,0				3,400,00	
 					-			4.746.170.41	
-	Total							4,745,178.41	
					1				
	5. Distribution Chambers								
 	1) Excavation Work								
	Excavation	00 00m = 01,50m B,G,	m'	40,50			184.79	7,484.00	
	2) Plain Concrete work								
	Plain concrete		m	2.70			6,364.94	17,185,34	
	3) RC concrete work		المراس المراس المراس						
	RC Concrete	Raft Foundation	m³	0.98			12,715.80	12,461.48	
		R.C.C Columns	m <sup>4</sup>	0.80	1		12,715.80	10,172.64	
		Floor Slab	m³	12.00			12,715.80	152,589.60	
		RCC Walls x~x	m <sup>3</sup>	14.40			12,715.80	183,107.52	
		x-y	m <sup>3</sup>	10.80			12,715.80	137,330.64	
 	4) Form work/Shuttering								
 <u> </u>	Form work	Raft Foundation	m²	1,68			196.45	330.04	
		R.C.C Columns	m <sup>2</sup>	5.20	1		453.35	2,357.42	
 <del> </del>		Floor Slab	m <sup>2</sup>	38.80	+		401.65	15,584.02	
-		RCC Walls		*	+				
-		X-X	m <sup>2</sup>	72.00	<del>                                     </del>		360.80	25,977.60	
1		x-y	m <sup>2</sup>	54.00			360.80	19,483.20	
	5) Re-bar work							ļ	
 	Raft @1.0%		kg	76.93			70.96	5,458.75	
	Wall @0.125%		kg	2,472.75			70.96	175,459.91	
	Slab @ 0.6%		kg	565.20			70.96	40,105.12	
	Columns @2%		kg	125.60			70.96	8,912.25	
	6) Epoxy painting work								
	Epoxy painting		m2	60.00			121.15	7,269.00	
	7) Foot step installation								
	CI foot steps (PVC encapsulated)		No	10.00			225.00	2,250.00	
	8)Railing isntallation								
	Providing and fixing 1.00m high			22.60	1		1.0/0.00	4/ 20/ 22	
 	Railing made up of of 25mm		m	22.60			1,960.00	44,296.00	
	9) Weir plate installation								
	Supply and fixing of 8mm thick		m²	4.8			15,000	72,000.00	
	FRP weir plate		ш	7.5	-			12,000.00	
	10) Miscellanious work								
	Misc Unforeseen items		Ls	1.0			8,000	8,000.00	
	<del></del>								
		ļ l						+	
	sub-Total							947,814.53	
	sub-Total Total		Ls	4			947,815	947,814.53 3,791,258.12	4 chambers

	Items	Specification	Unit	Qty	FC Portion		LC Porti	(()	Reference
	ACIIS	Specification	Onn	49	Unit Price	Amount	Unit Price	Amount	Kererence
	6. Primary Settling Tank								
	1) Excavation Work								
	Excavation	00.00m - 01.50m B.G.	m³	1.484.70			184.79	274,357.71	
		1.50m - 3.00m B.G.L.	m <sup>3</sup>	481.06			231.98	111,596.30	
	2) Plain Concrete work	1.30m = 3.00m B.U.L.	113	101.00			201.70	112,070.00	
	Plain concrete		m³	96.21	l		6,810.49	655,237.24	<del></del>
			m	90.21	-		0,810.49	033,231.24	
	3) RC concrete work	Raft foundation	3	101.05			10.515.00	( 117 020 04	
	RC Concrete	Base Slab	m <sup>3</sup>	481.06			12,715.80	6,117,030.96	<del>.</del>
			m <sup>3</sup>	380.46			12,715.80	4,837,857.42	
		RCC Walls Main wall	m <sup>3</sup>	114.79			12,715.80	1,459,698.36	
		Launder Wall	m <sup>3</sup>	61.83			12,715.80	786,175.80	
		Feed Well	m <sup>3</sup>	11.31			12,715.80	143,830.96	
	4) Form work/Shuttering								
	Form work	Raft foundation	m <sup>2</sup>	24.50			196.45	4,813.03	
		Base Slab	m <sup>2</sup>	380,46			401.65	152,811.89	
		RCC Walls Main wall	m²	765.29			360.80	276,117.99	
		Launder Wall	m <sup>2</sup>	412.18			360.80	148,713.79	
		Feed Well	m <sup>2</sup>	1.20			214.55	257.46	1.1.1
-	5) Re-bar work		ш	1,20	<del> </del>				
			l.c	27762.01			70,96	2,679,565.27	
	Raft @1.0%		kg	37763.01			70.96	1,229,756,40	
	Wall @0.125%		kg	17330.91					
	Slab @ 0.6%		kg	532.76	ļ	ļ	70.96	37,803.09	
	6) Epoxy painting work				ļ			100 000 00	
	Epoxy painting		m2	907.20			121.15	109,907.28	
	Epoxy painting	wall	m2	382.65			121,15	46,358.05	
	7) Foot step installation								
	CI foot steps (PVC encapsulated)		No	12.00			225.00	2,700.00	
	8)Railing isntallation								
	Providing and fixing 1.00m high			110.60			1,960.00	216,776.00	
	Railing made up of of 25mm		m	110.00			1,900.00	210,770.00	
	9) Weir plate installation								
	Supply and fixing of 8mm thick		m <sup>2</sup>	106.8			15,000	1,601,400.00	
	FRP weir plate Supply and fixing of FRP Scum				ļ				
	plates plates		m²	343.29			3,000	1,029,870.00	
	Fixing of 1.0m X 1.0 m CI Sluice		No	1.0			380,000	380,000.00	
	gates for proper operation of the		140	1.0			300,000	300,000.00	
	10) Miscellanious work  Misc Unforeseen items		Ls	1.0			4,900	4,900,00	
	Nisc Onforeseen neins		LS	1.0			4,500	4,500.00	
	Sub-Total					0		22,307,535.00	
	Total		Ls	2			22,307,535	44,615,070.00	2 tanks
	7. Secondary Settling Tank								
	1) Excavation Work								
	Excavation	00,00m - 01,50m B.G.	m <sup>3</sup>	1,484.70			184.79	274,357.81	
		1.50m - 3.00m B.G.L.	m <sup>3</sup>	1,443.17			231.98	334,787.16	
	2) Plain Concrete work	,						1	
	Plain concrete		m <sup>3</sup>	96.21	†		6,810.49	655,237.24	
	3) RC concrete work		<del></del>	1	<u> </u>		<del>                                     </del>	, , , , ,	
	RC Concrete	Raft foundation	m <sup>3</sup>	481.06	-	-	12,715.80	6,117,030.96	
	IC Collecte	Base Slab	m m³	380.46	+	<del> </del>	12,715.80	4,837,857.42	
		RCC Walls Main wall	m m <sup>3</sup>	<del> </del>		-		1	
		Launder Wall		114.79			12,715.80	1,459,698.36	
			m <sup>3</sup>	61.83	1		12,715.80	786,175.80	
		Feed Well	m <sup>3</sup>	18.85	1	-	12,715.80	239,718.26	
	4) Form work/Shuttering					<u> </u>			
	Form work	Raft foundation	m <sup>2</sup>	24.50			196.45	4,813.03	
		Base Slab	m <sup>2</sup>	380.46			401.65	152,811.89	
		RCC Walls Main wall	m <sup>2</sup>	765.29			360.80	276,117.99	
		Launder Wall	m <sup>2</sup>	412.18			360.80	148,713.79	
			m <sup>2</sup>	1.20		1	214.55	257.46	
		Feed Well			1	1	1	1	
	5) Re-bar work	Feed Well		277(2.01	1	<del> </del>	70.00	2 670 666 27	
	Raft @1.0%	Feed Well	kg	37763.01 17330.91			70.96 70.96	2,679,565.27 1,229,756,40	
		Feed Well		37763.01 17330.91 887.93	1		70.96 70.96 70.96	2,679,565.27 1,229,756.40 63,005.15	
	Raft @1.0% Wall @0.125%	Feed Well	kg kg	17330.91	1		70.96	1,229,756.40	

frems	Specification	Unit	Qiy	FC Portio	m ( ) en)	LC Porti	on (INR)	Reference
пств	Specification	Onn	Oly	Unit Price	Amount	Unit Price	Amount	Reference
7) Poot step installation								
C1 foot steps (PVC encapsulated) 8)Railing isntallation		No	12.00			225.00	2,700.00	
Providing and fixing 1 00m high			110.00			1,960 00	216 776 00	
Railing made up of of 25mm		13)	110,60			1,960 00	216,776 00	
 9) Weir plate installation Supply and fixing of 8mm thick				-				
FRP weir place		m²	106 76			15,000	1,601,400 00	
Supply and fixing of FRP Scum		m²	343.29			3,000	1,029,870.00	
plates plates Fixing of 1 0m X 1 0 m Cl Shuce		10	500 47			*18	1,022,011	
gates for proper operation of the		No	1.0			380,000	380,000,00	
10) Miscellanious work								
Misc Unforeseen items		Lx	1.0			10,000	10,000.00	
 Sub-Total				-	0		22,652,178.22	
Total		Ls	2		- 4	22,652,178	45,304,356,44	2 tanks
							,	2 iding
8, Annerobic Tank				-				-
 1) Excavation Work			-					
Excavation Work	00 00m - 01 \$0 - 1 61	m'	441 00		-	184.79	81,492.39	
	00 00m = 01 50m B G I	m m	404 63			231,98	93,864,91	
 	01 50m - 03 00m B G I	m <sup>3</sup>	369 00			291,27	107,478.63	
	03 00m - 04 50m B G 1	m <sup>3</sup>				340,09	37,877,52	
 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	04.50m = 06.00m B.G.1	mi'	111,38		-	540,09	27,877.52	
2) Dramage work Making all necessary arrangements	The state of the s							
for lowering down the water table to 6.0m BGL and bailing out the water		$\mathbf{m}^{\beta}$	445,5			79.39	35,368.25	
from excavated sump well with the help of diesel engine.								
3) Plain ('oncrete work								
Plain concrete	B.G L	$m^3$	24.60			7,128,73	175,366,83	
4) RC concrete work								
RC Concrete	Reft foundation	m <sup>5</sup>	123.00			12,715.80	1,564,043.40	
	RCC Walis	$m^3$	22.18			12,715.80	281,985.58	
		$m^3$	156.02			12,715.80	1,983,969.98	
	Base Slab for Anaerobic	m <sup>3</sup>	73.80			12,715.80	938,426.04	
	Path way	m³	58.05			12,715.80	738,152.19	
5) Form work/Shuttering								
Form work	Raft foundation	m²	246.00			196.45	48,326.70	
	RCC Walls	m <sup>2</sup>	73.92			360.80	26,670.34	
		m²	520.08			360.80	187,644.86	
	Base Slab for Anaerobic	m <sup>2</sup>	246.00	İ		401.65	98,805.90	
	Path way	m <sup>2</sup>	296.70			196.45	58,286.72	
 6) Re-bar work		111	270,70			170.45	30,200.72	
 Raft @1.0%		le o	10150 33			70.96	734,425,06	
		kg	10350.23	_			<del> </del>	
 Wall @0.125%		kg	17485.88			70.96	1,240,752.23	
Slab @ 0.6%		kg	10350.23			70.96	734,425.06	
 7) Epoxy painting work								
Epoxy painting		m2	200.00			121.15	24,230.00	
· · · · · · · · · · · · · · · · · · ·	wall	m2	528.00			121.15	63,967.20	
 Epoxy painting		m2	66.00			121.15	7,995.90	
8) Foot step installation								
CI foot steps (PVC encapsulated)	Lead and	No	22.00			225.00	4,950.00	
9)Railing isntallation								
Providing and fixing 1.00m high		m	294.00			1,960.00	576,240.00	
 Railing made up of of 25mm							,	
 10) Miscellanious work			1.0			0.000	0.000.00	
Misc Unforeseen items		Ls	1.0			9,000	9,000.00	
				-			0.055 =	
Sub-Total					0		9,853,745.69	
Total		Ls	2			9,853,746	19,707,491.38	2 tanks
 9. Anoxic Tank			······································					
 <del> </del>								
 1) Excavation Work		3	1.000.00			104.50	10/ 2/0 22	
	00.00m 01.50m B.G.I	m <sup>3</sup>	1,008.00			184.79	186,268.32	
	01.50m - 03.00m B.G.I	m <sup>3</sup>	964.88			231.98	223,831.70	

SIPLE 1		C. C.	11.	0	FC Portio	n (Yen)	LC Porti	on (INR)	Reference
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Keterence
		03.00m - 04.50m B.G.L	m <sup>3</sup>	922.50			291.27	268,696.58	
		04.50m - 06.00m B.G.L	m <sup>3</sup>	176.18			340.09	59,915.36	
	2) Drainage work		-						
	Making all necessary arrangements		-						~~
	for lowering down the water table to								
	6.0m BGL and bailing out the water		$m^3$	1,057.1			79.39	83,919.20	
	from excavated sump well with the								
	help of diesel engine.  3) Plain Concrete work								·
	Plain concrete	D.C.I.	m <sup>3</sup>	61.50	<del> </del>		7,128.73	438,417.07	
		B.G.L		01.30			7,126.73	436,417,07	
	4) RC concrete work	Raft foundation	3	205.50	1		12.515.80	2.010.100.50	
	RC Concrete	RCC Walls	m <sup>3</sup>	307.50			12,715.80	3,910,108.50	
		ROO Majis	m <sup>3</sup>	56.06			12,715.80	712,898.61	
			m <sup>3</sup>	151.30			12,715.80	1,923,849.68	
		Base Slab for Anaerobic	m <sup>3</sup>	184.50			12,715.80	2,346,065.10	
		Path way	m <sup>3</sup>	62.10			12,715.80	789,651.18	
	5) Form work/Shuttering								
	Form work	Raft foundation	m <sup>2</sup>	307.50			196.45	60,408.38	
		RCC Walls	m²	186.88			360.80	67,426.30	
			m²	504.32			360.80	181,958.66	
		Base Slab for Anaerobic	m²	615.00			401 65	247,014.75	
		Path way	m <sup>2</sup>	317.40			196,45	62,353,23	
	6) Re-bar work								
	Raft @1.0%		kg	19358.10			70.96	1,373,600.44	
	Wall @0.125%		kg	20347.20	<del> </del>		70.96	1,443,784.41	
	Slab @ 0.6%		kg				70.96	1,373,600.44	
				19358.10			70.50	1,575,000.44	,
	7) Epoxy painting work			560.00			121,15	67,844.00	
	Epoxy painting		m2	560.00	-				
	Epoxy painting	wall	m2	512.00	<b>_</b>		121.15	62,028.80	
	Epoxy painting		m2	179.20			121.15	21,710.08	
	8) Foot step installation							-	
	CI foot steps (PVC encapsulated)		No	22.00		_	225,00	4,950.00	
	9)Railing isntallation								
	Providing and fixing 1.00m high		m	366.00			1,960.00	717,360.00	
	Railing made up of of 25mm 10) Miscellanious work					<b>_</b>			
			Τ.	1.0			9,000	9,000.00	
	Misc Unforeseen items		Ls	1.0	-	-	9,000	3,000.00	
				<u> </u>	<del></del>	ļ		16 626 660 70	
	Sub-Total					0		16,636,660.79	
	Total		Ls	2		ļ	16,636,661	33,273,321.58 2	tanks
					ļ				
	10. Aeration Tank				ļ	ļ			
	1) Excavation Work								
	Excavation	00.00m - 01.50m B.G.I		2,142.00			184.79	395,820_18	
		01.50m - 03.00m B.G.I		2,085.38			231.98	483,765.29	
		03.00m - 04.50m B.G.L	m³	2,029,50			291.27	591,132.47	
		04.50m - 06.00m B.G.I	_	263.25			340.09	89,528.69	
	2) Drainage work								
	Making all necessary arrangements								
	for lowering down the water table to		,						
	6.0m BGL and bailing out the water		m <sup>3</sup>	2,237.6			79 39	177,645.05	
i	from excavated sump well with the help of diesel engine.								
-	3) Plain Concrete work					1			
	Plain concrete	B.G.L.	m <sup>3</sup>	135.30	1	<del> </del>	7,128.73	964,517.55	
	4) RC concrete work	2.0 2	***	1	+		,		
	RC Concrete	Raft foundation	m <sup>3</sup>	676.50	<del> </del>	<del> </del>	12,715.80	8,602,238.70	
	IC Concrete	RCC Walls	m m <sup>3</sup>	123.23	+	+	12,715.80	1,566,942.60	
				-		<del> </del>			
		Base Slab for Anaerobic	m <sup>3</sup>	148.93		+	12,715.80	1,893,789.53	
			m <sup>3</sup>	405.90	<b></b>	ļ	12,715.80	5,161,343.22	
		Path way	m <sup>3</sup>	70.20	1		12,715.80	892,649.16	
	5) Form work/Shuttering								
	Form work	Raft foundation	m²	676.50			196.45	132,898.43	
		RCC Walls	m <sup>2</sup>	410.76			360.80	148,202.21	
		1	m <sup>2</sup>	496.44			360.80	179,115.55	

	-	Ours' Care	1.1	0	FC Portio	n (Yen)	en) LC Portion (INR)		D. Carrer
	froms	Specification	Unit	Qıy'	Unit Price	Amount	Unit Price	Amount	Reference
		Base Slab for Ansaroble	m <sup>2</sup>	1,353.00			401.65	543,432.45	×
		Peth way	m <sup>2</sup>	358.80			196 45	70,486,26	
	6) Re-bar work								
	Raft @1,0%		kg	37373.85			70.96	2,651,951.22	
- Indiana -	Wall @1 25%		kg	26705.70			70.96	1,894,967 04	
	Slab @ 0 6%		kg	37373.85			70.96	2,651,951.22	
	7) Epoxy painting work	1	- NB	3/3/3,03				2,027,037,02	
			m2	1,280,00			121,15	155,072.00	
	Epoxy painting	wall	m2	504.00			121.15	61,059,60	
	Epoxy painting	Wall	m2	403.20	-		121.15	48,847.68	
	Epoxy painting	1	1112	403/20			1.6.1,12	46,647.06	
	8) Foot step installation		37	21.00			225,00	4,725,00	
	CI foot steps (PVC encapsulated)		No	21,00			223,00	4,723,00	
	9)Railing isntallation Providing and fixing 1 00m high								
	Railing made up of of 25mm		m	510.00			1,960,00	999,600,00	
	10) Miscellanious work			fuluranian automorphism and a second			_		
	Misc Unforescen items		Ls	1.0			9,000	9,000,00	
							300 30 10		
	Sub-Tota	1				0		30,370,681.10	
	Tota	I	Ls	2			30,370,681	60,741,362.20	2 tanks
	11. Raw Sludge Sump			-					
	1) Excavation Work					İ	···································		
	Exeavation	00 00m - 01 50m B G L	m	59,39			184.79	10,974.31	
		01 50m = 03 00m B G I		34.21			231.98	7,936.51	
	Excavation-for dry well	00 00m - 01 50m B G I		54,32			184.79	10,036.87	
	Interval on your dry wen	01.50m - 03.00m B G L		45,54			231.98	10,564.37	
	2) Plain Concrete work	Dr John - Dr Wall Breit	211			1			
	Plain concrete - for wet well	01.50m = 03,00m B.G.L	m	3.42			6,555.89	22,421.14	
	Plain concrete - for dry well	01.30m - 03,00m B,O.L	m'	3.04			6,555.89	19,929.91	
	3) RC concrete work		111			-	0,000.07	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	RC Concrete- for wet well	Raft foundation	m <sup>3</sup>	3.70			12,715.80	46,997.60	
	AC CONCICIES for Well Well	RCC Walls	m <sup>3</sup>	31,10			12,715.80	395,484.78	
	RC Concrete- for dry well	Raft foundation	m <sup>3</sup>	12.14		1	12,715.80	154,420.68	
	Re Concrete for thy wen	R.C.C Columns	m <sup>3</sup>	5.04		-	12,715.80	64,087,63	
		RCC Walls x-x	m <sup>3</sup>	11.88		<del> </del>	12,715.80	151,063.70	
		x-y	m <sup>3</sup>	7.20		<del> </del>	12,715.80	91,553.76	
		R.C.C. Stairs	m <sup>3</sup>	5.88			12,715.80	74,768.90	
			m m <sup>3</sup>	4,15			12,715.80	52,731.30	
	4) F	Plateform for inspection	m	4.10			12,715.80	32,731.30	
	4) Form work/Shuttering	Raft foundation	m²	12.60			106.45	2,671.72	
	Form work- for wet well	RCC Walls	m²	13.60			196.45 360.80	17,954.47	
	F	Raft foundation		49.76				-	
	Form work- for dry well	RCC Walls x-x	m <sup>2</sup>	11.20			196.45	2,200.24	-
		x-y	m <sup>2</sup>	15.84			360.80	5,715.07	
		R.C.C. Stairs	m <sup>2</sup>	11.04			360.80	3,983.23	
		Plateform for inspection	m <sup>2</sup>	24.00			395.65	9,495.60	
		. accroint for mapocault	m²	6.60			401.65	2,650.89	
	5) Re-bar work						<b>50.55</b>	00.001.00	-
	Raft @1.0%		kg	1243.44			70.96	88,231.27	-
	Wall @1.25%		kg	4924.09			70.96	349,400.84	1
	Slab @ 0.6%		kg	472.27			70.96	33,510.88	
	6) Epoxy painting work							ļ	
	Epoxy painting		m2	145.14			121.15	17,583.94	
	7) Foot step installation							ļ	
	CI foot steps (PVC encapsulated)		No	12.00			225.00	2,700.00	
	8)Railing isntallation								
	Providing and fixing 1.00m high		m	68.20			1,960.00	133,672.00	
	Railing made up of of 25mm  9) Alminium work						·		Detailed Specs are mention

	Take to					FC Portio	on (Yen)	LC Portion	on (INR)	
	W	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
		Providing and fixing aluminium								
		work for doors, window, ventilators						i		
		and partitions with extruded built up standard tubular								
	ļ	sections/appropriate Z sections and								
		other sections of approved make		-						
		conforming to IS: 733 and IS: 1285,								
		fixing with dash fasteners of						1		
		required dia and size, including								
		necessary filling up the gaps at junctions i.e. at top, bottom and		130						
		sides with required EPDM rubber								
		/neoprene gasket etc. Aluminium							1	
		sections shall be smooth rust free,								
		straight mitred and jointed								
		mechanically wherever required								
		including cleat angle, aluminium		}						
		snap beading for glazing /paneling ,CP. brass /stainless steel screws, all		1						
		complete as per architectural								
		drawings and the directions of								
		Engineer/in charge . (Glazing,								
		naneling and dash fasteners to be								
		Powder coated aluminium							Ì	
		(minimum thickness of powder coating 50 micron).								
		External Member		ka	12.0062		<del> </del>	435.75	6,050.48	
				kg	13.8852		-			
		Internal Member Aluminium snap Beading on both		kg	14.2128			435.75	6,193.23	
		ride		kg	2.9568		ļi	435.75	1,288.43	
		Angle cleat		kg	0.7880			435.75	343.37	
		For shutters of doors, windows &								
		ventilators including providing and								
		fixing hinges/pivots and making					1			
		provision for fixing of fittings		1						
		wherever required including the cost of EPDM rubber/neoprene gasket		1						
		required (Fittings shall be paid for								
		separately).								
		Powder coated aluminium								
		(minimum thickness of powder								
		coating 50 micron).		1						
		.@ 12 kg /SQMT of the Door B		m2	7.2000			435.75	3,137.40	
		Providing and fixing glazing in								
		aluminium door, window, ventilator								
i		shutters and partitions etc. with								
		EPDM rubber / neoprene gasket etc. complete as per the architectural								
		drawings and the directions of								
		Engineer-in-charge.(Cost of								
		aluminium snap beading shall be								
		paid in basic item).								
		With float glass panes of 8 mm		m2				1,338.40	6,424.32	-
		thickness			4.80	<b></b>	-	,	,	
		Filling the gap in between aluminium frame & adjacent RCC								
		/Brick /Stone work by providing								
		weather silicon sealant over backer								
		rod of approved quality as per								
		architectural drawing and direction								
		of Engineer-in-charge complete.								
		Up to 5 mm depth and 5 mm width.		m	16.80			88.75	1,491.00	
		Providing and fixing aluminium		+	10.00		1			
		handles, ISI marked, anodised								
		(anodic coating not less than grade								
		AC 10 as per IS: 1868) transparent								
		or dyed to required colour or shade,								
		with necessary screws etc. complete.		each		<del> </del>	+	66.95	267.80	
		Providing and fixing aluminium pull		each	4		-	00.73	207.80	
i		bolt lock ISI marked, anodised		i						
		(anodic coating not less than grade		,	_			60.00	550.40	
		AC 10 as per IS: 1868 ) transparent		each	8			69.80	558.40	
		or dyed to required colour or shade,								
		with necessary screws bolts nut and				<b></b>				
		10) Mild Steel work								

		E STEEL E		5.70	200	FC Portio	n (Yen)	LC Porti	on (INR)	D. C
		ltems	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
		Providing and fixing rolling shutters								
		of approved make, made of required								
		size M.S. laths, interlocked together								
		through their length and jointed								
		together at the end by end looks,					] ]			
		mounted on specially designed pipe							{	
		shift with brackets, side guides and								
		arrangements for inside and outside								
		locking with push and pull operation								
		complete, including the cost of providing and fixing necessary 27.5								
		cm long wire of adequate strength								
		conforming to IS: 4454- part 1 and								
		MS top cover of required thickness								
		for rolling shutters								
		80x 1 25 mm M S linhs with 1 25			No. o			1.112.10	16,065 75	
		num thick top cover _		m2	7.5			2,142.10	16,063-73	
		Providing and fixing ball bearing for		cach	1	:	1 1	438 95	438.95	
		rolling shutters.								
		Extra for providing mechanical		m2	7.5			724 85	5,436.38	
		device chain and crank operation for operating rolling shutters		111.	1.0	]		17.4 0%	5,4.1016	
		11) Other Works	<del></del>							
		M.S. Gate (3.6 Mir wide) with								
		Wicket Gate (1.2 Mtr. Wide)		No	1			69,898,00	69,898.00	
		Supply and fixing of Slutee valves		No	2			380,000,00	760,000.00	
		Misc, unforeseen items		Ls	1			4,900,00	4,900.00	
		Trige universely north								
		Total					0		2,665,235.12	
-		Total				<u> </u>	"		2,005,235.12	
		12 Detum Cludes Comp								
		12. Return Sludge Sump								
		1) Excavation Work							55.555.40	
		Excavation	00,00m = 01,50m B.G.I	m'	120,18		11 110	184.79	22,207.69	
			01.50m = 03.00m B G I	m'	108.57			231.98	25,186.93	
			03,00m = 04,50m B,G,1		97.56			291.27	28,415.85	
			04,50m = 06,00m B,G,1	mi	58.09			340.09	19,755.21	
		Excavation-for dry well	00,00m - 01,50m B.G.1	nı '	110.72			184.79	20,459.02	
			01.50m 03.00m B.G.I	m'	97.44			231.98	22,604.13	
			03.00m - 04.50m B G.I	m³	84.92			291.27	24,733.19	
			04.50m - 06.00m B.G.I	m'	24.38			340.09	8,291.39	
		2) Plain Concrete work								
		Plain concrete - for wet well	4.50m 6.00m B.G.L.	m <sup>3</sup>	5.81			6,555.89	38,089.72	
		Plain concrete - for dry well	4.50m - 6.00m B G.L	m <sup>3</sup>	4.88			6,555.89	31,992.74	
		3) RC concrete work	4.50m = 0.00m B G.E	- 111	1.00					
		RC Concrete- for wet well	Raft foundation	m <sup>3</sup>	4.82			12,715.80	61,239.29	
		RC Concrete- for wet wen	RCC Walls							· · · · · · · · · · · · · · · · · · ·
			Raft foundation	m <sup>3</sup>	43.90			12,715.80	558,272.70	
		RC Concrete- for dry well		m³	19.50			12,715.80	248,008,96	
	ļ		R.C.C Columns	m <sup>3</sup>	5.04			12,715.80	64,087.63	
			RCC Walls x-x	m <sup>3</sup>	31.80			12,715.80	404,362.44	
			х-у	m <sup>3</sup>	7.20			12,715.80	91,553.76	
			R.C.C. Stairs	m³	11.76			12,715.80	149,537.81	
			Plateform for inspection	m <sup>3</sup>	6.66			12,715.80	84,689.67	
		4) Form work/Shuttering								
		Form work- for wet well	Raft foundation	m <sup>2</sup>	15.60			196,45	3,064.62	
			RCC Walis	m²	64.84			360,80	23,395.22	
		Form work- for dry well	Raft foundation	m²	15,20			196.45	2,986.04	
			RCC Walls x-x	m <sup>2</sup>	0.00			360.80	0.00	
-			x-y	m <sup>2</sup>	11.04			360.80	3,983.23	
			R.C.C. Stairs						18,991.20	
			Plateform for inspection	m <sup>2</sup>	48.00			395.65	-	
				m <sup>2</sup>	10.60		-	401.65	4,257.49	
		5) Re-bar work								
		Raft @1.0%		kg	1909.12			70.96	135,466.19	
		Wall @1.25%		kg	8134.94			70.96	577,234.28	
		Slab @ 0.6%		kg	867,59			70_96	61,562.00	
		6) Epoxy painting work								
	+	Epoxy painting		m2	216.46	i		121-15	26,224.13	

			0.	FC Portio	n (Yen)	LC Porti	on (INR)	D.C
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
7) Foot step installation								
CI foot steps (PVC encapsulated)		No	12.00			225.00	2,700.00	
 8)Railing isntallation		1						
Providing and fixing 1.00m high Railing made up of of 25mm		m	105.90			1,960.00	207,564.00	
 9) Alminium work Providing and fixing aluminium		1						
work for doors, window, 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 ,CP brass /stainless steel screws, all								
Powder coated aluminium (minimum thickness of powder coating 50 micron).					;			
External Member		kg	13.8852			435.75	6,050.48	
Internal Member		kg	14.2128			435.75	6,193.23	
Aluminium snap Beading on both		kg				435.75	1,288.43	
 side Angle cleat		kg	2.9568 0.7880	+		435.75	343.37	·
ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber/neoprene gasket required (Fittings shall be paid for separately).				And and the state of the state				
Powder coated aluminium (minimum thickness of powder coating 50 micron).								
.@ 12 kg /SQMT of the Door B		m2	7.2000			435,75	3,137.40	
Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item).								
With float glass panes of 8 mm thickness		m2	4.80			1,338.40	6,424.32	
Filling the gap in between aluminium frame & adjacent RCC /Brick /Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawing and direction of Engineer-in-charge complete.								
Up to 5 mm depth and 5 mm width.		m	16.80			88.75	1,491.00	
Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete								
 125 mm		each		1		66.95	267.80	

	trans.	0	X10.06	Own	PC Portio	n (Yen)	LC Portio	on (INR)	Reference
	liems	Specification	Unit	Qıy	Unit Price	Amount	Unit Price	Amount	Keterenee
	Providing and fixing aluminium pull bolt lock ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws bolts not and washers etc. complete.		each	8			69.80	558.40	
	10) Mild Steel work								
	Providing and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire of adequate strength conforming to IS 4454- part 1 and M.S. top cover of required thickness for rolling shutters				marana da di di da da da da da da da da da da da da da				
	80x 1 25 mm M S. laths with 1 25 mm thick top cover		m2	7.5			2,142.10	16,065.75	
	Providing and fixing ball bearing for rolling slutters.		each	1			438,95	438.95	
	Extra for providing mechanical device chain and crank operation for operating rolling shutters.		m2	7.5			724.85	5,436.38	
	11) Other Works								
	M.S. Gate ( 3.6 Mtr wide) with Wicket Gate (1.2 Mtr. Wide)		No	1			69,898.00	69,898.00	W. W. W.
	Supply and fixing of Sluice valves		No	2			380,000.00	760,000.00	
	Misc, unforeseen items		Is	1			4,900.00	4,900.00	
	Total					0		3,853,410.04	
 	13.Thickened Sludge Sump								
 	1) Excavation Work		3	42.04			184 79	8 100 66	
	Excavation	00,00m + 01,50m B.G.L	m <sup>3</sup>	43_84 24_63			231.98	8,100.66 5,713.70	
 	Excavation-for dry well	01.50m - 03.00m B.G.L	m m <sup>3</sup>	54 32			184.79	10,036.87	
 	Excavation-101 dry wen	00,00m 01,50m B.G.L 01,50m 03,00m B.G.L	m <sup>3</sup>	45.54			231.98	10,564.37	
 	2) Plain Concrete work	01,30,11 - 03,00111 B 0,1	111				201.70	20,000	
 	Plain concrete - for wet well	00 00m - 01 50m B G I	m <sup>3</sup>	2.46			6,555.89	16,147.25	
 	Plain concrete - for dry well	01 50m - 03 00m B G.I	m <sup>3</sup>	3.04			6,555.89	19,903.68	
	3) RC concrete work								
	RC Concrete- for wet well	Raft foundation	m³	3.14			12,715.80	39,876.75	
		ROC Walls	m <sup>3</sup>	26.39			12,715.80	335,562.84	
	RC Concrete- for dry well	Raft foundation	m³	12.14		ļi	12,715.80	154,420.68	
 		R.G.C Columns  RCC Walls x-x	m <sup>3</sup>	5.04			12,715.80	64,087.63	
		x-y	m³	11.88			12,715.80	151,063.70	
 		R.C.C. Stairs	m <sup>3</sup>	7.20 5.88			12,715.80	91,553.76 74,768.90	
 			m m³	4.15			12,715.80	52,731.30	
 	4) Form work/Shuttering	Plateform for inspection	111	4,15			12,713.00	32,731.30	
 	Form work- for wet well	Raft foundation	m <sup>2</sup>	12.60			196.45	2,475.27	
 		RCC Walls	m <sup>2</sup>	42.22			360.80	15,234.10	
 	Form work- for dry well	Raft foundation	m²	11.20			196,45	2,200.24	
		RCC Walls x-x	m²	15.84			360.80	5,715.07	
		х-у	m <sup>2</sup>	11.04			360.80	3,983.23	
					t		395.65	9,495.60	
		R.C.C. Stairs	m²	24.00			29,02	3,433.00	
	5) Re-bar work	R.C.C. Stairs  Plateform for inspection	m <sup>2</sup>	6.60			401.65	2,650.89	

	A PROPERTY OF THE PARTY OF THE	0 (5	11 3	0.	FC Portio	n (Yen)	LC Porti	on (INR)	D. f
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Wall @1.25%		kg	4461.69			70.96	316,589.84	
	Slab @ 0.6%		kg	472.27	1		70,96	33,510.88	
	6) Epoxy painting work								* *
	Epoxy painting		m2	145.14			121.15	17,583.94	
	7) Foot step installation								
	CI foot steps (PVC encapsulated	)	No	12.00			225 00	2,700.00	
	8)Railing isntallation	9	110	12.00				2,700.00	
	Providing and fixing 1.00m high		·						
	Railing made up of of 25mm		m	68.20			1,960.00	133,672.00	
	diameter GI pipe						,		
	9) Alminium work								
	Providing and fixing aluminium								
	work for doors, window, ventila								
i	and partitions with extruded buil	lt up							
	sections/appropriate Z sections a	nd							
	other sections of approved make		1						
	conforming to IS: 733 and IS: 12	285,							
	fixing with dash fasteners of		Ì						
	required dia and size, including necessary filling up the gaps at		1						
	junctions i.e. at top, bottom and								
	sides with required EPDM rubb								
	/neoprene gasket etc. Aluminium							1	
	sections shall be smooth rust fre straight mitred and jointed	е,							
	mechanically wherever required								
	including cleat angle, aluminium								
	snap beading for glazing /paneli					1			
	,CP brass /stainless steel screws	, all							
	drawings and the directions of	1			1		}		
	Engineer/in charge (Glazing								
	Powder coated aluminium								
	(minimum thickness of powder								
	coating 50 micron).  External Member		kg	13.8852			435.75	6,050.48	
	Internal Member		kg	14.2128			435.75	6,193.23	
			L KE	14.2120	' <del> </del>		455.75	0,123.23	
	Aluminium snap Beading on bo	ih	kg				435.75	1,288.43	
				2.9568			425.75	242.25	· · · · · · · · · · · · · · · · · · ·
	Angle cleat		kg	0.7880			435.75	343.37	
	For shutters of doors, windows of								
	ventilators including providing a								
	fixing hinges/pivots and making provision for fixing of fittings								
	wherever required including the	cost							
	of EPDM rubber/neoprene gask								
	required (Fittings shall be paid f	or							
	separately).					ļ			
	Powder coated aluminium								
	(minimum thickness of powder								
	coating 50 micron).					<u> </u>			
	@ 12 kg /SQMT of the Doo	т В	m2	7,2000		ļ	435.75	3,137.40	
	Providing and fixing glazing in								
	aluminium door, window, ventil	ator							
	shutters and partitions etc. with								
1	EPDM rubber / neoprene gasket complete as per the architectural		1				-		
	drawings and the directions of				-	İ			
	Engineer-in-charge (Cost of								
	aluminium snap beading shall b							1	
	paid in basic item).								
	With float glass panes of 8 mm thickness		m2	4 00			1,338.40	6,424.32	
		veen	+	4,80	<u> </u>	-			
	aluminium frame & adjacent								
	/Brick /Stone work by provi								
	weather silicon sealant over ba								
	rod of approved quality as	per							
	architectural drawing and dire-								
	of Engineer-in-charge complete.		1					1	

		ee.	213.0	0	FC Portion (Yen)	LC Porti	on (INR)	Reference
	Items	Specification	Unit	Qty	Unit Price Amount	Unit Price	Amount	Reference
	Up to 5 mm depth and 5 mm width.		m	16,80		88,75	1,491.00	
	Providing and fixing aluminium			10,80				
	handles, ISI marked, anodised							
	(anodic conting not less than grade							
	AC 10 as per IS : 1868 ) transparent or dyad to required colour or shade,							
	with necessary screws etc. complete.							
	125 mm		each	i e		66.95	267.80	
	Providing and fixing aluminium pull							
	bolt lock ISI marked, anodised							
	(anodic coating not less than grade AC 10 as per IS: 1868) transparent		each	8		69.80	558 40	
	or dyed to required colour or shade,							
	with necessary screws bolts nut and							
	washers etc. complete.							
	10) Mild Steel work							
	Providing and fixing rolling shutters							
	of approved make, made of required size M.S. laths, interlooked together					:		
	through their length and jointed							
	together at the end by end locks,						}	
	mounted on specially designed pipe							
	shaft with brackets, side guides and arrangements for inside and outside							
	locking with push and pull operation							
	complete, including the cost of							
	providing and fixing necessary 27.5 cm long wire of adequate strength							
	conforming to IS: 4454- part 1 and							
	M.S. top cover of required thickness				1			
	for rolling shutters.							
	80x 1.25 mm M.S. laths with 1.25		m2	7.5		2,142.10	16,065.75	
	mm thick top cover		1112	7.5		2,142.10	10,003,73	
	Providing and fixing ball bearing for rolling shutters.		each	1		438.95	438.95	
	Extra for providing mechanical							
	device chain and crank operation for		m2	7.5		724.85	5,436.38	
	operating rolling shutters.							
	11) Other Works							
	M.S. Gate (3.6 Mtr wide) with		No	1		69,898.00	69,898.00	
	Wicket Gate (1.2 Mtr. Wide)							
	Supply and fixing of Sluice valves		No	2		380,000.00	760,000.00	
	Misc. unforeseen items		Ls	1		4,900.00	4,900.00	
	Total				(		2,547,948.64	
	14. Digested Sludge Sump							
	1) Excavation Work							
	Excavation	00,00m - 01,50m B.G.I	m <sup>3</sup>	59.39		184.79	10,974.31	
		01.50m - 03.00m B.G.I	m <sup>3</sup>	51,32		231.98	11,904.76	
		03.00m - 04.50m B.G.I	m <sup>3</sup>	43.84		291.27	12,768.43	
		04.50m - 06.00m B.G.L	m <sup>3</sup>	24.63		340.09	8,376.47	
	Excavation-for dry well	00.00m ~ 01.50m B.G.I	m <sup>3</sup>	74.12		184.79	13,695.71	
		01.50m - 03 00m B G.I	m <sup>3</sup>	63,84		231.98	14,809.60	
		03.00m - 04.50m B.G.I	m <sup>3</sup>	54.32		291.27	15,820.33	
		04.50m - 06,00m B.G.I	m <sup>3</sup>	15.18		340.09	5,162.57	
	2) Plain Concrete work		1	0.10				
	Plain concrete - for wet well	4.50m - 6.00m B.G.L	m <sup>3</sup>	2.46		6,555.89	16,147.25	
	Plain concrete - for dry well	4.50m - 6.00m BGL	m <sup>3</sup>	3.04		6,555.89	19,903.68	
	3) RC concrete work	Raft foundation		2.17		10.715.00	20.055.55	
	RC Concrete- for wet well	RCC Walls	m <sup>3</sup>	3.14		12,715.80	39,876.75	
	DC Concrete for January	Raft foundation	m <sup>3</sup>	28.59		12,715.80	363,526.41	
	RC Concrete- for dry well	R.C.C Columns	m <sup>3</sup>	12.14 5.04		12,715.80	154,420.68 64,087.63	
4			111	J.U4	1	14,/13.00	07,007.03	

		5		05.	FC Portion ()	Yen)	LC Portio	on (INR)	Reference
	Items	Specification	Unit	Qty	Unit Price An	mount	Unit Price	Amount	Reference
		х-у	m <sup>3</sup>	7.20			12,715.80	91,553.76	
		R.C.C. Stairs	m <sup>3</sup>	11.76			12,715.80	149,537.81	
		Plateform for inspection	m <sup>3</sup>	4.15			12,715.80	52,731.30	
	4) Form work/Shuttering								
	Form work- for wet well	Raft foundation	m²	12.60			196.45	2,475.27	
		RCC Walls	m²	42.22			360.80	15,234.10	
	Form work- for dry well	Raft foundation	m <sup>2</sup>	11.20			196.45	2,200.24	
	Tom work for any wan	RCC Walls x-x	m <sup>2</sup>	0.00			360.80	0.00	
		х-у	m <sup>2</sup>	11,04			360.80	3,983.23	
		R.C.C. Stairs	m <sup>2</sup>	48.00			395.65	18,991.20	
		Plateform for inspection	m <sup>2</sup>	6,60			401.65	2,650.89	
	5) Parkaranah	<u> </u>	1111	0,00			401.03	2,030.03	
	5) Re-bar work		1				70.06	85,111.98	
	Raft @1.0%		kg	1199.48			70.96	· · · · · · · · · · · · · · · · · · ·	
	Wall @1.25%		kg	5454.63			70.96	387,046.18	
	Slab @ 0.6%		kg	749 22			70.96	53,162.39	
	6) Epoxy painting work								
	Epoxy painting		m2	134.77			121.15	16,327.95	
	7) Foot step installation								
	CI foot steps (PVC encapsulated)		No	12.00			225_00	2,700.00	
	8)Railing isntallation								
	Providing and fixing 1.00m high			68 20			1,960.00	133,672.00	
	Railing made up of of 25mm diameter GI pipe		m	68 20			1,960.00	133,672,00	
	9) Alminium work								
	Providing and fixing aluminium		<del> </del>					<del>                                     </del>	
	work for doors, window, ventilators								
	and partitions with extruded built up								
	standard tubular				•	ļ		l i	
	sections/appropriate Z sections and other sections of approved make								
	conforming to IS: 733 and IS: 1285,					İ		ļ	
į	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		1					1	
	/neoprene gasket etc. Aluminium				1 1			]	
	sections shall be smooth rust free,							1	
	straight mitred and jointed								
	mechanically wherever required								
	including cleat angle, aluminium snap beading for glazing /paneling								
	,CP. brass /stainless steel screws, all		1						
	complete as per architectural							}	
	drawings and the directions of								
	Engineer/in charge (Glazing,								
	paneling and dash fasteners to be								
	Powder coated aluminium								
	(minimum thickness of powder								
	coating 50 micron). External Member		kg	13.8852			435.75	6,050.48	
	Internal Member		kg	14.2128			435.75	6,193.23	
	Aluminium snap Beading on both		1						
	side		kg	2050			435.75	1,288.43	
		ļ · · · · · · · · · · · · · · · · · · ·	+	2.9568			125.75	242.25	
	Angle cleat		kg	0.7880	1		435.75	343.37	
	For shutters of doors, windows &								
	ventilators including providing and								
	fixing hinges/pivots and making								
	provision for fixing of fittings								
	wherever required including the cos of EPDM rubber/neoprene gasket	it							
	required (Fittings shall be paid for								
	separately).								
				-				<del> </del>	
	Powder coated aluminium (minimum thickness of powder								
ı	coating 50 micron).								
l l									

	I THE	Items	Specification	Unit	QIy	FC Portio	n (Yen)	LC Port	on (INR)	Reference
		Harry	Specification		4.9	Unit Price	Amount	Unit Price	Amount	recrement
		Providing and fixing glazing in								
		aluminium door, window, ventilator								
		shutters and partitions etc. with								
		EPDM rubber / neoprene gasket etc.								
		complete as per the architectural								
		drawings and the directions of								
		Engineer-in-charge (Cost of								
		aluminium snap beading shall be								
		paid in basic item)								
		With float glass panes of 8 mm								
		thickness		m2	4.80			1,338 40	6,424 32	
		Filling the gap in between			- 1100				ļ	
		aluminium frame & adjacent RCC							1	
		Brick Stone work by providing								
		weather silicon sealant over backer								
		rod of approved quality as per		}					}	
		architectural drawing and direction							[	
		of Engineer-in-charge complete								
		Up to 5 mm depth and 5 mm width		m				88.75	1,491.00	
					16.80			00.75	1,471.00	
		Providing and fixing aluminum								
		handles, ISI marked, anodised (anodic coating not less than grade							1	
				<b>—</b>				44.05	2/5 90	
		125 mm		each	- 4			66.95	267.80	
	1	Providing and fixing aluminium pull								
		holt lock ISI marked, anodised								
		(anodic coating not less than grade								
		AC 10 as per IS: 1868 ) transparent		each	8			69.80	558.40	
		or dyed to required colour or shade.		1						
	1	with necessary screws bolts nut and								
		washers etc. complete.		}						
		10) Mild Steel work								
-		D								
		Providing and fixing rolling shutters								
		of approved make, made of required								
		size M.S. laths, interlocked together through their length and jointed							1	
		together at the end by end locks,								
		mounted on specially designed pipe		1 1					1	
		shaft with brackets, side guides and								
		arrangements for inside and outside		1						
		locking with push and pull operation								
		complete, including the cost of								
		providing and fixing necessary 27.5					ļ			
		cm long wire of adequate strength					į		1	
		conforming to IS: 4454- part 1 and					ĺ			
		M.S. top cover of required thickness							ĺ	
		for rolling shutters.								
		80x 1.25 mm M.S. laths with 1.25								
		mm thick top cover	<u> </u>	m2	7.5			2,142,10	16,065.75	
		Providing and fixing ball bearing for rolling shutters.		each	1			438.95	438.95	
		Extra for providing mechanical								
		device chain and crank operation for		m2	7.5			724.85	5,436.38	
		operating rolling shutters.		1112	77			124.63	3,430.36	
									1	
		11) Other Works		ļ						
	1	M.S. Gate ( 3.6 Mtr wide) with								
		Wicket Gate (1.2 Mtr. Wide)		No	1			69,898.00	69,898.00	
				<del> </del>					-	
		Supply and fixing of Sluice valves		No	2			380,000.00	760,000.00	
		Misc. unforeseen items		Ls	1			4,900.00	4,900.00	
	ļ	_							-	
	l .	Total					0		2,903,119.23	
		15. Treated Effluent Pumning Station								
		15. Treated Effluent Pumping Station 1) Excavation Work	1					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

or March			THE STATE OF THE S	1		FC Portion (Ye	en)	LC Portio	on (INR)	D.C.
		Items	Specification	Unit	Qty	Unit Price Amo	unt Unit	Price	Amount	Reference
			01.50m - 03.00m B.G.I	m <sup>3</sup>	117.75		231	.98	27,315.65	-
			03.00m - 04.50m B.G.I		106.27		291	1.27	30,953.08	
			04.50m - 06.00m B.G.I		95.38		340	0.09	32,436.93	
		Excavation-for dry well	00.00m - 01.50m B.G.I	-	126.00			1.79	23,283.54	
		Dieuvilles for in a war	01.50m - 03.00m B.G.I		111.38			1.98	25,837.93	
	·- <del>·</del>		<del></del>		97.50			1.27	28,398.83	
			03.00m - 04.50m B.G.I		42.19			0.09	14,348.40	
		Town time and have asked	04.50m - 06.00m B G.I		7.50			1.79	1,385.93	1
		Excavation-pump house, column	00 00m - 01 50m B.G.I	ш	7.50		10-	F.72	1,505.55	
		2) Soil transportation work	21 5 4							
		Excess soil transportation	2 km away from the site	m <sup>3</sup>	625.34		210	5.00	135,073,44	
		Royalty for Disposing of Excavated Surplus Earth		m <sup>3</sup>	625.34		30	.00	18,760.20	
		3) Plain Concrete work		2					(1, ((0, 5)	
		Plain concrete - for wet well	4,50m - 6,00m B.G.L	m <sup>3</sup>	8.65			28.73	61,663.51	
		Plain concrete - for dry well	4.50m - 6.00m B.G.L.	m <sup>3</sup>	8.40		<del></del>	28.73	59,881.33	
		Pump house column		m <sup>3</sup>	0.50		7,12	28.73	3,564.37	
		4) RC concrete work								-
		RC Concrete- for wet well	a. Above Ground Level	m <sup>3</sup>	8.25		12,7	15.80	104,905.35	
			b. upto 1,5 mtr. B.G.L	m <sup>3</sup>	12.37		12,7	15.80	157,294.45	
			c. 1.5 - 3.0 mtr. B.G.L.	m <sup>3</sup>	11.66		13,0	97.27	152,714.21	
			e, 3.0 - 4.5 mtr. B.G.L	m <sup>3</sup>	16.43		13,6	05.91	223,545.04	
			f. 4.5 - 6.0 mtr. B.G.L	m <sup>3</sup>	13.67		14,2	41.70	194,683.98	
			g. Raft	m <sup>3</sup>	14.31		14,2	41.70	203,798.67	
-		RC Concrete- for dry well	a. Above Ground Level	m <sup>3</sup>	2.40			15.80	30,517.92	
		The condition for the man		m <sup>3</sup>	3.69			15.80	46,921.30	
				m <sup>3</sup>	1.20		_	15.80	15,258.96	
			b. upto 1.5 mtr. B.G.L	m <sup>3</sup>	3.60			15.80	45,776.88	
			1							
				m <sup>3</sup>	5.54			15.80	70,445.53	<del></del>
			c. 1.5 - 3.0 mtr. B.G.L	m <sup>3</sup>	1.80			15.80	22,888.44	
			6. 1.5 = 3.0 Mtr. B.G.L	m <sup>3</sup>	3.60			97.27	47,150.19	
				m <sup>3</sup>	5.54		_	97.27	72,558.90	
				m <sup>3</sup>	1.80		13,0	97.27	23,575.09	
			e. 3.0 - 4.5 mtr. B.G.L	m <sup>3</sup>	5 40		13,6	05.91	73,471.89	
				m <sup>3</sup>	8 40		13,6	05.91	114,289.61	
				$m^3$	2.70		13,6	05.91	36,735.95	
			f. 4.5 - 6.0 mtr. B.G.L	m³	1.20		14,2	41.70	17,090.04	
				$\mathbf{m}^3$	1.89		14,2	41.70	26,916.81	
				m <sup>3</sup>	0.60		14,2	41.70	8,545.02	
			g. Raft	m <sup>3</sup>	33.60		14,2	41.70	478,520.99	
-		RC Concrete- pump house	Column	m <sup>3</sup>	5.63	<del>                                     </del>		15.80	71,589.95	
		Commenter Parish Board	COMMIN	m <sup>3</sup>	7.50			15.80	95,368.50	
			Beam	m <sup>3</sup>	4.98	<del> </del>		15.80	63,324.68	
			DEWIII	m <sup>3</sup>	5.60		<del></del>	15.80	71,208.48	
			CI-L	m m <sup>3</sup>	10.77			15.80	136,949.17	
		DC C Ct-i	Slab	m <sup>3</sup>	<del>                                     </del>	-			9,664.01	
		RC Concrete- Stairs	Riser and tread	+	0.76		<del></del>	15.80		
			waist slab	m <sup>3</sup>	1.91		12,7	15.80	24,287.18	
		4) Form work/Shuttering	1	-					<del> </del>	
		Form work- for wet well	a. Above Ground Level	m <sup>2</sup>	27.48			0.80	9,912.98	
			b. upto 1.5 mtr. B.G.L	m <sup>2</sup>	41.21			0.80	14,869,47	
			c. 1.5 – 3.0 mtr. B.G.L	m <sup>2</sup>	38.86	5	36	0.80	14,019.79	
			e. 3.0 - 4.5 mtr. B.G.L	m <sup>2</sup>	36.50		36	0.80	13,170.10	
			f. 4.5 - 6.0 mtr. B.G.L	m <sup>2</sup>	22.77	7	36	0.80	8,213.61	
			g. Raft	m²	14.31		19	6.45	2,811.20	
		Form work- for dry well	a. Above Ground Level	m <sup>2</sup>			36	0.80	2,886.40	
		JOHN WOIK- 101 GLY WEIL	-	I	8.00	1				
				m <sup>2</sup>	12.30			0.80	4,437.84	
				m²	4.00	1		60.80	1,443.20	
			b. upto 1.5 mtr. B.G.L	m²	12.00		_	0.80	4,329.60	
				m <sup>2</sup>	18.45	5	36	0.80	6,656.76	
				m <sup>2</sup>	6.00		36	0.80	2,164.80	
			c. 1.5 = 3.0 mtr. B.G.L	m <sup>2</sup>	12.00		36	0.80	4,329.60	
		1		m <sup>2</sup>	+			50.80	6,656.76	

		Items	Specification	Unit	Qıy	I'C Portion (Yen)	LC Porti		Reference
		1000	Spectreman		417	Unit Price Amount	Unit Price	Amount	
				m <sup>2</sup>	6.00		360.80	2,164.80	
			e, 3,0 = 4,5 mtr. B,0 L	m <sup>2</sup>	12,00		360.80	4,329,60	
				m <sup>2</sup>	18,68		360.80	6,737.94	
				m <sup>2</sup>	6.00		360.80	2,164.80	
			f, 4.5 = 6.0 mtr, B,G L	m²	2.00		360.80	721,60	
				m <sup>2</sup>	3,15		360.80	1,136,52	
				m²	1.00		360.80	360,80	
			g, Raft	m <sup>2</sup>	84,00		196 45	16,501,80	
		Form work- pump house	Column	m <sup>2</sup>	30,00		453.35	13,600,50	
	-			m²	40,00		453.35	18,134.00	
			Beam	1112			332.15	5,649.87	
				-	17,01			-	
			Slate	m²	19.35		332.15	6,427.10	
			SIBII	m <sup>2</sup>	2,35		401,65	944.68	
		Form work- Stairs	Riser and tread	m <sup>2</sup>	7,60		395,65	3,006.94	
			waist slab	nı'	12.75		401.65	5,121.04	
		5) Re-bar work			12.174				
		Re-but installation		1:			70,96	1,096,206.68	
				kg	15448,80		70,70	1,070,200.06	
		6) Masonary work							
		Masonary work	Brick	m <sup>3</sup>	35,96		5,819.30	209,251.55	
		7) Finishing Work							
		1st Class Single Brickwork in 1/6		m <sup>2</sup>			167,23	39,832.85	
		Cement &Local Sand Mortin in			238.19		101,20		
		8) Epoxy painting work							
		Epoxy painting		m2	208,81		121.15	25,297.33	
		One prime coat and two coat of dry		m2	257.51		60.36	15,543.42	
		distemper on new work		-			P. 1711-1-1	7.7	13000
		Cement concrete with 20 mm gauge approved stone ballast, coarse sand							
		and cement in the proportion of	40mm thick with 20 mm nominal size	m2	2.12		8,557,16	18,103.53	
		4:2:1 including supply of all	stone aggregate.	In .	2,12		0.557.10	16,103,53	
		materials, labour, T&P etc. required for proper completion of the work.							
		Cement plaster skirting upto 30 cm							
		height, with cement mortar 1:3 (1	20 mm thick	m2	7.35		441.31	3,243.63	
		cement :3 coarse sand), finished		****			112.07		
		with a floating coat of neat cement.  9) Alminium work		1					
		Providing and fixing aluminium		+					
1		work for doors, window, 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,							
1		fixing with dash fasteners of							
		required dia and size, including necessary filling up the gaps at						1	
		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						1	
		mechanically wherever required							
		including cleat angle, aluminium						1	
1		snap beading for glazing /paneling ,CP. brass /stainless steel screws, all							
		complete as per architectural						1	
		drawings and the directions of						1	
		Engineer/in charge . (Glazing,							
1		paneling and dash fasteners to be paid for separately).							
		Powder coated aluminium							
		(minimum thickness of powder							
		coating 50 micron).							
		External Member		kg	13.8852		435.75	6,050.48	
		Internal Member		kg	14.2128		435.75	6,193.23	

			1	N North	FC Portio	n (Yen)	LC Porti	on (INR)	
No.	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Aluminium snap Beading on both		kg	2.9568			435.75	1,288.43	
	side Angle cleat		kg	0.7880			435,75	343.37	
	For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber/neoprene gasket required (Fittings shall be paid for separately).			0.7000					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).								
	.@ 12 kg /SQMT of the Door B		m2	6,4800			435,75	2,823.66	
	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge (Cost of aluminium snap beading shall be paid in basic item).								
	With float glass panes of 8 mm thickness		m2	4.32			1,338 40	5,781.89	
	Filling the gap in between aluminium frame & adjacent RCC /Brick /Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawing and direction of Engineer-in-charge complete. Up to 5 mm depth and 5 mm width.		m	16.80			88.75	1,491.00	
	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete.			10.00					
	125 mm		each	4			66.95	267.80	
	Providing and fixing aluminium pull bolt lock ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws bolts nut and washers etc. complete.		each	8			69.80	558.40	
	Providing and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire of adequate strength conforming to IS: 4454- part 1 and M.S. top cover of required thickness for rolling shutters.								
	80x 1.25 mm M.S. laths with 1.25		m2	7.5	;		2,142.10	16,065.75	
	nim thick top cover .  Providing and fixing ball bearing for rolling shutters.		each	1			438.95	438.95	
	Extra for providing mechanical device chain and crank operation for operating rolling shutters.		m2	7.5	5		724.85	5,436.38	

Items	Specification	Unit	Qty	FC Portion	Yen)	LC Port	un (INR)	Reference
itcus	Specification	Unit	Qiy.	Unit Price	Amount	Unit Price	Amount	Reference
 C1 foot steps (PVC encapsulated)		No	18,00			725.00	4,050,00	,
12)Railing iantallation								
Providing and fixing 1 00m high			121.00			1.000.00	24 1 2 1 2 2 0	
Railing made up of of 25mm diameter GI pipe		m	134-82			1,960.00	264,247.20	
 13) Other Works								
M.S. Gate (3.6 Mtr wide) with			ļ .			60 BOU 00	60 808 00	~~~~
 Wicket Gitte (1.2 Mtr. Wide)		No	1			69,898.00	69,898,00	
Tota 'T'ota	1				0		5,102,207.40	
16. Sludge Drying Bed								
1) Excavation Work								
Excavation	Walls	m	237.60			184,79	43,906.10	
		m³	268.80			184.79	49,671,55	
	Walis	m,	6,758.40			184 79	1,248,884.74	
	Beds						22,352.20	
	for pipe laying 200 mm dia	ni <sup>3</sup>	120,96			184.79	<u> </u>	
	for pipe laying 250 mm din	m <sub>2</sub>	243,66			184 79	45,025,93	
2) Plain Concrete work								
Plain concrete	M15 Grade	m	15,84			8,557.16	135,545,41	
		m'	17.92			8,557,16	153,344.31	
3) Masonary Work								
First class brick work in 1;4 cement		,						
and coatse sand mortar in Super		m'	41.58			5,925.29	246,373.56	
 Structure		m'	109,30			5,925,29	647,610,50	
		m'	47 04			5,925.29	278,725.64	
		m¹	123.65			5,925,29	732,650.26	
		nı	125.05			J,743,47	732,030.20	
 4) Concrete work  Cement concrete with 20 mm gauge							-	
approved stone ballast, coarse sand	for wall coping	ni '	4.55			9,440.74	42,993.13	
and cement in the proportion of								
		m'	5.15			9,440.74	48,638.69	
 5) Plastering work								
12mm thick plaster with cement	X - X	m²	1,188.00			174.17	206,913.96	
	X-Y	m²	1,344.00			174.17	234,084.48	
6) RC concrete work								
RC concrete installation	for walkway slab	m <sup>3</sup>	16.50			12,715.80	209,810.70	
7) Re-bar work								
for walkway slab @ 1%		kg	1295.25			70.96	91,907.57	
8) Painting work			1293.23					
One priming coat and two coats of								
water proof cement on new outer		m2	1,188.00			111.31	132,236.28	
 surface of buildings		2	1 244 00			111 21	149,600.64	
 0.01.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		m2	1,344.00			111.31	147,000.04	
9) Sludge disposal pipe, valve and m				-				
Supply & Fixing of 250mm Ø DI pi		m	350.00			5,000.00	1,750,000.00	
Supply and fixing of 200mm Ø sluid	e valve	m2	13.00			55,000.00	715,000.00	
Supply & Filling of filter media	50-90 mm broken stone	m³	1,267.20			2,310.00	2,927,232.00	
	40-63 mm broken stone	m³	1,267.20			3,450.00	4,371,840.00	
	25-40 mm broken stone	m <sup>3</sup>	8,448.00			3,450.00	29,145,600.00	
	10-25 mm broken stone	m³	1,267.20			2,600.00	3,294,720.00	
		m <sup>3</sup>	2,534.40			2,375.00	6,019,200.00	
 10\ Din = in +1 +in1	Coarse Sand	ш	2,234.40	-		2,010.00	0,017,200,00	
10) Pipe installation wrok			204.22			201.24	150 071 55	
 RC pipe material cost	150 mm dia	m	384.00			391.34	150,274.56	
	200 mm dia	m	300.00	1		502.71	150,813.00	

Many -	Items	Specification	Unit	Qty	FC Portio	``	LC Portion	on (HAIX)	Reference
	items	Specification	Cint	49	Unit Price	Amount	Unit Price	Amount	Kererence
		250 mm dia	m	200.00			578.51	115,702.00	
	 RC pipe installation	150 mm dia	m	384.00			275.49	105,788.16	
			m	300.00			356.53	106,959.00	
		200 mm dia					371.62		
		250 mm dia	m	200.00			3/1.02	74,324.00	
	 11) Manhole installation work								
	Manhole installation	A-Type Manhole 900 mm Dia depth 1,2m to 1,65m	No.	18.00			19,780.00	356,040.00	
	 Misc. unforeseen items		Ls	1			400,000.00	400,000.00	
	 Total					0		54,403,768.37	
	 17. Sludge Digester								
	 1) Excavation Work							150 000 11	
	 Excavation	00.00m - 01.50m B.G.I	m <sup>3</sup>	864.77	-		184.79	159,800.44	
	 0) D :	01.50m - 03.00m B.G.I	m³	833.15	-		231.98	193,274.58	
	 2) Drainage work								
	Making all necessary arrangements for lowering down the water table to 3.0m BGL and bailing out the water from excavated sump well with the help of diesel engine.		$m^3$	452.8			79.39	35,947.00	
	3) Plain Concrete work								
	 Plain concrete	1.50m - 4,50m B,G,L.	m³	50.65			6,555.89	332,055.83	
	 4) RC concrete work								
	 RC Concrete	Raft foundation	m <sup>3</sup>	199.50			12,715.80	2,536,855.08	
		RCC Walls Main wall	$m^3$	193.23			12,715.80	2,457,112.18	
		Launder Wall	m <sup>3</sup>	5.66			12,715.80	71,915.48	
		R.C.C. Stairs	m <sup>3</sup>	2.40			12,715.80	30,517.92	
		Feed Well	m <sup>3</sup>	18.85			12,715.80	239,718.26	
	5) Form work/Shuttering								
	Form work	Raft foundation	m <sup>2</sup>	39.56			196.45	7,772.35	
		RCC Walls Main wall	m²	492.00			360.80	177,513.60	
		Launder Wall	m²	60.00	<u> </u>		360,80	21,648.00	
		R.C.C. Stairs	m²	24.00			395.65	9,495.60	
		Feed Well	m <sup>2</sup>	50.40	<b>†</b>		214.55	10,813.32	
	 6) Re-bar work			<u> </u>					
	 Raft @1.0%		kg	15661.08			70.96	1,111,269.31	
	 Wall @0.125%		kg	19515.94		1	70.96	1,384,800.64	
-	 Slab @ 0.6%		kg	1000.97	<del></del>	-	70.96	71,026.17	
	 7) Epoxy painting work		^6_	1000.57		<del> </del>	70.50	71,020,17	
	 Epoxy painting		m2	926.93			121.15	112,297.57	
	 8) Steel work			720.73				113,257.37	
	Providing and fixing Mild steel ladders, grills, frames etc. as per satisfaction of Engineer incharge including supply of all materials labour and T&P etc for proper completion of work		kg	1000.00			98.50	98,500.00	
$\overline{}$	9)Railing isntallation								
	 Providing and fixing 1.00m high Railing made up of of 25mm diameter GI pipe		m	79.18			1,960.00	155,192.80	
	 10) Other works								
	 Construction cost of Digestor dome		m	39.56			3,000.00	118,680.00	
	 Supply and fixing of 500 mm Ø Sluice valve for proper operation of the Digester		No.	1.00			220,000.00	220,000.00	
	 Misc. unforeseen items		Ls	1.0			9,850	9,850.00	
	Sub-Total					0		9,566,056.13	
	 Total		Ls	2			9,566,056	19,132,112.26	2 tanks
	i e e e e e e e e e e e e e e e e e e e	I .		1	1	1	1	1	

	Quantital day	11205	Ow	PC Portion (Yen)	LC Port	on (INR)	Reference
Hours	Specification	Unit	Qty	Unit Price Amoun	Unit Price	Amount	Reference
1) Excavation Work							······································
Excavation	00.00m = 01.50m B.G.I	m <sup>3</sup>	169.56		184,79	31,332 99	
	01.50m - 03.00m B.G.1	m	28 26		231,98	6,555.75	
2) Plain Concrete work							
Plain concrete		m <sup>3</sup>	11,30		6,364.94	71,923,82	
3) RC concrete work							
RC Concrete		m³	154,00		12,715,80	1,958,233_20	
4) Form work/Shuttering							
Form work		m <sup>2</sup>	555.00		360,80	200,244.00	
5) Re-bar work							
Ruft @1,0%		kg	12,089		70.96	857,804.01	
6) Masonary work							
Musonary work	Brick	m³	15 94		5,925.29	94,449,12	
7) One dome instalattion							
Provision for 6mm thick Gas dome							
		kg	57		90,73	5,171.61	
						ļ	
Provision for 800mm dia. and		h1	1		0.000.00	0.000.00	
1 00m height H D P E, tank		No	1		9,000.00	9,000.00	
9)Railing isntallation							
			07.02		1 960 00	182 142 80	
angle non post		311	12.93		1,700,00	102,142.00	
10) Steel work							
Supply and fixing of 8.0m long MS							
		kg	300,00		98.50	29,550.00	
				-			***************************************
f I		m²	30.32		5,000.00	151,593.75	
	80mmy 10m flats		5.04	<del>  </del>	650.00	3 276 00	
Florision of following Mis Work						-	
					<del> </del>		
		m					
		m	157.50		740.00	116,550.00	
	80mm dia. MS Tube(M)	m	39.38		880.00	34,650.00	
11) Pipe Installation							
		No.	5.00	1	9,000.00	45,000,00	
12) Other Works							
Site clearance & unforeseen items.		Ls	1,00		3,000.00	3,000.00	
Sub-Total					0	5,274,465	
			2				
					1		
19. LAB EQUIPMENT & ADMIN	ISTRATIVE BUILDE	NG FUR	NITURE				
GLASSWARE FOR LABORATORY						† · · · · · · · †	
	1000 ml	No.	10		1,243	12,430.00	
		No.	10		418	4,180.00	
			10	<del>                                     </del>		145,200,00	
		No.	18				
			18		924	16,632.00	
			18			+	
						<del> </del>	
	250ml	No.	18		847	15,246.00	
	50ml	No.	9		847	7,623.00	
		No.	9		825	7,425.00	
Rurettes	10ml	No.	9		2,068	18,612.00	
	1000-		7		2,000	10,012.00	
Cylinders Graduated	1000ml		Δ		1 551	13 050 00	
Cylinders Graduated Cylinders Graduated	500ml	No.	9		1,551	13,959.00	
Cylinders Graduated Cylinders Graduated Cylinders Graduated	500ml 250ml	No.	9		1,243	11,187.00	
Cylinders Graduated Cylinders Graduated Cylinders Graduated Cylinders Graduated	500ml	No.					
	Excavation  2) Plain Concrete work  Plain concrete  3) RC concrete  4) Form work/Shuttering  Form work  5) Re-bar work  Rnfl @1.0%  6) Masonary work  Masonary work  Masonary work  7) Gas dome instalation  Provision for form thick Gas dome including supply of all labour, T&P etc. required for proper completion  8) HDPE Tank installation  Provision for 800mm dia. and 1,00m height H D P E, tank  9)Railing isntallation  Supply & fixing of G.I. railing one metre height with 50x50x6 mm angle from post  10) Steel work  Supply and fixing of 8.0m long MS ladder made of angle iron and chequic plate foot steps  Provision for 6mm thick M.S. in chequired plate  Provision of following MS work  11) Pipe Installation  Revision for connection of gas pipe in dome including supply of all naterials, labour T&P etc. required for proper completion of work.  12) Other Works  Site clearance & unforeseen items.  Sub-Total  Total  19. LAB EQUIPMENT & ADMIN GLASSWARE FOR LABORATORY  Beakers  Beakers  Beakers  Beakers  Beakers  Beakers  Bottles Reagents  Bottles Reagents  Bottles Reagents  Bottles Reagents  Bottles BOD	1) Excavation  Excavation  On Dom = 01,50m B.O.1  2) Plain Concrete work  Plain concrete  3) RC concrete  4) Form work  RC Concrete  4) Form work  So Re-har work  Raft @1.0%  6) Masonary work  Masonary work  Masonary work  Masonary work  Masonary work  Masonary work  Provision for form thick Gas dome methoding supply of all labour. T&P etc. required for proper completion  8) 1DPE Tank installation  Provision for 800mm dia. and  1 00m height H D P E. tank  9)Raffing isnallation  Supply & fixing of G.I. raffing one metter height with 50x50x6 mm angle non-post  10) Steel work  Supply and fixing of 8.0m long MS ladder made of angle iron and chequire plate foot steps  Provision for form thick M.S. in chequired plate  Provision of following MS work  100x100x10mm angle iron  ISMB 100x75  125mm dia. MS Tubes (M)  80mm dia. MS Tube (L)  80mm dia. MS Tube (L)  11) Pipe Installation  Revision for connection of gas pipe in dome including supply of all naterials, labour T&P etc. required for proper completion of work.  12) Other Works  Site clearance & unforeseen items.  13 LAB EQUIPMENT & ADMINISTRATIVE BUILDIN GLASSWARE FOR LABORATORY  Beakers  Beakers  Beakers  Beakers  Beakers  Beakers  Beakers  Beakers  Beakers  Beakers  Bottles Reagents  500ml  Bottles Reagents  500ml  Bottles Reagents  500ml  Bottles Reagents  500ml  Bottles Reagents  500ml	1) Excavation Work  Excavation  Oxion-01,50m B.C.I m²  2) Plain Concrete work  Plain concrete  3) RC Concrete  A) Form work/Shuttering  Form work  RC Concrete  4) Form work/Shuttering  Form work  S) Re-har work  Ruft @1.0%  6) Masonary work  Ref  Kg  kg  kg  kg  HDPE Tank installation  Provision for 6mm thick Gas dome including supple completion  No  Provision for Multim dia. and  1.00m length H D P.E. tank  9)Rading isstallation  Rupply & fixing of G.I. rading one mete height with 50x50x6 mm angle non post  10) Steel work  Supply and fixing of 8.0m long MS ladder made of angle iron and chequice plate foot steps  Provision for fomm thick M.S. in chequiered plate  Provision of following MS work  100x100x10mm angle iron  Masonary  Ma	1)   Excavation	Description   Control	Henric   Specification   Unit   Oly   Unit Price   Amount   Unit Price	Specification   Unit   Ory   Unit   Proc   Amount   Unit   Proc   Amount   1)   Stackwiston   Volk

40.11		C: E .:	11. 3	C	FC Portio	n (Yen)	LC Porti	on (INR)	Reference
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Kelerence
	Condensers Allhin	400ml	No.	6			1,650	9,900.00	
	Bottles Aspirator	10 It.	No.	6			10,318	61,908.00	
	Bottles Aspirator	5 It.	No.	6			7,216	43,296.00	
	Descicator	200ml	No.	6			13,409	80,454.00	
	Funnel	100mm	No.	12	1		330	3,960.00	
	Funnel	75mm	No.	12	1		264	3,168.00	
	Flasks Erlenmeyer conical	500ml	No.	12	<del>                                     </del>		330	3,960.00	
	Flasks Erlenmeyer conical	250ml	No.	12			253	3,036.00	
	Flasks Erlenmeyer conical	100ml	No.	24	+		143	3,432.00	
	with inter changeable joints	TOOM	No.	12	-		583	6,996.00	
		5001	No.	6			616	3,696.00	
	Flask Kjeldhal	500ml	No.	6			924	5,544.00	
	Flask Flat Bottom	2000ml		6	-		495	2,970.00	
	Flask Flat bottom	1000ml	No.		-	!		-	
	Diehes Evaporat9ng 30x45mm		No.	24			231	5,544.00	
	Imhoff Cones 1 It		No.	2			5,368	10,736.00	
	Nesselers Tue	100ml	No.	24		-	308	7,392.00	
	Pipettes volumetric	100ml	No.	3			495	1,485.00	
	Pipettes volumetric	50ml	No.	6	-		264	1,584.00	<del></del>
	Pipettes volumetric	25ml	No.	6			231	1,386.00	
	Pipettes volumetric	10ml	No.	6	1		187	1,122.00	
	Pipettes Graduated Serlogical	10ml x 0.5	No.	24	-		231	5,544.00	
	Pipettes Graduated Serlogical	5ml x 0.5	No.	24	<u> </u>		209	5,016.00	
	Pipettes Graduated Serlogical	lmlx0.l	No.	12			165	1,980.00	
	FURNITURE FOR THE LABORAT	TORY						0.00	
	Steel Almirah 6.5' high		No.	2			13,500	27,000.00	
	Storewell for chemicals		No.	2			16,500	33,000.00	
	Office Tables (steel) 5'x3'x2.5' with s	unmica top & drawers	No.	2			10,500	21,000.00	
	Revolving stools with steel tops		No.	4			2,530	10,120.00	
	Office Tables(steel)3'x2.5'x2.5' with	sunmica top & drawers	No.	2			7,200	14,400.00	
	Chair(steel) with Arms		No.	12			2,500	30,000.00	
	Wooden stools 2.5' high		No.	2			950	1,900.00	
	LAB EQUIPMENT							0.00	
	BOD Incubator with voltage stablizer	Г	No.	1			61,875	61,875.00	
	Refrigerator with voltage stablizer 28	86 It. capacity	No.	1			25,784	25,784.00	
	Incubator		No.	1			30,943	30,943.00	
	Hot Air Oven 0-250°C		No.	1			36,091	36,091.00	
	Muffle Furnace Complete with	Pyrometer 50x50x500n	No.	1			22,693	22,693.00	
	Water Distillation Apparatus		No.	1			12,375	12,375.00	
	Rectangular water bath		No.	1	<u> </u>		4,642	4,642.00	
	pH meter Digital		No.	1	1		17,017	17,017.00	
	Balance Monopan Electrical		No.	1			25,267	25,267.00	
	Balance Dumping bouble pan		No.	1	1		3,608	3,608.00	
	Heating Plates 8" dia.		No.	1			3,608	3,608.00	
	Conductivity meter Digital		No	1			12,375	12,375.00	
	Lovibond Comparator with Phenol R	ed & Universal Indicate		1	<b></b>	<del> </del>	4,125	4,125.00	
	Heating Mantles	The state of the s	No.	1	1		1,551	1,551.00	
	Digestion & Distillation Assembly		No	1		<del> </del>	18,568	18,568.00	
	Bacteriological Incubator A		No.	1	+	-	47,190	47,190.00	
	Bacteriological Incubator B		No.	1	+	+	42,702	42,702.00	-
			No.	1		-	22,561	22,561.00	
	Auto Clave			1		+	28,028	28,028.00	
	MPN Count Instrument		No.			-		+	
	Air Condition Capacity 2 Tonne		No.	1		-	39,600	39,600.00	
	Microscope		No.	1	+		4,290	4,290.00	
	Hot Air Oven Capacity 0-150°C		No	1		<del> </del>	30,844	30,844.00	
	MISCELLANEPOUS ITEMS			-		ļ	10.212	0.00	
	H.T. Megger		No.	2		ļ	10,318	20,636.00	
	LT Megger		No.	2		-	10,318	20,636.00	
	Tong Tester		No	2			10,318	20,636.00	
	Fire Extinguisher 4.5 kg Co2		No.	4			2,068	8,272.00	
	PVC/Rubber Mattings		No.	2		ļ	4,125	8,250.00	
	Techno meter		No	2			10,318	20,636.00	
	Wall clock		No	2	1	T	520	1,040.00	<del></del>

	Items	Specification	Unit	Qty	FC Portion (Yen)	LC Portio	ar (UNK)	Reference
	Items	apecinention	Onic	Qiy	Unit Price Amount	Unit Price	Amount	Reference
	Pirst Aid Box		No.	2		3,100	6,200,00	
	Water cooler		No.	2		10,320	20,640.00	
				V.				
	Total						1,372,968,00	70.00
	20, PIPE CONNECTING TO DIFFI	ERENT UNITS OF	STP INC	LUDING (	OVERFLOW PIPES	AND VALVES		
	1) pipe installation							
	400mm dia, RCC NP3		m	1,200		1,345,31	1,614,372.00	
	300mm dia, HDPE pipe		m	200		1,320.00	264,000.00	
	250mm dia. HDPE pipe		m	200		1,100.00	220,000,00	
	200mm dia, HDPE Tyton pipe		m	400		880 00	352,000.00	
	150mm dia, Cl Tyton pipe		m	300		2,060,69	618,207.00	
	Supply of specials for above		-					
	CI/RCC pipes at Jal Nigam store, Variants including all Central/State and local taxes, loading, unloading, cutting and stacking as directed by Engineer-in- charge		Ls	1		306,857,9	306,857.9	10% of total pipe installation cost
	2) Earth work							
	Excavation		m	3,450		111,42	384,399.0	
100000	3) Material transportation cost	**************************************						
	1100 mm RCC NP3 pipe		m	400		1,200.00	480,000.00	
	400mm dia RCC NP3		m	1,200		350.00	420,000,00	
	300mm dia HDPE pipe		m	200		300,00	60,000,00	
	250mm dia HDPF pipe		ftt	200		165,00	33,000.00	
	200mm dia HDPE Tyton pipe	· · · · · · · · · · · · · · · · · · ·	nı	400		140.00	56,000.00	
	150mm dia Cl Tyton pipe		nı	300		100	30,000.00	
	4) Valve Material cost							
	400mm dia.	-f-similate-4	No.	4		82,500	330,000.00	
	300mm dia		No.	4		50,000	200,000.00	
	250mm dia.		No.	20		45,000	900,000.00	
	200mm dia.		No.	4		40,000	160,000.00	
	150mm dia		No.	4	1 - 1	30,000	120,000.00	<del> </del>
	5) Valve installation cost		140.			50,000	120,000.00	
	Valve installation		No.	36		30,000	1,080,000.00	
			190,	30	+	30,000	1,080,000.00	
	6) Miscellanious work Site clearance		Ls	1		3,731	3,731,00	
	Site clearance		1.5	1		5.751	3,731,00	
			+				7 (22 5/7	
	Total						7,632,567	
			1		-		-	
	21. CHLORINATION & DE-CHLO		EMS					
	1) Chlorination/De-Chlorination system	n installation	4					
į	GASEOUS CHLORINATION SYSTEMS		No.	1		700,000	700,000.00	
	DE-CHLORINATION SYSTEMS		No	1		840,000	840,000.00	
	(SULPHONATOR)							
	Chlorine Mixer/Diffuser System		No.	1		739,000	739,000.00	
	Chlorine gas INJECTOR SYSTEM		No.	1		609,000	609,000.00	
	CHLORINE CONTACT BASINE	···	No.	1		700,000	700,000.00	
	Safety Equipments Breathing					·		
	apparatus		Job	1		140,000	140,000.00	
	Caustic pit for dumping the leakage of cylinder for Chlorine absorption.		No.	2		147,000	294,000.00	
	Automatic Chlorine leakage detector & Alarm system.		No.	1		287,000	287,000.00	
	Emergency Kit Repair of damaged valves of cylinder equipment confirming to ISI:3324 and approved by Chief Controller of		No.	1		84,000	84,000.00	
	Water sprinkler system	4	No.	1		112,000	112,000.00	
	Chlorine sprinkler system		Job	1		350,000	350,000.00	
	Chlorine Feeding Station		No.	1		133,000	133,000.00	<del> </del>
	Sulphur Dioxide Storage Facilities		No.	1 .		336,000	336,000.00	
1	1		No.	1	+	301,000	301,000.00	

			(Carri)	Township.	FC Portio	n (Yen)	LC Porti	on (INR)	
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Programmable logic		No.	1			567,000	567,000.00	
	Accessories Supply of empty				-		106.000	2 522 000 00	
	cylinder for Chlorine appox. 1.0MT		No,	20			126,000	2,520,000.00	
	Cylinder loding/unloading and other handling kits misc.		No.	1			455,000	455,000.00	
	Pipe line assembling, fitting &		Job	1			490,000	490,000.00	
	connection and misc. water work		700		ļ		450,000	490,000.00	
ľ	Electric/electronic type panel Board & controlling unit.		No.	1			546,000	546,000.00	
	2) Other works								
	Unforeseen		Job	1			50,000	50,000.00	
								10.252.000	
	Total							10,253,000	
	22. PUMP HOUSE WITH CHLOI	PONOME	-						
	1) Excavation Work	CONOME	+		<del> </del> -			<u> </u>	
	Excavation		m <sup>3</sup>	11.16			184.79	2,062.26	
	2) Plain Concrete work		<del>                                     </del>					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Plain concrete		m <sup>3</sup>	0.65			6,364.94	4,137.21	
	3) Masonary work								
	Masonary work	Brick	m <sup>3</sup>	12.80			5,203.66	66,606.85	
		Brick	m <sup>3</sup>	23.50			5,203.66	122,286.01	
	4) Water proof work								
	Water proof installation		m <sup>2</sup>	6.20	ļ		270.73	1,678.53	
	5) RC concrete work								
	RC Concrete		m <sup>3</sup>	5,00	-		12,798.59	63,992.95	
	6) Wooden work		m <sup>3</sup>	0.40	-		77.250.00	20.042.60	
	Wooden work Sheesham wood 40mm thick		1	0.40	-		77,359.00	30,943.60	
	fully paneled door shutters		m <sup>2</sup>	4.25			3,677.53	15,629,50	
	Sheesham wood 40mm thick								
	fully paneled door shutters, partly paneled and partly glazed window		m <sup>2</sup>	6.75			3,684 10	24,867.68	
	shutters								
	40mm thick (1:2:4) PCC floor with cement approved coarse sand and								
	20mm gauge approved stone ballast								
	laid in panels finished with 3mm								
	floating coat of neat cement or cement and marble dust in ratio 1:5			,					
	as specified over and including 7.5								
	cm thick base concrete consisting of		m <sup>3</sup>	16 50			544.18	8,978.97	
	cement, local sand and 4cm gauge brick ballast in the proportion of								
	1:4:8 and removing and over		1						
	lapping or mortar at joints of panels if any and giving them uniform				1				
	finish including supply of all								
	materials, labour, T&P etc. required								
	7) Plastering work		<del> </del>		1				
	Plastering work		m <sup>2</sup>	256.00	1	1	126.92	32,491.52	
	8) Utilitiy work		1						
	Supply and fixing of 100mm dia.		Ls	1			900.00	900.00	
	AC. pipe for gravel pouring .  Supply and fixing of 100mm CI rain			1.40	<b>-</b>			-	
	water pipe with clamps etc.		m <sup>2</sup>	8			200.00	1,600.00	
	Supply and fabrication of MS grill				1				
	for window & verandah including fixing in position as per direction of		kg	102			85.00	8,670.00	
	Engineer-in-charge								
	Supply of oxidized iron fittings for doors and windows.		m <sup>2</sup>	16			125.00	2,000.00	
	Supply and fittings of hold fasts for		Each	32			60.00	1,920.00	
	door and windows frames		Lacii	32		ļ	00.00	1,720,00	
	9) Other works					ļ			
	Site clearance and Unforeseen items		Ls	1	-	ļ	3,284.00	3,284.00	
						-		ļ	
	Sub-Total	<del> </del>				1		392,049	
	Total	I.	1	1	1	1	1	1 509,664	Add 30%

		0 77	-		FC Portion	(Yen)	LC Portion	on (INR)	D C
	Items	Specification	Unit	Qiy	Unit Price	Amount	Unit Price	Amount	Reference
	23 Guard Room								
	1) Excavation Work								
	Excavation		m <sup>3</sup>	9.06			184,79	1,674.20	
	2) Plain Concrete work								
	Plain concrete		10,1	2.72	-	——	6,364,94	17,312,64	
				~ / 4	-		0,504,54	17.516.07	
	3) Masonary Work		3	2.04			£ 100 £ 30	19,968.23	
	Masonary work	Brick	m <sup>2</sup>	3,37	-		5,925,29		
			m³	3,33	-  -		5,925,29	19,731,22	
	4) Water proofing work								
	water proof installation		m <sup>2</sup>	1,84			275,36	506,66	
	5) RC concrete work								
	RC Concrete		m'	0.07			12,715.80	890.11	
		for slabs.	10.1	1.12			12,715.80	14,241.70	
	6) Re-bat work								
	Re-bar installation		kg	140			70.96	9,934.04	
	Mild steel or iron work in heavy						-		
	sizes, such as tresses built up gates.		1	61.1			06.13	1 990 17	
	door frames records racks, tool		kg	51-4			95 12	4,889,17	
	work, gates window grills, etc								
	7) Plastering work								
-	Plastering work		m <sup>*</sup>	23 15			167.23	3,871.37	
	engraving liness in the plaster of								
	outer face wall, vertically and		111	23.15			15,00	347.25	
	horizontally to display the surface as								
	stone facing				-				
	Plastering work	plaster in 1-4 cement	m²	20,65			174.17	3,596.61	
	I disternig work	and medium sand mortar	1111	2.07,00		ĺ	1,4,17	3,3 70.01	
	Making drip course in 1.2	mortai							
l	with cement and coatse sand		m	25.00			55.00	1,375.00	
	2.5cm thick 1:2:4 PCC floor	-	m²	9.51	1		567.31	5,395.12	
	2.5cm thick 1:2:4 PCC floor	- 141 4 1	m <sup>2</sup>	9,51	1	-	434.07	4,128,01	
		without base concrete.	111	7,51			4.14.07	4,120,01	
	20mm thick cement plaster in Dado skirting in 1:2 consisting of								
	cement and coarse sand mortar laid								
	in panels finished with 3mm		2	0.03			417.20	380.90	
	floating coat of neat cement and		m2	0.92			416.28	380.90	
1	marble dust including supply of all								
	materials, labour, T&P etc. required								
	for proper i completion of the work.								
	Providing and fixing of glass strips ,								
	of 6mm thickness in joints in floor								
	including supply of all materials,		m	33.76			10.00	337.60	
	labour, T&P etc. required for proper								
	! completion of the work.								
	Supply fabrication and fixing of MS								
	i grill made with 20x4mm MS fiat								
	as per approved design & drawing by Engineer-in-charge for window		kg	94.15			84.00	7,908.60	
	&: ventilator including painting		28	74.13			07.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	with two coat of red oxide as					Ì			
	required for proper completion of Fabrication, supply & fixing of steel								
	Fabrication, supply & fixing of steel framed glazed window &								
	C.S. window wrought to required					İ			
	shape and frame with 2 section of			-30-					
	heavy quality including supply &		kg	57,50			98.00	5,635.00	
	fixing of steel handles bolts with		1965	100					
	hinges holdfast and stags but							1	
	excluding cost of plane glass panes								
	grouting with				-				
	1:2:4 PCC cement, coarse								
	sand, stone grit 20mm gauge			4.20			23.25		
	including painting with two coat of		kg	115.40			94.00	10,847.60	
	red oxide; as required for proper					1			
	completion of work.				1				

7/15/15/15	1500	WHITE WATER TOWN				FC Portio	n (Yen)	LC Porti	on (INR)	
	TO I I	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
		raprication supply & fixing of M.S.:  door made with 12mm gauge of MS sheet MS angle iron 40x40x5 MS! flat 50x5x10 mm square bar fixing with sample iron 50x50x6 door i chaukhat frame including cost of steel all carriage welding, cutting labour grinding to smooth finishing: at necessary hinges & hold fast grouting with PCC 1:2:4 cement, coarse sand and 20mm gauge stone grit including drilling, threading of all screws, nuts, bolts locking arrangement		kg	160.00			106.00	16,960.00	
		Supply & fixing of 3mm thick plane glass panes in window and ventilation with, putty including supply of all materials, labour, T&P etc. required for proper completion of the work.		m2	7,00			62.50	437.50	
		Painting or varnishing on new iron work in small areas or new wood work with one coat of ready mixed priming paint and two coats of approved superior quality ready mixed enamel paint or clear synthetic varnish including supply of all materials, labour, T&P etc. required for proper completion of the work.		m2	2.40			140.45	337.08	
		White wash in three coats including supply of all materials, labour, T&P etc. required for proper completion of the, work.		m2	43.80			15.32	671.06	
		One priming coat and two coat of dry distemper on new work including supply of all materials, labour, T&P etc. required for proper completion of the work.		m2	20,65			54.00	1,115.10	
		Finishing of walls with water proofing cement paint (super snowcem) with three coat on new work including supply of all materials, labour, T&P etc required		m2	23.15			50,60	1,171.54	
		for proper completion of the work. Supply and male to proper of the work rain water or air vent pipe with cowel, bends, tees clamps and fitting etc. complete including supply of all materials, labour, T&P etc. required for proper completion		m	3.00			55.50	166.50	
		Unforeseen items		Ls	i			1,293.00	1,293.00	
		Sub-Total							155,122.81	
		Total							310,245.62	
		23 FIRE FIGHTING SYSTEM								
		Supply & installation of ISI marked single headed 63mm dia. gunmetal lading value, Flanged Inlet with 63mm female instantaneous outlet confirming to IS 5290 on the fire wet riser/down comer including making 80b Nb pipe connection with riser fixing the landing valves in proper positions including supply of nuts, bolts, gaskets caps, chain etc. testing the hydrant and completing the work in all respect as per direction of the Engineer-in-		No.	8			5,900.00	47,200.00	

			1 June	THE	FC Portio	in (Yen)	LC Porti	on (INR)	CERTAINS E
	ltoma	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	MS pipe installation 25mm	25mm	m	12			320,00	3,840,00	
		65 mm	m	25			580.00	14,500,00	
		80mm	m	75			725,00	54,375,00	
		100mm	13)	100			940,00	94,000,00	
			m	100			1,410.00	141,000,00	
	Supply & fixing in position ISI marked east fron double flanged sluice valves with gun metal as per IS 780 class PN 16 including transporting to work site supply and fixing nuts, bolts, gaskets and washer etc including testing complete as per drawing as per the Engineer-in-charge make (Kirloskar). Custle/Sit/Kalmana)		No	12			4,750 00	57,000.00	
	100 NB		No	8			5,840,00	46,720,00	
	150NB		No	8			8,450.00	67,600.00	
	Supply, fixing in position ISI marked cast iron double flanged non return valves as per IS 5312, including transportation to worksite, supply & fixing nuts bolts gasket and washers etc complete with testing as per direction of the Engiaeer-incharge make (Kiloskei/Castle Su/Kalnpana) 80 NB		No	1			3,620,00	3,620,00	
	100NB		No.	1			4,720.00	4,720.00	
	150NB		No	2			7,920.00	15,840.00	
-	Supply, installation and testing of cylindrical type air cushion/vessel tank, 250mm dia, 1.0 m long and of thickness 6mm MS, on top of wet riser and with the pump set netuding flanged connection etc. The air cushion tank shall be providing with an automatic air release valve, safety valve pressure gauge etc. complete as per pressure gauge etc. complete as per supplements.			1			25,000.00	25,000.00	
	Stipship cauxaile contabilities are a Commissioning of 20mm bore and 30meter long hose (Rubber lined )unlop pipe) and hose reel for first lid fire fighting, conforming to IS 384, with full swing drum fixing brackets, 5mm dia. shut off gun metal nozzle 25mm dia. GI pipe including 25mm dia GI pipe through 25mm dia. GI pipe including 25mm dia. GI pipe including 25mm dia. GI pipe including 25mm dia. GI pipe including 25mm dia. GI pipe including p5mm dia. GI pipe including p5mm dia. GI pipe length with sockets, elbow nipples etc. including providing operating instruction on a metal plate and fixing it near hose reel		No.	2			7,200.00	14,400.00	
	Providing gun metal IS marked 63mm dia. branch pipes & 20mm dia. nozzle near wet riser as required (Make: Minimax/ Firex/ Saex/		No.	2			2,000.00	4,000.00	
	Providing IS marked R.R.L. (IS.636 Type II) Fire hose pipe 1 5 m long and 63mm dia. with IS1 marked (IS: 903 gun metal make and female" coupling complete as required near wet riser make		No.	4			6,500.00	26,000.00	

				TELL I	FC Portion	n (Yen)	LC Portion	on (INR)	1,242
17	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Providing and fixing onfice plate at								
	appropriate place to restrict the								
	pressure at different floor on the wet								
	riser system and yard hydrant it		No.	1		ŀ	550,00	550.00	
	shall be inserted between the tee		No.	1		}	330,00	330.00	
	and hydrant valve, the size of plate being 100mm or 80mm (as the case					1			
	may be) the hole not less than				ļ				
	50mm and the thickness shall not be Providing and fixing of draining:								
	arrangement to the vertical wet riser							1 (00 00	
	system/spriklers system		No.	1		ŀ	1,600.00	1,600.00	
	with i necessary 50mm GI pipe								
	complete with 50mm dia, stop valve		1		1				
	hose cabinet "0.9m x 0.9m x 0.45m"								
	out door type suitable for								
	accommodating yard hydrant made								
	for not less than 16 swg MS sheet having central opining glass door								
1	(5mm thick clear glass) including								
	necessary locking arrangement with		No.	2			4,800.00	9,600.00	
	hanger for housing two nos. 15m			_			,	,	
	long fire hoe pipe branch pipe and								
	hydrant valve as required including								
	painting (one coat primer and two								
	coat a fire rate paint by the fire rate				1 1				
	color, the cabinet shall be mounted				1 1				
	Sin reticularitation de losse capitles								
	door (1.0,* 1.8m) suitable to fit in							ŀ	
	the ; just made of not less than 16								
	SWG MS sheet having central opening ;lass door (5mm thick clear								
	glass) icluding necessary								
	locking Tangement & handle as								
	required including necessary		No.	2			3,750.00	7,500.00	
	locking arrangement & handle as								
1	required including painting )one								
	coat primer i & two coats of fire red								
	color) by the fire red color, the door								
	shall be fixed in the masonry wall as				1				
	masonry chamber 60*60*100 cm					-			
	inside the 75 class designation FPS								
	brick work in cement mortar 1:5(1								
1	cement : 5 fine sand) for sluice				1 1				
	valve with CI cover and frame								
	(medium duty) 500mm internal								
	diameter total weight of cover and								
	frame to be not less than 116 kg		No.	1			14,000.00	14,000.00	
	(weight of cover 58kg and weight of		110.	•			1.,000.00	11,000.00	
	frame 58kg) . with chained lid and								
	RCC top slab 1:2:4 mix(l cement: 2								
	coarse sand : 4 graded stone aggregate 20mm nominal size)								
}	necessary excavation, foundation,								
	concrete 1:5:10 (1 cement: 5								
	fine sand : 10 graded stone								
 	5.1.1.C. 161 4 way samul				-			-	
	instantaneous inlet for fire brigade							1	
	connection including provision for								
[	150mm dia sluice valve and not								
	return valve (the cost of sluice and								
	non return valve shall be under								
	separate item) and making connection with 150 NB fire		No.	1			22,500	22,500.00	
	fighting wet riser pipe or under		140	1			22,300	22,300.00	
	ground water tank and fixing inlet								
	with caps and chains in a 5mm thick								
	glass, fronted box of 16 GWG MS								
	sheet, fixing it on the ground level								
	on concrete base, painting with fire								
 -	S.I.T.C. of TAG approved electrical								
	motor driven fire pump suitable for							] ]	
	lutomatic operation consisting of		No.	1			250,000	250,000.00	
	recomente obetanon consistină or		1 10.	1 *		I	-20,000	1 250,000.00	
1	bllowing (main pump for hydrant					į .			

		6 6	1	0.	FC Portio	on (Yen)	LC Porti	on (INR)	pc
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Horizontally mounted split casing	***************************************							
	centrifugal fire pump complete for								
	ielivery of under mentioned								
	lischarge against desired mentioned								
	lend so as to insure of minimum								
	iressure of thirty mtr. At highest and arthest out let at the specified flow								
	omplete with necessary stainers.							]	
	iressure gauge including bypass								
	trangement for periodic testing of le								
	working of the pump set as well as		No	1			18,000	18,000,00	
	testing of automation with		2000						
	required length and size of medium								
	class GI pipe and control valves for							,	
	proper completion of work, the								
	pump shall be capable of giving							1	
	150% of rated discharge at head not								
	less than 65% of rated head the								
	pump "shall be provided with								
	mechanical seal, the impeller shall								
 	he enclosed type and accurately Squittel case TEFC induction motor		+		<del> </del>				
	suitable for 415V 3 phase having IP								
	55 protection and class B insulation								
	for the above pump and flexible							0,00	
1	coupling with the pump, the motor							0.00	
	shall be rated for continuous duty/								
	and shall, have HP rating necessary								
 	S.I.T.C. of TAC approved		-		1			1	
1	diesel engine driven fire pump		1	1			te 000	44 000 00	
	suitable for automatic		1	1			46,000	46,000.00	
	operation consisting of					}			
 	following (standby pump)							1	
	S.IT.C. of TAC approved								
	electrical motor driven fire					Ì			
	pump suitable for automatic			1			54,000	54,000.00	
	operation consisting of					Ì			
	following (Jockey pump)		į .						
	Fabricating supply fixing testing &								
	commissioning of cubical type flow								
	mounted electrical control panel of								
	2mm thick CRCA sheet for fire fighting pump with suitable relays.		1					1	
	S/F unit with HRC fuses for								
	incoming and outgoing feeders							1	
	contactor, star delta starters								
	including land ammeter, voltmeter,		ł						
	selector, switches, CTs, PTs				}	]			
	protective fuses indicating light for		}						
	incoming and out going feeders							0.00	
	auxiliary switches dry section cutoff,							0.00	
	single phase presenter, suitable								
	capacity copper bus bars etc. The								
	panel, shall be provided with inter								
	locking arrangement								
	between electric motor driven								
	and diesel engine driven pump so								
	that only one pump can operate at								
	one time, and in case of any failure in electrical motor driven					1			
	pump the diesel engine driven								
	pump shall operate								
 	Jane Civerna					1		0.00	
	1 No. Electric motor driven		No.	1	1	1	13,500	13,500.00	
			_	1	-	<del> </del>		10,500.00	
 	1 No. Diesel pump		No.				10,500	<del>                                     </del>	-
	1 No. Jockey pump		No	1		ļ	12,000	12,000.00	
	C02 gas type 4.5 kg capacity		No.	2			7,800	15,600.00	
	Foam AFFF type 9 litre capacity		No.	4			1,780	7,120.00	
			1	165				1	
			_		-	-		1 100 005 00	
	Total							1,102,285.00	

15790		Cn. C.	II.	0.	FC Portio	n (Yen)	LC Portio	n (INR)	Reference
人, 17	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Ketetence
	Supply of following sizes of pipes at								
	site of work inclusive of all taxes,								
	carting, loading, unloading and 1 proper stacking etc. all								
	150mm dia. CI Tyton class LA		m	50			1,600.00	80,000,00	
 	150mm dia. PVC pipe (6kg/cm2)		m	380			400.00	152,000.00	
 			+	1,000			160.00	160,000.00	
	110mm dia. PVC pipe (6kg/cm2)		m	•					
 	Cost of specials & fittings @ 10%   Excavation in ordinary soil for pipe		Ls	1	-		39,200.00	39,200.00	
	line (loam, clay or sand) for lead				-				
	upto 50m and lift upto		2	1.160			194.70	212,508.50	
	1.5m including filling, watering,		m3	1,150			184.79	212,308.30	
	ramming of excavated earth and								
 	disposal of surplus earth upto a  Laying & jointing and fixing of		+		<del> </del>				
	following size of pipes. 150mm dia.		m	30			40_58	1,217.40	
	150mm dial PVC pipe (6kg/cm2)		m	380			25.91	9,845.80	
 	110mm dia, PVC pipe (6kg/cm2)		m	1,000			23.71	23,710.00	
	Supply & fixing of Fire hydrant as								
	per IS 909-1969 consisting of							1-1-1	
	65mm dia. duck foot bend with standard make coupling and CI cap		No.	3			7,800.00	23,400.00	
	hinged to P/E bend by chain for		140.	5			7,000.00	25,100,00	
	destination including all taxes etc.				-				
	complete. Hydrant 80x65mm dia. Supply and fixing of plain ended				ļ				
	sluice valve with cap of following						1		
	sizes for destination suitable for		.,				7 200 00	21 (00 00	
	working pressure of 10kg/cm2		No.	3			7,200.00	21,600.00	
	; including cost of its chamber.								
 	150mm dia.		No.	4	<del> </del>		3,200 00	12,800.00	
	100mm dia. Supply & fixing of 20mm dia.		NO.		-	ļ	3,200 00	12,600.00	
	single screwed working pressure		,,				10.500.00	21 500 00	
	10kg/cm2 FOR site including		No.	3			10,500.00	31,500.00	
	construction of its chamber etc.					ļ			
	Supply of all materials, labour, T&P construction of pillar type stand post		No.	6			6,500.00	39,000.00	
	as per type design.		140.	0			0,500.00	33,000.00	
	Unforeseen items		Ls	1			6,000.00	6,000.00	
	Total					ļ		812,781.70	
			1						
 	25. SOIL INVESTIGATION OF ST	TP SITE	1		<b>———</b>				
	Provision for soil investigation		Ls	1	1	1	100,000	100,000.00	
 1	1 TOVISION TO SON INVESTIGATION		1			-	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100,000.00	
	26. VEHICLES		+						
			NI-	1	-	<del>                                     </del>	1,500,000	1,500,000.00	
 	Multipurposes Vehicle		No	1		+	1,300,000	1,300,000.00	
 	27. HIRING OF TEMPORARY G	ODOWN							
	Provision for hiring of godown for 36 months. 200 m2 @ Rs 120.00/		month	36			6,840	246,240,00	
	m2 for 36 months.		III OBLII	30			0,840	240,240,00	
	28. OFFICE CUM LABORATOR	Y BUILDING		-	1	1			
	Construction of doubled storied				+	1			
	office cum laboratory building to be								
	finalised at the time of execution of		m2	300			20,700	6,210,000.00	
	project including supply of all								
 	materials, labour, T&P etc. all Supply of all materials and complete		+		<del>                                     </del>				· · · · · · · · · · · · · · · · · · ·
	internal water supply and sanitary					ļ			
	installations of office cum laboratory						931,500.00	931,500.00	
	buildings including cost of pipe, fittings, labour, T&P etc. complete							,	
	required for proper completion of								
	required for proper completion of Supply of all materials, wire, plug,								
	switches and bulb holders, fans etc.								
	and wiring etc complete as per						931,500.00	931,500.00	
1	electrical specifications including arrangement for inverter all labour								
	T&P etc. required for proper								
	Supply of all kinds of furniture						621,000.00	621,000.00	
 	including Almirah, Table, Chairs		+		-	1	1 322,300.00	,	
 						1		8,694,000.00	

161			0 P	10.0	HADAS	FC Portio	n (Yen)	LC Porti	on (INR)	D.C
		Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
		29. 250 KL RCC OVER HEAD T.	ANK & APPURTENE	NT WO	RKS					
		Design and construction of 250 KL								
		RCC O.H.T. at a staging of 15.0m								
		excluding cost of all pipes staice valves and specials but inclusive of		liter	250,000			10	2,500,000	
		all other works and fixing of pipes		III.CI	2.000			117	2,300,000	
		including cost of all								
		lahour materials T&P etc. complete Cost of inlet pipe 150mm dia outlet								
		pipe 150mm dia overflow pipe								
		150mm dia and washout								
		pipe 100mm dia with CI duck foot		I_s	1			300,000	300,000	
		hends and shace valve of each	1							
		size including cost of shice								
		valve chambers etc. all.complete			-					
	····								2 900 000 00	
-		Total	II .						2,800,000.00	
				l	l				-	
		30, 100 KL RCC OVER HEAD T. Design and construction of 100 KI	ANK & APPURTENE	AL MO	RKS					
ļ		RCC O H T. at a staging of 15.0m								
		excluding cost of all pipes shace								
		valves and specials but inclusive of		litei	100,000			10	1,000,000	
		all other works and fixing of pipes		1						
		including cost of all								
		labour materials, T&P etc. complete Cost of inlet pipe 1200mm dia.				-				
		outlet pipe 1200mm dia overflow	)							
		pipe 500mm dia and washout							500.004	
		pipe 100mm dia with CI duck foot bends and sluice valve of each		Ls	1			500.000	500,000	
		size including cost of sluice			1				}	
		valve chambers etc. all complete								
			50.00							
		Total							1,500,000.00	
		31. EFFLUENT CHANNEL BETY	WEEN SST & CCT							
		1) Excavation Work								
		Excavation		m '	75.60			184.79	13,970.12	
		2) Plain Concrete work								
		Plain concrete		m³	5.46			6,364.94	34,752.57	
		3) RC concrete work						0,001121		
	,	RC Concrete	RCC Walls	m³	10.00	<del> </del>		12,715.80	127,158.00	
		KC, Concrete	x=x	m <sup>3</sup>	0.80			12,715.80	10,172.64	
			Plateform for inspection	m m <sup>3</sup>						
-		N. T. (101		m'	7.50	-		12,715.80	95,368,50	
		4) Form work/Shuttering	KCC WAUS							
		Form work	x-x	m²	80.00			360.80	28,864.00	
			х-у	m <sup>2</sup>	6.40	ļ		360.80	2,309.12	
			R.C.C. Stairs	m²	0.00			395.65	0.00	
			Plateform for inspection	m²	30.00			401.65	12,049.50	
		5) Re-bar work								
		Wall @1.25%		kg	1,059.75			70.96	75,197.10	
		6) Epoxy painting work								
		Epoxy painting		m2	32.00			121,15	3,876.80	
		Epoxy painting	channel	m2	40.00	†		121.15	4,846.00	
		7) Gate installation			15.50				.,	
		Providing and fixing 1.5m x 1.50				<del>                                     </del>	-			
		CI shice gates at exit of each SST.		No.	2.00			450,000.00	900,000.00	
		8) Miscellanious work								
		Misc Unforeseen items		Ls	1.0			4,500	4,500.00	
		Total				<del> </del>			1,313,064	
		Total			<b></b>	<del>                                     </del>			1,515,004	
		22 PERMITENT DISPOSAL COM	DUTE				10.0		-	
		32. EFFLUENT DISPOSAL CON	DOTE							
		1) Dismantling work								
		Dismantling of Bituminous road surface		$m^3$	7,500.00			159.05	1,192,875.00	
					<del> </del>	t				
		2) Excavation Work	į l		ì	1 '				

			g.,	11	0:	FC Portion (Yen)	LC Port	ion (INR)	p-c
		ltems	Specification	Unit	Qty	Unit Price Amount	Unit Price	Amount	Reference
			01.50m 03.00m B.G.I	m <sup>3</sup>	9,900.00		231.98	2,296,602.00	
		3) Earth filling	01.30m = 03.00m B,O,L		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			2,222,232	
		Earth filling	01.50m - 03.00m B.G.I	m <sup>3</sup>	3,300.00		945.01	3,118,533.00	
		4) Pipe and valve installation work	OT. SOM - OS. OOM B.G.L	ш	3,500.00	-		3,110,555.00	
	<del> </del>	PSC pipe 1200mm diameter (8Kg/sc	l	m	5,500.00		14,627.25	80,449,875.00	
		<u> </u>			3,500.00		11,027.23	00,715,075.00	
		C.I. double ball orifice type 200 mm dia Air Valve		No	6		24,375	146,250.00	
							1.007.161	2 104 221 04	
		1000 mm dia Scour/Drain Valve		No	2	<del> </del>	1,097,161	2,194,321.94	
		5) Thrust Block installation							
		30.00° bend		No	2		144,200	288,400.00	
		45.00° bend		No	4		258,900	1,035,600.00	,
	ļ	60.00° bend		No	1		306,200	306,200.00	
		75.00° bend		No	1		472,250	472,250.00	
		90.00° bend		No	4		617,900	2,471,600.00	
	ļ	6) Road work							
		Re-instatement of Bituminous road		m <sup>3</sup>	7,500		3,634	27,255,000.00	
		surface including its sub grade.			.,,		· · · · · · · · · · · · · · · · · · ·		
					<b></b>				
		Total						127,664,929	
		33. DG PLATEFORM & CONTR	OL ROOM			ļ			
		1) Excavation Work						ļ	
		Excavation	00.00m - 01.50m B G.I	m <sup>3</sup>	136.80		184.79	25,279.27	
		2) Plain Concrete work							
		Plain concrete		m <sup>3</sup>	9.90		6,364.94	63,012.91	
		3) RC concrete work							
		RC Concrete	Strip raft Foundation	m <sup>3</sup>	30.25		12,715.80	384,652.95	
			Horizontal Frames ( Beams) At Plinth Jevel	$\mathbf{m}^3$	7.43		12,715.80	94,414.82	
			<b>x</b> -y	m³	3.00		12,715.80	38,147.40	
				m³	10.50		12,715.80	133,515.90	
			At Lintel level x-x	m <sup>3</sup>	7.43		12,715.80	94,414.82	
			x-y	m³	3.00		12,715.80	38,147.40	
			At Top slab level x-x	m <sup>3</sup>	6.35		12,715.80	80,681.75	
				m <sup>3</sup>	3.00		12,715.80	38,147.40	
			x-y cannever ocam for fixing girder for movement of crane	m <sup>3</sup>	2.88		12,715.80	36,621,50	
				m <sup>3</sup>	15.00		12,715.80	190,737.00	
			Beams in roof slab vertical traines ( commiss) x-z	m <sup>3</sup>	26.40		12,715.80	335,697.12	
			1 2 2	m <sup>3</sup>	2.64		12,715.80	33,569.71	
				m <sup>3</sup>	5.28		12,715.80	67,139.42	
		-	y-z	m <sup>3</sup>	13.20		12,715.80	167,848.56	
			x-x	m <sup>3</sup>	2.40	<del>                                     </del>	12,715.80	30,517.92	
			x-y	m <sup>3</sup>	26.40	<del>                                     </del>	12,715.80	335,697.12	
_			Floor Slab	m <sup>3</sup>	29.74	<del>  </del>	12,715.80	378,117.03	
			Roof Siab	m m <sup>3</sup>	6,00		12,715.80	76,294.80	
		4) Form work/Shuttering	R.C.C. Stairs	ш.	0,00		12,713.00	70,274.00	
		Form work	Service P. 11	m <sup>2</sup>	35_00		196.45	6,875.75	·····
		A OTHER WOLK	Strip raft Foundation Horizontal Frames ( Beams )	<del></del>	<del></del>	<del> </del>		+	
			At Plinth level x-x	m²	64	-	332.15	21,373.85	
			x-y	m²	26.00		332.15	8,635.90	
			At Littlef level	m <sup>2</sup>	91	ļ	332.15	30,225.65	· .
		ļ	x-x	m <sup>2</sup>	64.35	ļ	332.15	21,373.85	
			X-y	m²	26	ļ	332.15	8,635.90	
			X-X	m <sup>2</sup>	54.99		332.15	18,264.93	
			x-y camnever beam for fixing	m <sup>2</sup>	26		332.15	8,635.90	
			girder for movement of crane	m <sup>2</sup>	27.00		332,15	8,968.05	
			Beams in roof slab	m²	130		332.15	43,179.50	
			X-Z	m²	176.00		453.35	79,789.60	
			v-z	m²	35		453.35	15,957.92	
			X-X	m <sup>2</sup>	66.00		360.80	23,812.80	
			x-y	m <sup>2</sup>	12		360.80	4,329.60	
			Floor Slab	m <sup>2</sup>	165.00	<del>                                     </del>	401.65	66,272.25	
			Roof Slab	m <sup>2</sup>	177		401.65	71,092.05	
		1	TUDOS SIND	1 44	1 - ' '		1	. 1,072.03	

	liems	Specification	Unit	Qty	FC Portio	ni (i en)	LC Portic	m (INK)	Reference
	nenis	Specification	Unit	Qiy	Unit Price	Amount	Unit Price	Amount	Reference
	5) Re-har work								
	Strip (ruft) Foundation @ 0,8%		kg	1,899.70			70.96	134,797,77	
	Wali @1.25%		kg	1,530.75			70.96	108,618.04	
	Slab @ 0.6%		kg	2,926.61			70,96	207,664 32	
	Benm @ 1,25%		kg	5,747.67			70,96	407,839,85	
	Columns @ 2%		kg	5,388,24			70.96	382,335,50	
	6) Masonary work								
	Brick work		m <sup>3</sup>	98.64			5,925.29	584,470.61	
	7) Plastering work								
	12mm thick plaster with cement and						(		
	Coarse and mortal in 1:4 over brick		m²	453,69			174 17	79,019.19	
	work  Struck pointing with coment mortur consisting coment and local sand in 1/2 including supply of all materials, labour., T&P etc. required for proper completion of work		m²	428,85			166.18	71,266.29	
	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs grade no.2 and M.S. top cover of required thickness for rolling shutters.		m²	36,00			2,528.62	91.030.32	
	shutters. Constitution of pil for installation of 10KL capacity underground oil tank		No	1			140,000.00	140,000.00	
	Construction of pillars for		No	5			50,000.00	250,000.00	
	installation of cooling towers.  Supply and fixing of ISMB 400 section on projected beams for movement of cranes including cost of labour, materials, T&P etc.		kg	2,033			60.00	121,968.00	
	Supply and fixing of Lightening conducter.		Ls	1			45,000.00	45,000.00	
	Providing and fixing ISI marked steel glazed doors, windows and ventilators of standard rolled steel sections, joints mitred and welded with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10m of 1:3:6 (1 cem3nt: 3 coarse sand: 6 grades stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and special metal sash putty of approved make complete including applying a priming coat of approved steel primer, excluding the cost of metal		m²	25.2			2,265.12	57,081 02	
	Construction of machine foundation/ fixing arrangements for various machinaries etc.		No	4			15,000	60,000.00	
ļ	Painting or Varnishing new iron work in small area or new wood work with one coat priming and two coat of approved paint or varnish including supply of all materials, labour and T&P etc. required for proper completion of work.	оог	m²	72			152.16	10,955.52	
		indows	m <sup>2</sup>	50		-	152,16	7,668.86	

	ltems	Specification	Unit	Qty	FC Portio	n (Yen)	LC Portion	on (INK)	Reference
	nems	Specification	Unit	Qiy	Unit Price	Amount	Unit Price	Amount	Kelefelice
	One priming coat and two coat of								
	dry distemper on new work		m²	97.80			111.31	10,886.12	
	including supply of all materials,								
 <del>-  </del> -	labour, T&P etc. required for proper One priming coat and two coats of				<del> </del>				
	water proof cement on new outer								
	surface of buildings including		m <sup>2</sup>	626.25			57.85	36,228.56	
	supply of all materials, labour and								
	T&P etc. required for proper Providing and laying Water proofing								
1000000									
	treatment on roofs of slabs by applying cement slurry mixed with				1				
	Armourcrete or Tapecrete or any					]			
	other approved quality admixture as			194			820	158,883.20	
	per specification laid down in DSR			17.			020	120,000.00	
	2002 and covering it with brick								
	masonary work 5 cm thick with tile								
	bricks in cement mortar 1-3 ( 1 Providing and fixing 1.00m high								
					Ì				
	Railing made up of of 25mm				1				
	diameter GI pipe (In three rows)			160			1,960	313,600.00	
	fixed with 75x50x6 MS angles including supply of all materials								
	labour and T&P etc for proper Provision for water supply, drainage								
	& sewerage arrangement in the								
	building and nearby area			1			637,203	637,202.56	
	includingsupply of all materials								
	labour and T&P etc for proper								
	completion of work. (@ 10% of the Misc unforeseen items			1	+		4.200	4,200,00	
 +	lviise unioreseen neurs			*			4,200	1,200.00	
 <del> </del>	Total							7,013,454.83	
	34. TRANSFORMER YARD								
 	1) Excavation Work				_				
 ļ	Excavation	00.00m - 01.50m B.G.I	m <sup>3</sup>	18.38			184.79	3,396.44	
 ļ	2) RC concrete work	F 11.0 F							
	RC Concrete	Foundation raft	m <sup>3</sup>	10.80			12,715.80	137,330.64	
 <b></b>		Plateform Slab	m <sup>3</sup>	7.20	-		12,715.80	91,553.76	
 		Columns	m <sup>3</sup>	2.00			12,715.80	25,431.60	
 	3) Form work/Shuttering								<del> </del>
	Form work	Foundation raft	m <sup>2</sup>	60.00	ļ	<u> </u>	196.45	11,787.00	
ļ		Plateform Slab	m <sup>2</sup>	14	1	ļ	401.65	5,783.76	
 		Columns	m <sup>2</sup>	176.00			453.35	79,789.60	
	4) Re-bar work	<u>.</u>							
 ļ	Foundation raft @ 0.8%		kg	678.24		ļ	70.96	48,126.15	
-	Plateform Slab @ 0.6%		kg	339.12 314.00	+		70.96 70.96	24,063.07 22,280.62	
 <del> </del>	Columns @ 2% 5) Masonary work		kg	314.00	-	-	70.90	22,260.02	
 +	Brick work		m3	5.64	<del> </del>		5,925.29	33,389.01	
 †	6) Plastering work			1	1			,	
	12mm thick plaster with cement and								
	Coarse sand mortar in 1:4 over brick		m2	58.80			174.17	10,241.20	
 1	work							ļ.	
 	7) Other works								
	Provision for pathways & drainage			Ø.					
	arrangement in the building and			V					
	nearby area including supply of all						50 000 00	60,000,00	
	materials labour and T&P etc for		Ls	1			50,000.00	50,000.00	
	proper completion of work.(@ 10%	-							
	of total cost)								
 ļ	Providing and fixing 1.00m high			-	The same				
	Railing made up of of 25mm								
	diameter GI pipe (In three rows)								
	fixed with 75x50x6 MS angles		m	49			1,960	96,040.00	
	including supply of all materials			12			.,,,,,,	25,010.00	
	labour and T&P etc for proper								
	completion of work.		- arms	and sources and					
	Provision for Cable trench.		m	50			800	40,000.00	
	Misc unforeseen items		Ls	1		-	500	500.00	-
 					1				
 +	Total			<del> </del>	+	+		679,712.85	
 	lotal			ļ	-			0/9,/14.83	
 						<b>1</b>	<b></b>	1	
 	35. METERING/HT ROOM				1				
	1) Excavation Work								
	Excavation	00.00m - 01.50m B.G.I	m <sup>3</sup>	67.50	1	1	184.79	12,473.33	

	Items	Specification	Unit	Qty	FC Portic	on (Yen)	LC Portio	on (Hvic)	Reference
	Herria	Specification	Omi	Qiy	Unit Price	Amount	Unit Price	Amount	Kelefellee
	2) Plain Concrete work								
	Plain concrete		m <sup>3</sup>	6,02			6,364.94	38,316.94	
	3) RC concrete work								
	RC Concrete	Strip (reft ) Foundation	m³	11.61			12,715.80	147,630.44	
		Hortzonial Prames (Beams) At Plinth level 5-5	m³	2.70			12,715.80	34,332,66	
			m³	1.17			12,715.80	14,877.49	
			m³	2,34			12,715,80	29,754.97	
			m <sup>3</sup>	2.70			12,715.80	34,332.66	
			m³	1.17			12,715.80	14,877.49	
			In <sup>3</sup>	2.70			12,715.80	34,332.66	
			m <sup>3</sup>	1,17			12,715.80	14,877.49	
			m <sup>3</sup>	2,25			12,715,80	28,610.55	
			m <sup>3</sup>	4.32			12,715.80	54,932.26	
			m <sup>3</sup>	0.86			12,715.80	10,986.45	
			m <sup>3</sup>	4,50			12,715.80	57,221.10	
			m	1.95			12,715.80	24,795.81	
			m'	19.50			12,715,80	247,958.10	
			m.i	18,71			12,715.80	237,925.33	
	4) Form work/Shuttering		1						
	Form work	Foundation raft	m <sup>2</sup>	65.04			196.45	12,777.11	
		Horizontal Frames (Beams ) At Plinth level x-x	m²	40.50			332.15	13,452.08	
		1	m²	11,70	0 10 15		332.15	3,886.16	
		1-1	m²	23,40	ļ		332.15	7,772.31	
		BIT INCTION	m <sup>2</sup>	27,00		-	332.15	8,968.05	
		1-1	m²	11.70			332,15	3,886.16	
-		N rop stan tever	m <sup>2</sup>	27.00			332,15	8,968.05	<del>-</del>
		χ-λ	m <sup>2</sup>	11.70			332.15	3,886.16	
		V-3.	m <sup>2</sup>	25.50			332,15	8,469.83	
		Beans in roof slab	m <sup>2</sup>	36.00	-		453,35	16,320.60	
		X-Z	m <sup>2</sup>	7.20	1		453.35	3,264.12	
		N.C.A. Wall for cause trench	m <sup>2</sup>	4.50			360.80	1,623.60	
		x-x	m m <sup>2</sup>	1.95	1		360.80	703.56	
		X-3	m <sup>2</sup>	97,50	1	-	401.65	39,160.88	
-		Floor Slab	m <sup>2</sup>	105.30	-		401.65	42,293.75	
	5) Re-bar work	Roof Slab	J11	103.50	ļ		101.03	12,230.13	
	Strip ( raft ) Foundation (a) 0.8%		kg	729.11			70.96	51,735.61	
	Wall (@1,25%)		kg	632.91	<del>                                     </del>		70.96	44,909.38	
	Slab @ 0.6%		kg	1,799.74	-		70.96	127,704.74	<del>.</del>
	Beam @ 1.25%	-	kg	1.589.63	1		70.96	112,795.66	
	Columns @ 1.5%		kg	813.89			70.96	57,751.38	
	5) Masonary work		_ K	615.07	ļ		70.50	37,731.30	
	Brick work		m3	32.71	<del>                                     </del>		5,925.29	193,816.24	
			111.5	32.71	<del> </del>		3,723.27	175,610.24	
	6) Plastering work 12mm thick plaster with cement and								
	Coarse sand mortar in 1:4 over brick work		m2	167.04			174.17	29,093.36	
	Struck pointing with cement mortar consisting cement and local sand in 1:2 including supply of all materials, labour,, T&P etc. required for proper completion of work.		m2	142.20			166.18	23,630.80	
	7) Steel works								
	Supplying and nxing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and		m2	7.20			2,528.62	18,206.06	
	outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs								

		CAL STATE OF THE REAL PROPERTY.		72.0		FC Portio	on (Yen)	LC Portio	on (INR)	D (
		Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
		Providing and fixing ISI marked								
		steel glazed doors, windows and ventilators of standard rolled steel								
		sections, joints mitred and welded								
		with 15x3mm lugs, 10cm long,						1		
		embedded in cement concrete								
		blocks 15x10x10m of 1:3:6 (1								
		cem3nt: 3 coarse sand: 6 grades stone aggregate 20mm nominal								
		size) or with wooden plugs and			21,60			2,265,12	48,926.59	
		screws or rawl plugs and screws or		m2	21.00			2,203.12	48,920.39	
		with fixing clips or with bolts and								
		nuts as required, including providing and fixing of glass panes								
		with glazing clips and special metal								
		sash putty of approved make								
		complete including applying a								
		priming coat of approved steel primer, excluding the cost of metal								
		heading and other fitting except.								
		Painting or Varnishing new iron work in small area or new wood								
		work with one coat priming and two								
		coat of approved paint or varnish		m2	14,40			152.16	2,191,10	
		including supply of all materials,								
		labour and T&P etc. required for proper completion of work.	Door							
		proper completion of work.	Windows	m2	43.20	<b>-</b>	<del> </del>	152.16	6,573.31	
		6) Epoxy painting work								
		Epoxy painting		m <sup>2</sup>	97.80			111,31	10,886.12	
		Epoxy painting		m <sup>2</sup>	339.60	-		57.85	19,645.86	<del> </del>
		Water proofing		m²	121.66			820,00	99,761.20	
		8) Other works								
		Provision for water supply, drainage & sewerage arrangement in the								
		building and nearby area								
		including supply of all materials		Ls	1			206,127.18	206,127.18	
		labour and T&P etc for proper completion of work. (@ 10% of the								
		cost of buildind)								
.,		Misc unforeseen items		Ls	1			1,300.00	1,300.00	
		Total							2,268,722.74	
		36. CONTROL ROOM BUILDIN				ļ				
		1) Excavation Work	G							
		Excavation	00.00m - 01.50m B.G.I	m <sup>3</sup>	67.40			184.79	12,454.85	· · · · · · · · · · · · · · · · · · ·
		2) Plain Concrete work	00.00m = 01,30m B_0,1		0	1	<del> </del>			
	<b></b>	Plain concrete		m <sup>3</sup>	10.40	1		6,364.94	66,195.38	
		3) RC concrete work	,							
		RC Concrete	Strip (raft ) Foundation	m <sup>3</sup>	32.50			12,715.80	413,263.50	
			Horizontal Frames (Beams ) At Plinth level x-x	m <sup>3</sup>	7.80			12,715.80	99,183.24	
	1		X-y	m <sup>3</sup>	2.10	-	<del> </del>	12,715.80	26,703.18	
	<u> </u>		12.7	m <sup>3</sup>	5.25	+	+	12,715.80	66,757.95	
	<del> </del>		X Chac level	m <sup>3</sup>	7.80	+		12,715.80	99,183.24	
				m <sup>3</sup>	1.95	1	<u> </u>	12,715.80	24,795.81	
	-		x-y xt top state level x-x	m <sup>3</sup>	7.20	1	<u> </u>	12,715.80	91,553.76	
	1		x-y	m <sup>3</sup>	2.10			12,715.80	26,703.18	
			Beams in roof slab	m <sup>3</sup>	3.68	+		12,715.80	46,730.57	
			vertical traines ( Columnes)	m <sup>3</sup>	11.76			12,715.80	149,537.81	
			y-z	m <sup>3</sup>	1.68			12,715.80	21,362.54	······································
	1		X-X	m <sup>3</sup>	7.80			12,715.80	99,183.24	
············	<u> </u>		x-y	m <sup>3</sup>	2.10		<del> </del>	12,715.80	26,703.18	
			Floor Slab	m <sup>3</sup>	36.40	<b>†</b>	1	12,715.80	462,855.12	
			Roof Slab	m <sup>3</sup>	33.46	1		12,715.80	425,419.80	+
		4) Form work/Shuttering				<b>†</b>				
		Form work	Foundation raft	m <sup>2</sup>	13.00			196,45	2,553.85	
	<b>†</b>		At Plinth level x-x	m²	101.40		1	332.15	33,680.01	

		Name of the last o	1100	Our	FC Portio	n (Yen)	LC Portio	on (INR)	Reference
	Items	Specification	Unit	Qıy	Unit Price	Amount	Unit Price	Amount	Keterence
		ALCOHOLD NAME	m²	46			332.15	15,112.83	
		X-X	m²	68			332.15	22,453.34	
		X-)	m²	18			332,15	6,045.13	
		X+X	m <sup>2</sup>	62			332.15	20,726,16	
		х-у	m <sup>2</sup>	18			332,15	6,045.13	
		Beams in roof slab	m <sup>2</sup>	42			332.15	13,834.05	
		1-2	m²	78			453,35	35,542.64	
		y-z	m <sup>2</sup>	11			453.35	5,077.52	
		X-X	m <sup>2</sup>	52			360.80	18,761.60	
17		X-1	m²	14			360.80	5,051,20	
		Ploor State	m²	169			401.65	67,878,85	
		Roof Slab	m²	223			401.65	89,584.02	
	5) Re-bar work								
	Strip ( raft ) Foundation @ 0.8%		kg	2,041,00			70,96	144,824.05	
	Wall @1.25%		kg	971.44			70,96	68,930.68	
	Slab @ 0.6%		kg	3,290.22			70,96	233,465.29	
	Beam @ 1.25%		kg	3,716.48			70.96	263,712.07	
	Columns @ 2%		kg	2,110.08			70.96	149,725.79	
	5) Masonary work								
	Brick work		m3	37.76			5,925.29	164,486.05	
	6) Plastering work								
	12mm thick plaster with cement and						171.17	26 248 70	
	Coarse sand mortar in 1.4 over brick work		m2	145,54			174.17	25,348,70	
	Struck pointing with cement mortar		-					1	
	consisting cement and local sand in						1 10	20.057.02	
	1:2 including supply of all materials,		m2	120.70			166.18	20,057.93	
	labour., T&P etc. required for								
	7) Steel works								
	Supplying and fixing folling shuffers		1						
	of approved make, made of required size M.S. laths interlocked together								
	through their entire length and						9		
	jointed together at the end by end								
	locks mounted on specially designed			7,20			2,528.62	18,206.06	
	pipe shaft with brackets, side guides and arrangements for inside and		m2	7.20			2,0,02	18,200.00	
	outside locking with push and pull								
	operation complete including the								
	cost of providing and fixing								
	necessary 27.5cm long wire springs								
	steel glazed doors, windows and								
	ventilators of standard rolled steel								
	sections, joints mitred and welded								
	with 15x3mm lugs, 10cm long,				1				
	embedded in cement concrete blocks 15x10x10m of 1:3:6 (1								
	cem3nt; 3 coarse sand; 6 grades								
	stone aggregate 20mm nominal		m2	21.60			2,265.12	48,926.59	
	size) or with wooden plugs and						-,	,.	
	screws or rawl plugs and screws or with fixing clips or with bolts and								
	nuts as required, including								
	providing and fixing of glass panes								
	with glazing clips and special metal								
	sash putty of approved make complete including applying a								
	Painting or Varnishing new iron								
	work in small area or new wood								
	work with one coat priming and two		-2	14.40			152.16	7 101 10	
	coat of approved paint or varnish		m2	14.40			132.10	2,191.10	
	including supply of all materials,	Door							
	labour and T&P etc. required for	Windows	<b>m</b> 2	43.20		-	152.16	6,573.31	
	6) Epoxy painting work	AN THEOMP		1				-,- / - / -	
	Epoxy painting  Epoxy painting		m²	97.80			111.31	10,886.12	
			m <sup>2</sup>	318.00			57.85	18,396.30	
	Epoxy painting Water proofing		m m <sup>2</sup>	219.76			820.00	180,203.20	
	Water proofing  8) Other works		m	217./0			02U.UU	100,203.20	

A STATE OF THE STA	D 10 11	11.50	0:	FC Portic	n (Yen)	LC Porti	on (INR)	Reference
ltems	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Keierence
Provision for water supply, drainage								
& sewerage arrangement in the								
building and nearby area		Ls	1			386,292.28	386,292.28	
includingsupply of all materials labour and T&P etc for proper		1						
completion of work (@ 10% of the				ļ			ì	
Misc unforeseen items		Ls	1			2,300.00	2,300.00	
Total							4,251,503.33	
37. STAFF QUARTER								
A type quarters		m <sup>2</sup>	25.00			20,700.00	517,500.00	
B type quarters		m <sup>2</sup>	42.00			20,700.00	869,400.00	
C type quarters		m <sup>2</sup>	80.00			20,700.00	1,656,000.00	
 D type quarters		m <sup>2</sup>	128.00			20,700.00	2,649,600.00	
 D type quarters		- m	120.00			20,700.00	2,013,000	
Total		+					5,692,500	
							<del>                                     </del>	
38. CAMPUS ROAD		1						
Construction of Bituminous road		7	22 400 00			2 (24.00	BE 035 (00 00	
including GSB, WBM, BM &		m²	23,400.00			3,634.00	85,035,600.00	
39. OUTFALL STRUCTURE								
1) Excavation Work								
Excavation		m <sup>3</sup>	29.70			138.82	4,122.95	
2) Plain Concrete work								
Plain concrete		m <sup>3</sup>	1.35			3,634.00	4,905.90	·
		m <sup>3</sup>	1.35			3,634.00	4,905.90	
3) RC concrete work								
 RC Concrete	for Block	m <sup>3</sup>	55.77			8,557.16	477,219,98	<del></del>
 TC CORFICE		m <sup>3</sup>	-18.57			8,557.16	-158 879 25	
	Deduction for pipe	m <sup>3</sup>	19.89			8,557.16	170,201.91	
 _	Wall				<del> </del>			
	Wall	m <sup>3</sup>	9.00			8,557.16	77,014.44	
	raft	m <sup>3</sup>	5.96			8,557.16	51,022.07	
5) Re-bar work	ļ							
@ 100Kg per CU M		kg	7,205.42			70.96	511,277.73	
4) Form work/Shuttering								
Form work	Foundation raft	m²	91.80			360.80	33,121.44	
	Dry stone pitching	m <sup>2</sup>	40.00			422.80	16,912.00	
	22.5 cm thick						<del> </del>	
T.4-1		-		-	<del>                                     </del>		1,191,825	
Total		+		<del> </del>	<b></b>		1,191,623	
 40 Pin - Pontanti XXI B		-	-					
 40. Pipe Protection Wall	-	+	<u> </u>				+	
 1) Excavation Work		<del></del>			-	100.00	101005	
Excavation		m <sup>3</sup>	9.00			138.82	1,249.38	
2) Plain Concrete work			<b></b>		1			
Plain concrete		m <sup>3</sup>	0.30	<u> </u>		3,483.63	1,045.09	
3) RC concrete work								
RC Concrete	for Wall	m <sup>3</sup>	5.40			8,557_16	46,208.66	
	Deduction for pipe	m <sup>3</sup>	-1.21			8,557.16	-10,354.16	
5) Re-bar work								
@ 100Kg per CU M		kg	419.42			70.96	29,760.95	
4) Form work/Shuttering			1					
Form work		m <sup>2</sup>	18,00			360.80	6,494.40	
		m <sup>2</sup>	3.60		<b>†</b>	360.80	1,298.88	
		- m	1	1	+		-,	
Sub-total				+			75,703.20	
 			4.00	+	+	75,703.20	302,812.80	
Total		pc	4.00		+	13,703.20	302,012.00	
 	L .		-			-	+	
 41. RAMP FOR ENTERING IN P	LANT			ļ		+		
1) Earth work		1	1	1		1		

Items	Specification	Unit	Ow	FC Portio	n (Yen)	LC Portic	on (INR)	Reference
1103118	Specification	Unit	Qty.	Unit Price	Amount	Unit Price	Amount	Kelerence
Surface diessing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead		m²	20.00			1,245.75	24,915,00	
 unio 50 m and lift unto 1.5 m.		)	2 212 40	-		142.11	150 717 00	· · · · · · · · · · · · · · · · · · ·
Supply of good soil		m <sup>3</sup>	2,812.50	-		163.11	458,746.88	
 Soil transportation	upto 10km	m <sup>3</sup>	2,812.50			210,77	592,790.63	
 Embankment		m <sup>3</sup>	2,812,50			241,70	679,781.25	
2) Masonary work								
Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete assemble to the complete assem		m²	из0.00			422.80	350,924.00	
and coarse sand mortar in foundation & plinth including supply of all materials, labour. T&P etc. required for proper completion		m²	34.50			5,925,29	204,422.51	
12mm thick plaster with cement mother in proportion (1:4) cement & local sand over brick-work minimum thickness not to be less than 10mm, including supply of all materials, labour and T&P etc. required for proper completion of	in parapet wall (sides)	m'	300,00			145.30	43,590,00	
wak	in parapet wall (Top)	m³	46 00			145,30	6,683.80	
3) Concrete work				1				
Concrete with 40 mm gauge brick hallast, local sand and cement in proportion of (10:5:1) in foundations and floors including supply of all materials, labour, T&P etc. required for proper completion of the work.	in road	m²	35.04			3,483.63	122,066.40	
Cement concrete with cement, coarse sand and approved stone ballast in the proportion of 1:2:4 (1 Cement 2 coarse sand 4 graded stone aggregate 20 mm nominal size) including supply of all materials, labour, T&P etc. required for proper completion of the work.		m²	52.55			8,557.16	449,678.76	
Brick soling with straight over burnt bricks & dry with brick edging laid vertical on either side, filling the Joints with local earth.		m³	150.15			338.09	50,764.21	
Sub-Total							2,984,363	
Total			2.00			2,984,363.44	5,968,726.88	
42. EARTHEN BUNDH								
1) Earth work								
Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m		m³	0.20			1,245.75	249.15	
Supply of good soil		m <sup>3</sup>	0.04			163.11	6,52	
Soil transportation	upto 10km	m <sup>3</sup>	0.04			210,77	8.43	
Embankment		$\mathbf{m}^3$	0.04			241.70	9.67	
2) Masonary work								
Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.  Concrete with 40 mm gauge brick		m <sup>2</sup>	8.30			422.80	3,509.24	
ballast, local sand and cement in proportion of (10:5:1) in foundations and floors including supply of all materials, labour, T&P etc. required for proper completion		$\mathbf{m}^3$	0.62			3,483.63	2,159.85	
 Sign and the state of the state		m³	0.15			3,483.63	522.54	

N - I I SEV		No. of the Control of	1	IN DIE	FC Portic	n (Yen)	LC Porti	on (INR)	D.C
MALE	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	 Cement concrete with cement, coarse sand and approved stone ballast in the proportion of 1:2:4 (1 Cement: 2 coarse sand: 4 graded		m <sup>3</sup>	1.25			8,557.16	10,696.45	
	stone aggregate 20 mm nominal size) including supply of all materials, labour, T&P etc. required								
			$m^3$	0.30			8,557.16	2,567.15	
			m <sup>3</sup>	0.30			8,557.16	2,567.15	
	 Cost per meter							22,296	
	 	Total	m	2,500.00			22,296.15	55,740,375.00	
	 43. PIPE PROTECTION ALONG	DIVED CANCA	• • •						
	 1) Pile Installation	ATTER GANGA						· · · · · · · · · · · · · · · · · · ·	
	 Pile Installation	Dia. 300mm	m	200.00			2,123,15	424,630.00	
	 2) RC Concrete work	Dia. Soomii						, , , , , , ,	
	 RC Concrete	i. in Cradle/Cantilever	m³	7.60			12,715.80	96,640.08	
		beam	ш	7.00			,, 15.00	75,040.00	
	 3) Re-bar installation work	,	1.	1.412.00			70.06	100 210 57	
	Re-bar installation	i. in pile ii. in Cradle/Cantilever	kg	1,413.80			70.96	100,319.57	
		beam	kg	760.00			70.96	53,927.62	
	 total							675,517	
	 44 Min. H	James and District Aff				-			
	 44. Miscellaneous Works at MPS NAGWA	agwa and Kising Mair	1			-		-	
	 Cleaning of silt from screening								
	channel at Nagwa MPS and		Ls	1			550,000.00	550,000.00	
	provision for fixing of mechanical screens and other related works.								
	 B Rising Main								
	 Cleaning of silt from 1000mm Dia		m <sup>3</sup>	117.81			5,683.70	669,596.70	
	 Rising main Excavation	00.00 01.60 P.G.Y	m <sup>3</sup>	517.50			184,79	95,628.83	
	 Excavation	00.00m - 01.50m B.G.I 01.50m - 03.00m B.G.I	m m <sup>3</sup>	189.00			231.98	43,844.22	
	 Pipe installation	PSC pipe 1000mm	m3	150.00			14,107.50	2,116,125	
		diameter (8Kg/sqm)  C.I. double ball							
	 Valve installation	orifice type 200 mm dia Air Valve	No	2			24,375.00	48,750	
		600 mm dia Scour/Drain Valve	No	2			314,448.02	628,896	
	 C Rising Main Protection work along		Ls	1.00			675,522.93	675,523	
	 Total							4,828,364	
	45. Boundary Wall				-				
	 Construction of boundary wall		m	4,500.00			14,330.00	64,485,000.00	
	 3 6m wide gate		No	3,00		1	90,000.00	270,000.00	
-	site development and land scaping		m²	80,000.00			45.00	3,600,000.00	
								68,355,000	
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		23	L 23/0	FC Portio	n (Yen)	LC Port	ion (INR)	
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
Direct Cost]								
Mechanical/Electrical work								
Electrical works		рс	1		0		208,657,320.00	
		рс	1	<u> </u>	0		20,030,142.00	
				1				
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							228,687,462	
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				FC Portio	on (Yen)	LC Porti	on (INR)	
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
Electrical/ Mechanical work>		TAL				TOUT THE	ACTIONS (1997)	
Mechanical works								
NLET GATE	Equipment cost	No.	3			600,000	1,800,000.00	
1000000	Installation cost	No.	3			12,000	36,000.00	
							0.00	- Andrews
TNE SCREEN (MECHANICAL)	Equipment cost	No.	2			3,360,000	6,720,000.00	
	Installation cost	No.	2			67,200	134,400.00	
A STATE OF THE STA							0.00	
FINE SCREEN (MANUAL)	Equipment cost	No.	1			500,000	500,000.00	
	Installation cost	No.	1			10,000	10,000.00	
							0.00	
BELT CONVEYOR	Equipment cost	No.	1			400,000	400,000.00	
	Installation cost	No.	1			8,000	8,000.00	
							0.00	
GRIT CHAMBER	Equipment cost	No.	2			1,700,000	3,400,000.00	
	Installation cost	No.	2			34,000	68,000.00	
							0.00	
PRIMARY CLARIFIER	Equipment cost	No.	2			4,460,000	8,920,000.00	
	Installation cost	No.	2			89,200	178,400.00	
							0.00	
PRIMARY SLUDGE PUMP	Equipment cost	No.	4			300,000	1,200,000.00	
	Installation cost	No.	4			6,000	24,000.00	
							0.00	
MIXER FOR ANOXIC TANK	Equipment cost	No.	8			890,000	7,120,000.00	
	Installation cost	No.	8			17,800	142,400.00	
The state of the s							0.00	
DIFFUSER	Equipment cost	No.	2			3,321,000	6,642,000.00	
	Installation cost	No.	2			66,420	132,840.00	
							0.00	
AIR BLOWER	Equipment cost	No.	4			756,000	3,024,000.00	
	Installation cost	No.	4			15,120	60,480.00	
							0.00	
CIRCULATION PUMP	Equipment cost	No.	6			1,100,000	6,600,000.00	
	Installation cost	No.	6			22,000	132,000.00	
11-11-11							0.00	
RAS Pump	Equipment cost	No.	6			720,000	4,320,000.00	
	Installation cost	No.	6			14,400	86,400.00	
							0.00	
SAS Pump	Equipment cost	No.	4			340,000	1,360,000.00	
	Installation cost	No.	4			6,800	27,200.00	
							0.00	
HAND OPERATED CHAIN BLOC	Equipment cost	No.	3			100,000	300,000.00	

			e e e e	FC Portio	n (Yen)	LC Port	ion (INR)	
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Installation cost	No.	3			2,000	6,000.00	
							0.00	
SECONDARY CLARIFIER	Equipment cost	No.	2			8,400,000	16,800,000.00	
	Installation cost	No.	2			168,000	336,000.00	
							0.00	
CHLORINATOR	Equipment cost	No.	2			4,500,000	9,000,000.00	
	Installation cost	No.	2			90,000	180,000.00	
							0.00	
BOOSTER PUMP FOR CHLORINATOR	Equipment cost	No.	2			4,500,000	9,000,000.00	
	Installation cost	No	2			90,000	180,000.00	
							0.00	
CHLORINE TONNERS	Equipment cost	No.	11			160,000	1,760,000,00	
	Installation cost	No.	11			3,200	35,200.00	
						[	0.00	
EVAPOLATOR	Equipment cost	No.	1			ļ	0.00	
	Installation cost	No.	1				0.00	
							0.00	
ELECTRIC HOIST	Equipment cost	No.	1			400,000	400,000.00	
	Installation cost	No.	1			8,000	8,000.00	
							0.00	
SLUDGE THICKENER	Equipment cost	No.	2			2,200,000	4,400,000.00	
	Installation cost	No.	2			44,000	88,000.00	
							0.00	
AIR BLOWERTHICKENED SLUDGE SUMP	Equipment cost	No.	2			150,000	300,000.00	
	Installation cost	No.	2			3,000	6,000.00	
							0.00	
THICKENED SLUDGE FEED PUMP	Equipment cost	No.	4			.340,000	1,360,000,00	
	Installation cost	No.	4			6,800	27,200.00	
							0.00	
MIXER FOR DIGESTER	Equipment cost	No.	2			11,400,000	22,800,000.00	
	Installation cost	No.	2			228,000	456,000.00	
							0.00	
BIOGAS POWER GENERATOR	Equipment cost	No.	2			26,000,000	52,000,000.00	
	Installation cost	No.	2			520,000	1,040,000.00	
							0.00	
DESULFURIZATION EQUIPMENT	Equipment cost	No.	2			10,000,000	20,000,000 00	
	Installation cost	No.	2			200,000	400,000,00	
							0.00	
BOIGAS HOLDER	Equipment cost	No.	2			6,000,000	12,800,000,00	
	Installation cost	No.	2			120,000	240,000.00	
							0,00	
BIOGAS FLARE	Equipment cost	No.	2	1		1.000,000	2,000,000.00	

				FC Portio	on (Yen)	LC Por	P 3	
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Installation cost	No.	2			20,000	40,000.00	
							0.00	
LTRATE TRANSFER PUMP	Equipment cost	No.	2			220,000	440,000.00	
	Installation cost	No.	2			4,400	8,800.00	
							0.00	
							208,657,320.00	
William I								
Electrical works	A CONTRACTOR OF THE CONTRACTOR						1	
Electrical Substation for Headworks and primary clarifiers	0.00.00000							
nlet Flow Meter	Equipment cost	No.	1			162,500	162,500.00	
Iltrasonic type level transmitter with level-flow converter Partial flume	Installation cost	No.	1			16,300	16,300.00	
		1			-	74.000	0.00	
evel Meter in Inlet Chamber	Equipment cost	No.	1	-		74,800 7,500	74,800.00	
ubmersible hydrostatic type, range: 0-10m, accuracy: less than +-0.5% FS	Installation cost	No.	1		-	7,500	7,500.00	
evel Meter at Pre-fine screen	Equipment cost	No.	2			105,000	210,000.00	
Ultrasonic type, range: 0-10m, accuracy: less than +-0.5%FS	Installation cost	No.	2			10,500	21,000.00	
							0.00	
evel Meter at Post-fine screen	Equipment cost	No.	2			105,000	210,000.00	
Ultrtrasonic type, range: 0-10m, accuracy: less than +-0.5%FS	Installation cost	No.	2			10,500	21,000.00	
							0.00	
evel Meter at Primaly Sump	Equipment cost	No.	1			105,000	105,000.00	
Utrtrasonic type, range: 0-10m, accuracy: less than +-0.5%FS	Installation cost	No.	1			10,500	10,500.00	
							0.00	
Primary Sludge Flow Meter	Equipment cost	No.	1			424,600	424,600.00	
Electromagnetic type, 200mm dia., accuracy: less than +-0.5% of rate ange: 0-10 m/sec	Installation cost	No.	1			42,500	42,500.00	
ange. 0-10 m/see	And the state of t						0.00	
PLC Panel at Substation	Equipment cost	No.	1			750,000	750,000.00	
Redundant hot standby configuration, LCD 14" touch panel IP 62, AI: 10,		No.	1			15,000	15,000.00	
AO; -, DI: 120, DO:40, Pulse input:4	Installation cost	140.				15,000		
	A HEALTH						0.00	
JPS	Equipment cost	No.	1		<u> </u>	150,000	150,000.00	
P52, Inverter 5kVA, Battery 100AH Lead sealed type, Industrial use,	Installation cost	No.	1	1		15,000	15,000.00	
							0.00	
Cables and others	Equipment cost	No.	1			250,000	250,000.00	
	Installation cost	No.	1			25,000	25,000.00	
Blower House								
or liquid process								
DO Analyser	Equipment cost	No.	2			319,670	639,340	
On-line, LDO type, range: 0-1 mg/l, accuracy: less than +-0.5%FS	Installation cost	No.	2			32,000	64,000	

			Tall Fa	FC Portio	n (Yen)	LC Porti	on (INR)	
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
MLSS Analyser	Equipment cost	No.	1			335,000	335,000	
On-line, Transmitted light detective type	Installation cost	No	1			33,500	33,500	
MLR Flow Meter	Equipment cost	No.	2			51 <b>5</b> ,200	i_030_400	
Electromagnetic type, 500mm dia., accuracy: less than +-0.5% of rate	Equipment cost	-						
таnge: 0-10 <b>m</b> /sec	Installation cost	No.	2			51,600	103,200	
RAS Flow Meter	Equipment cost	No.	2			515,201	1,030,402	
Electromagnetic type, 500mm dia., accuracy: less than +-0.5% of rate range: 0-10 m/sec	Installation cost	No.	2			51,600	103,200	
Air blowe flow	Equipment cost	No.	1		i	302,700	302,700	
Ultrtrasonic type, range: 0-10m/s, accuracy: less than +-1.0%FS	Installation cost	No.	1			30,300	30,300	
				1				· · · · · · · · · · · · · · · · · · ·
Air blowe pressure	Equipment cost	No	2			142,200	284,400	
Diaphram range: 0-2 bar	Installation cost	No.	2			14,300	28,600	
Effluent Flow Meter at citorine contact tank	Equipment cost	No.	1		<u> </u>	162,500	162,500	
Ultrasonic type level transmitter with level-flow converter Weir	Installation cost	No.	1	<del> </del>		16,300	16,300	
Residual Chlorine Analyser	Equipment cost	No.	1			425,000	425,000	
Polarographic type, range: 0-3 mg/l, accuracy: less than +-1.0% continuous self cleaning system	Installation cost	No.	1			42,500	42,500	
T. 126 - 040 T. 10		-			<u> </u>	207.000	204 200	
Level Meter in SAS Feed Sump	Equipment cost	No.	1	-		205,000	205,000	
Ultrtrasonic type, range: 0-10m, accuracy: less than +-0.5%FS	Installation cost	No.	1	<del>                                     </del>		20,500	20,500	
PLC Panel at Substation	Equipment cost	No.	1	<del> </del>		850,000	850,000	
Redundant hot standby configuration, LCD 14" touch panel IP 62, AI: 10, AO8; -, DI: 100, DO:40, Pulse input:4	Installation cost	No.	1			17,000	17,000	
					İ			
UPS	Equipment cost	No.	1			150,000	150,000	
IP52, Inverter 5kVA, Battery 100AH Lead sealed type, Industrial use,	Installation cost	No.	1			15,000	15,000	
		-		<del> </del>		250,000	250.000	
Cables and others	Equipment cost	No.	1	1		350,000	350,000	
	Installation cost	No.	1			35,000	35,000	
Solid Process		+	-					
SAS Flow Meter	Equipment cost	No.	1			424,600.00	424,600	
Electromagnetic type, 400mm dia., accuracy: less than +-0.5% of rate range: 0-10 m/sec	Installation cost	No.	1			42,500	42,500	
Thickener Feed Flow Meter	Equipment cost	No.	2			219,900.00	439,800	

	The state of the s			FC Portion (Yen)		LC Portion	on (INR)	at partie 1/1
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
Electromagnetic type, 200mm dia, accuracy: less than +-0.5% of rate		N.				22.000	44.000	
range: 0-10 m/sec	Installation cost	No.	2			22,000	44,000	
Level Meter in Thickened Sludge Feed Sump	Equipment cost	No.	1			97,500.00	97,500	
Ultrtrasonic type, range: 0-10m, accuracy: less than +-0.5%FS	Installation cost	No.	1	ļ		9,800	9,800	
								00-1
Level Meter in Digester Feed Sump	Equipment cost	No.	2			97,500.00	195,000	
Ultrtrasonic type, range: 0-10m, accuracy: less than +-0.5%FS	Installation cost	No.	2			9,800	19,600	
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Digester Feed Flow Meter	Equipment cost	No.	2			302,700	605,400	
Electromagnetic type, 300mm dia., accuracy: less than +-0.5% of rate range: 0-10 m/sec	Installation cost	No.	2			30,300	60,600	
Level Meter in Digester	Equipment cost	No.	2			325,000	650,000	
Differential Pressure type, range: 0-10m, accuracy: less than +-0.5%FS	Installation cost	No.	2			32,500	65,000	
Differential Freshold type, failige, o Tolli, accounts, less alair visiting	Histanauon vost	1 111						
Temperature in Digester	Equipment cost	No.	6	1		56,700.00	340,200	
Resistance Tepmerature Detector type, PT100	Installation cost	No.	6	+	-	5,700	34,200	
Resistance repinerature Detector type, 1 1100	Instantion cost			1		,	, in the second	
Generated Biogas Flow Meter	Equipment cost	No.	1		<u> </u>	568,700.00	568,700	
Ultrasonic type, 500mm dia, accuracy: less than +-0.5% of rate range: 0-	Equipment cost							
10 m/sec	Installation cost	No.	1			56,900	56,900	
Biogas Pressure Meter	Equipment cost	No.	1			142,200.00	142,200	
Diaphram range: 0-2 bar	Installation cost	No.	1			14,300	14,300	
Diapinian range. 0-2 car	Institution cost							
Filtrate Flow Meter	Equipment cost	No.	1			302,700.00	302,700	
	Equipment cost							
Electromagnetic type, 300mm dia., accuracy: less than +-0.5% of rate range: 0-10 m/sec	Installation cost	No.	1			30,300	30,300	
Titilge, 0-10 112 see	instanation cost			-	-			
PLC Panel for solid process	Equipment cost	No.	1			750,000	750,000	
Redundant hot standby configuration, LCD 14" touch panel IP 62, AI: 20,		No.	1			15,000	15,000	
AO; 5, DI: 90, DO:50, Pulse input:-	Installation cost	110.				10,000		
		No.	1			150,000.00	150,000	
UPS	Equipment cost	No.	1			15,000	15,000	
IP52, Inverter 5kVA, Battery 100AH Lead sealed type, Industrial use,	Installation cost	- 140.		<del> </del>	-	12,000	,	*****
		No.	1	1		250,000	250,000	
Cables and others	Equipment cost	No.	1	+	<del>                                     </del>	25,000	25,000	
	Installation cost	140.	1		<del>                                     </del>	23,000	25,000	
					<del> </del>		0	
SCADA System		No.	2			1,500,000	3,000,000	
Operator Station				-		1,500,000		
OS: Lates windows, Main memory: 64 GB, HDD, 1 TB Monitor: dual LCD 32", CPU: Intel iCore 7, required software		No.	2			30,000	60,000	

				FC Portio	n (Yen)	LC Porti	on (INR)	
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Атоил	Reference
SCADA Servers		No.	1			1,250,000	1,250,000	
Hot syandby configuration, Tag No.: over than 50,000 Windows server 2010, Software included		No	1			25,000	25,000	
UPS		No.	1			850,000	850,000	
IP52, Inverter 12kVA, Battery 100AH Lead sealed type, Industrial use,		No.	1	1		85,000	85,000	
MANAGED Ethernet switches,		No.	<u> </u>			85,000	85,000	
		No.	1	-		1,700	1,700	
Priner -1		No.	1			130,000,00	130,000	
Multifunction clor printer with printing, photocpying, scaaning etc.,		No.	1	<b>†</b>		2,600	2,600	
Priner -2		No.	1			50,000,00	50,000	
Laserjet printer with A3 size		No.	1	<b></b>		1,000	1,000	
Hardware based Firewall		No.	1			200,000	200,000	
		No.	1	1		4,000	4,000	
RJ-45 Copper cables + FOC		No.	1			150,000	150,000	
		No.	1			3,000		5,897,300
		2001				.,000	0	5,071,500
Total				<del>                                     </del>			20,030,142	
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				FC Portio	on (Yen)	LC Portio	on (INR)	
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
[Direct Cost]								
Civil/Building work>								
[Direct Cost]								
Other works								
Cost of sewer cleaning equipments, Flu	ıshing Van	рс	1	1			1,000,000.00	
Hiring of Godown and Site Office		рс	1	1			1,500,000 00	
Communication & Public Outreach		рс	1				1,000,000	
Environmental and Management Plan	(EMP)	рс	1	<b>—</b>			67,380,000	
Governance and Accountibility Action		pc	1				500,000	
Jove Bulletin Bulleti	(0.2.2.)	-		<del> </del>				
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Sub-Total				ļ	0		71,380,000	
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## 6. Mirzapur

## Summary - Mirzapur Comprehensive

West Committee of the C	6. 315	F 1012	0	FC Port	ion (Yen)	LC F	Portion (INR)	Reference
Items	Specification	Unit	Qty	Unit	Amount	Unit	Amount	Reference
Sewer and appurtenance work		LS	1	-			2,194,414,622	
14MLD STP Civil work	1	LS	1	1	<del> </del>		45,329,460	
14MLD STP Mechanical work	1	LS	1	<del> </del>			52,530,000	
14MLD STP Electrical work	1	LS	1	1			23,019,100	
18 MLD STP Civil works	1	LS	1				170,329,805	
18 MLD STP Mechanical works	1	LS	1				88,199,600	
18 MLD STP Electrical works		LS	1				35,359,400	
MPS Civil works		LS	1	1			30,974,468	
IPS-1		LS	1				14,764,850	
IPS-2		LS	1				26,085,150	
IPS-3		LS	1				7,262,405	
MPS-4		LS	1				10,096,024	
6 MLD		LS	1				57,466,915	
IPS-5		LS	1				13,784,840	
IPS-6		LS	1				19,806,958	
IPS-7		LS	1				23,209,172	
IPS-8		LS	1				22,727,669	
Hiring of Godown and Site Office	1	LS	1				4,000,000	
Communication & Public Outreach		LS	1				8,000,000	
Environmental and Management Plan	(EMP)	LS	1				1,000,000	
Governance and Accountibility Action	Plan (GAAP)	LS	1				26,000,000	
Cost of sewer cleaning equipments, Flo	ushing Van	LS	1				1,848,000	
Total							2,876,208,438	
						A CONTRACTOR OF THE PARTY OF TH		1000

## SEWER AND APPURTENANCE WORKS

Items	Specification	Unit	Qty	PC Portio	m (Yen)	LC Por	ion (INR)	Reference
Henra	appointantan	Chit	Qty	Unit Price	Amount	Unit Price	Amount	Kererence
[Direct Cost]								
Civil/Building work>								
.1 Sewer Lnying		pe	1	-			523,155,870 11	
L2 EARTH WORK (SEWER)		pe	1			***	287,979,024.75	
.3 TIMBERING WORK		ре	1				254,733,757 88	
.4 BEDDING WORK		pe	1				160,199,187 96	
.5 SUPPLY & LAYING OF R.C.C. P	11.007	-	1	-			290,101,084,80	
.6 MICRO TUNNELING	11 6	pc pc	1				30 015 301.37	
		pe		-				
.1 CIRCULAR BRICK MANHOLE . HOUSE CONNECTING		br	1	-			531,953,793.52	
THAMBER		pe	1	-		/	112,638,467,64	
. BARRICADING		pu	1	-			1,467,000 00	······································
. MISCELLANEOUS		pe	1				2,171,134,24	
Sub-Total			1		0		***************************************	
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		Specification	Unit	Qty	FC Portio	n (1en)	LC Port	ion (INR)	Reference
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	<civil building="" work=""></civil>								
	1.1 Sewer Laying		Til						***************************************
	Dismantling manually / by mechanical								
	means including stacking of serviceable								
	material and disposal of unserviceable material within 50 metres lead as per								
	direction of Engineer-in-Charge								
15 43 2 - DSR 2014	a) Bitumen Road		m2	117,214			159	18,642,964	
1266 - SOR_U.P. Jal Nigam	b) Cement Concrete Road		m3	8,791			1,014	8,911,612	
Varanasi 2014-15			+ +		<del>                                     </del>			0	
	Taking out existing CC interlocking		+					<del> </del>	
	paver blocks from footpath/ central								
	verge, including removal of rubbish								
16 83 - DSR_2014	etc., disposal of unserviceable material		m2	39,071			48	1,887,153	
_	to the dumping ground, for which payment shall be made separately and								
	stacking of serviceable material within					1			
	50 metre lead as per direction of								
	Dry brick on edge flooring in required		+		ļ			<del> </del>	
	pattern with bricks of class designation								
11.2-DSR_2014	7.5 on a bed of 12mm mud mortar,		m2	78,143			499	38,989,444.86	
	including filling joints with jumuna					Ì			
	sand, with common burnt clay non							<del> </del>	
	REINSTATEMENT WORK							0.00	
	Reinstatement of Existing Bitumen				ļ		2 (24 02		
UP PWD 2013	Road - Owned by Nagar Nigam		m2	117,214			3,634 00	425,957,438.49	
		<del></del>			ļ			0 00	
1323 - SOR_UP_Jal Nigam	Providing all Materials, Labours, T & P etc & construct 100mm thick (1:2.4)								
Varanasi_2014-15	Cement Concrete Road for		m3	8,791			2,041	17,944,453 42	
	Reinstatement of patch & trench cuts in								
								0,00	
	Providing and laying 60 mm thick								
	factory made cement concrete interlocking paver block of M -30 grade								
	made by block making machine with								
16.68 - DSR_2014	strong vibratory compaction, of		m2	7,814			602	4,705,770.86	
10.06 - D3K_2014	approved size, design & shape, laid in		""	7,014	ŀ		302	1,100,1100	
	required colour and pattern over and including 50 mm thick compacted bed								
	of coarse sand, filling the joints with								
	fine sand etc. all complete as per the								
								0 00	
	Laying old cement cocrete interlocking								
	paver blocks of any design/shape laid in required line, level, curvature, colour				1				
	and pattern over and including 50 mm								
16 84 - DSR 2014	thick compacted bed of coarse sand,		m2	31,257			196	6,117,033 26	
	filling the joints with fine sand etc. all		'			1			
	complete as per the direction of Engineer-in-charge (Old CC paver								
	blocks shall be supplied by the								
	Total							523,155,870	
	1.2 EARTH WORK (SEWER)							0.00	
	Excavation work by mechanical means				1	1			
	(Hydraulic excavator)/ manual means in								
	foundation trenches or drains (not				{				
9-& 2 26.2 DSR 2014	exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and							0.00	
	ramming of bottoms, lift upto 1.5 m,								
	including getting out the excavated soil								
	and disposal of surplus excavated soils								
9 1 & 2 26 2 DSR 2014	as directed, within a lead of 50 m  Ordinary Rock					<u> </u>		0.00	
11 00 2 20 10 10 10 10 10 17	a) 0.0 to 1.5 mtr B.G.L		CUM	22,124		1	264	5,829,623.13	
	b) 1.5 to 3.0 mtr B.G.L		CUM	16,161	1	<del>                                     </del>	346	5,598,827.74	
	<u> </u>					+	429	1	
	c) 3.0 to 4.5 mtr B.G.L		CUM	9,509		<del> </del>	<del></del>	4,083,150.72	
	d) 4.5 to 6.0 mtr B.G.L		CUM	5,600	ļ	ļ	512	2,869,075,88	
	e) 6.0 to 9.0 mtr B.G.L		CUM	5,619	ļ		595	3,344,914.32	
			1	l .	1	}		0.00	

	Itams	Specification	Unit	Qty	FC Portio	n (Yen)	LC Port	ion (INR)	Reference
	tifittis	Appenienton	Unn	(Ji)	Unit Price	Amount	Unit Price	Amount	Kererence
	Excavation by manually or mechanically up to following depths below G.L. for laying sever line, in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling by manually or mechanically, refilling of trenches in 15cm layer watering and manning the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of							6.00	
001 - SOR U.P. Jal Nigam	trenches (Excavation for Manhole is				-			(1.14) (7)	
'aranasi 2014-15 002 - SOR U.P. Jal Nigam	a) 0.0 to 1.5 mtr B.G.L		CUM	277,837			184 79	51,341,473 91	
aranasi 2014-15	bi 1.5 to 3.9 mtr B G.L.		CUM	238,219			232	55,261,953,59	
003 - SOR_U.P. Jal Nigam 'aranasi_2014-15	c) 3.0 to 4.5 mtr B G.L.		CUM	159,196			291	46,368,937 57	
004 - SOR U.P. Jal Nigam aranasi 2014-15	d) 4.5 to 6.0 mtr B.G.L.		CUM	124,551			340	42,358,615.49	
006 - SOR_U.P. Jal Nigam 'aranasi_2014-15	e) 6 0 to 2 0 mtr B G.L.		CUM	103,710			443	45,993,250 57	
	Disposal of excavated excess earth away from the site including conveyance of material up to an average lead of 2 Km away from the site and corresponding required lift, loading, infloading etc complete as directed by the engineer-in-charge ( The quantity is net quantity of capacity of fractor after deduction of 20% for By Mechanical Transport including loading, unloading and stacking (Lead upto 1 Km away from the site)		CUM	35,995			247	8,879,517.58	
								0.00	
	Disposal of Road Cutting Rubbish / Malba / similar unserviceable dismantled or waste material by mechanical means , including loading transportation , unloading to approved municipal dumping ground or as approved by Engineer - in charge, within 1 km initial lead, for all leads		CUM	29,108	The state of the s		306	8,911,937.45	
								0,00	
imilar Project Exp	Carting of excavated earth to identified place and recarring the same where sufficient width of road is not available for stacking of excavated earth average lead 500 mtr.		сим	45,176			158	7,137,746.80	
	Total							287,979,025	
	1.3 TIMBERING WORK  Providing and fixing open timbering in trenches up to 3m deep, consisting of 40mm thick approved country wood plank for poling board, 125x75mm Indian Sal wood wallers and 100mm diameter Sal wood ballies for shuttering at 1.50m c/c including removal after laying of sewers. (Measurement to be taken of the face area timbered)							0.00	
041 - SOR_U.P. Jal Nigam 'aranasi_2014-15	a) 1.5 to 3.0 mtr B.G.L.		SQMI	259,089			389	100,671,509.12	
042 - SOR U.P. Jal Nigam	b) 3.0 to 6.0 mtr B.G.L		SQMT	0			469.61	0.00	
aranasi 2013-2014 043 - SUK_U.P. Jal Nigam aranasi 2013-2014	a) 6.0 to 9.0 mtr B.G.L.		SQMT	0			575.93	0.00	
								0.00	
	Providing and fixing close timbering in trenches for the following depths below G.L. consisting of 40mm thick approved country wood plank for poling board 125x75mm Indian Sal wood walers and 100mm diameter Sal wood ballies for shuttering at 1.50m c/c including removal after laying of sewers (Measurement to be taken of the							0.00	
032 - SOR_U.P. Jal Nigam Varanasi 2014-15	3.0 to 4.5 mtr B.G.L.		SQMT	88,391			644	56,898,755.44	
033-SOR_U.P. Jal Nigam Varanasi 2014-15	4.5 to 6.0 mtr B.G.L.		SQMT	53,019			817	43,339,016.56	
034-SOR_U.P. Jal Nigam	6.0 to 9.0 mtr B.G.L.		SQMT	44,665			940	41,972,567.21	
/aranasi_2014-15								<u> </u>	

	English the state of the	The latest			FC Portio	n (Yen)	LC Port	ion (INR)	Reference
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Extra for planking and strutting in open								
	timbering if required to be left permanently inposition (Face area of							0.00	
	the timber permanently left to be								
47 - SOR_U.P. Jal Nigam	a) 0.0 to 3.0 mtr B.G.L.		SQMT	5,182			886	4,590,326.49	
aranasi 2014-15 48 - SOR U.P. Jal Nigam	Nacional Park		701.5		<del> </del>		1.000	0.00	
aranasi_2013-2014	b) 3 0 to 6.0 mtr B G L		SQMT	0			1,090	0.00	
049 - SOR_U.P. Jal Nigam aranasi 2013-2014	a) 6.0 to 9.0 mtr B.G.L		SQMT	0			1,314	0.00	
								0,00	
	Extra for planking and strutting in close								
	timbering if required to be left permanently inposition (Face area of							0.00	
	the timber permanently left to be								
38 - SOR U.P. Jal Nigam	measured) a) 0.0 to 3.0 mtr B.G.L.		SQMT	0			1,528	0,00	
aranasi 2014-15	a) 0.0 to 3.0 min B.G.L.		3QM1		ļ		1,520	0,00	
39 - SOR_UP Jal Nigam aranasi 2013-2014	b) 3 0 to 6 0 mtr B G.L		SQMT	2,828	}		1,896	5,361,782.94	
40-SOR_U.P. Jal Nigam	a) 6.0 to 9.0 mtr B G.L.		SQMT	893			2,127	1,899,800.12	
ranasi_2014-15	Tottal						,	254,733,757 88	
	1.4 BEDDING WORK							0,00	
	Providing and laying PCC Bedding								
	with 12-20mm gauge approved stone ballast, coarse sand and cement in M-								
	15 (1.2.4) all work up to plinth level,							0.00	
	including supply of all materials labour T&P etc. required for proper								
	completion of work and excluding								
	a) 150 mm Dia Sewer Pipe							0.00	
	0.0 to 1.5 Mtr B.G.L.		Rm				386	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm				398	0.00	
	3.0 to 4.5 Mtr B G L		Rm				413	0.00	
	4.5 to 6.0 Mtr B.G.L.		Rm				432	0.00	
	6.0 to 9.0 Mtr B.G.L.		Rm				502	0.00	
								0,00	
	a) 200 mm Dia Sewer Pipe							0,00	
	0.0 to 1.5 Mtr B.G.L.		Rm	48			533	25,564.32	
	1.5 to 3.0 Mtr B.G.L.		Rm	17,876			546	9,762,083,60	<del></del>
	3.0 to 4.5 Mtr B.G.L.	<u> </u>	Rm	23,265			564	13,123,786.50	
	4.5 to 6.0 Mtr B.G.L.		Rm	16,715			587	9,805,019.00	
	6.0 to 9.0 Mtr B.G.L.		Rm	6,700			623	4,171,487.00	
						-		0,00	
	b)250 mm Dia Sewer Pipe		<del>  </del>					0.00	
	0 0 to 1 5 Mtr B G L		Rm	160			532	85,042.26	
	1.5 to 3.0 Mtr B.G.L.		Rm	590 000	-		635	374,738.50	
	3.0 to 4.5 Mtr B.G.L.		Rm	856			656	561,724.32	
	4,5 to 6.0 Mtr B.G.L.		Rm	194			683	132,416.64	
	6.0 to 9.0 Mtr B.G L		Rm		-		725	0.00	
								0 00	
	c) 300 mm Dia Sewer Pipe				-			0.00	··
	0.0 to 1.5 Mtr B.G.L.		Rm	0			709	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm	0			728	0.00	
	3.0 to 4.5 Mtr B.G.L.		Rm	1,383		ļ	752	1,039,739.32	· · · · · · · · · · · · · · · · · · ·
	4.5 to 6.0 Mtr B.G.L.		Rm	99		L	782	77,429.02	
	6.0 to 9.0 Mtr B G L		Rm	1,215	ļ	1	831	1,009,190.61	
					<b></b>		ļ	0.00	
	d) 350 mm Dia Sewer Pipe					ļ		0 00	
	0.0 to 1.5 Mtr B.G L.		Rm				803	0,00	
	1.5 to 3.0 Mtr B G.L.		Rm			1	823	0.00	
	3 0 to 4 5 Mtr B G L.		Rm	116	1		851	98,698 10	
	4:5 to 6.0 Mtr B G.L.		Rm	93			885	82,330.02	
	6.0 to 9.0 Mtr B.G.L.		Rm	1,334			940	1,254,422.00	
								0.00	
	e)400 mm Dia Sewer Pipe							0.00	
	0.0 to 1.5 Mtr B.G.L.		Rm				899	0.00	
	1.5 to 3.0 Mtr B G.L		Rm	356			922	328,380.15	
	3.0 to 4.5 Mtr B.G.L.		Rm	0			953	0 00	
	4.5 to 6.0 Mtr B.G.L.	***	Rm		1		992	0 00	

	Day day	1000	26.0	PC Portio	on (Yen)	LC Port	ion (INR)	D. F.
ltems	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
 60 to 90 Mtr B O L		Rm	3,219			1,054	3,392,531 07	
							0.00	
f) 450 mm Dis Sewer Pipe							0.00	
0,0 to 1,5 Mtr B, O, L,		Rm				999	0.00	
1.5 to 3.0 Mtr B G L.		Rm	0			1,075	0.00	
3.0 to 4.5 Mtr B G L		Rm	529			1,059	560,385.26	
 4.5 to 6.0 Mtr B G.L.		Rm	430			1,102	474,029 15	
6.0 to 9.0 M tr 13 G L		Rni	0			1,171	0.00	
							0.00	
 g) 500 mm Dis Sewer Pipe							0,00	
0.0 to 1.5 Mtr B,G L		Rm				1,102	0.00	
 1 5 to 3.0 Mtr B G L		Rm	e dag			1,131	0,00	
3 0 to 4.5 Mtr B G L		Rm	505			1,169	590,227,53	
 4 5 to 6 0 Mtr B G L		Rm	235			1,216	285,868,94	
 6 0 to 9 0 Mtr B G L		Rm	307			1,293	396,800 06	
							0.00	
e) 600 mm Dia Sewer Pipe				-		. ,	0,00	
 0.0 to 1.5 Mtt B G L		Rm		-		1,318	0,00	***************************************
 1 5 to 3 0 Mts B G L	**************************************	Rin	43	·	† <del></del>	1,352	58,152 43	
 3 0 to 4.5 Mtr B G.L		Rm	7.1	<del> </del>	t	1,398	102,056.60	
 4.5 to 6.0 Mtr B G.L.		Rm	29			1,455	42,197,97	
 6.0 to 9.0 Mtr B G L		Rm	402			1,546	621,656,58	•
							0.00	-
 f) 700 nun Dia Sewei Pipe		1					0.00	
 0.0 to 1.5 Mtr B G I.		Rm	0			1.547	0.00	
 1.5 to 3.0 Mtr H.G.L.		Rm	86			1,587	136,507.82	
3.0 to 4.5 Mtr B G.L.		Rm	64			1,641	105,054.62	
 4.5 to 6.0 Mtr B.G.L.		Rm	135			1,708	230,640.08	
 6.0 to 9.0 Mtr B.G L.		Rm	700			1,816	1,270,928.13	
				-		*,***	0,00	
 h) 800 mm Dia Sewer Pipe		-					0.00	
 0.0 to 1.5 Mtr B.G.L.	•	Rm				1,789	0.00	
1.5 to 3.0 Mtr B.G.L.		Rm		1		1,836	0.00	
 3.0 to 4.5 Mtr B.G.L.		Rm				1,898	0.00	
 4.5 to 6.0 Mtr B.G.L.		Rm	242			1,976	478,149.24	
 6.0 to 9.0 Mtr B.G.L.		Rm	0	ļ		2,100	0,00	
 i) 1000 mm Dia Sewer Pipe		+ +			<del>                                     </del>		0.00	
 0.0 to 1.5 Mtr B.G.L.		Rm				2,313	0.00	
1.5 to 3.0 Mtr B,G,L.		Rm				2,373	0.00	
3.0 to 4.5 Mtr B G.L. 4.5 to 6.0 Mtr B G.L.		Rm	570			2,454	0 00 1,455,889 55	
 6.0 to 9.0 Mtr B.G.L.		Rm	299			2,715	811,792 48	
				<b></b>			0.00	
i) 1200 mm Dia Sewer Pipe							0.00	
0.0 to 1.5 Mtr B.G.L.		Rm				2,889	0 00	
 1,5 to 3.0 Mtr B.G.L.		Rm				2,964	0.00	
 3.0 to 4.5 Mtr B.G.L.		Rm				3,065	0.00	
 4.5 to 6.0 Mtr B.G.L.		Rm				3,190	0.00	
 6.0 to 9.0 Mtr B G.L.		Rm		-		3,391	0 00	
Providing and laying RCC Bedding with 12-20mm gauge approved stone ballast, coarse sand and cement in M-15 (1:2:4) all work up to plinth level, including supply of all materials labour T&P etc. required for proper completion of work and excluding							0.00	
 a) 150 mm Dia Sewer Pipe		+ +		<del></del>			0,00	
 0.0 to 1.5 Mtr B.G.L		Rm			<del>  </del>	548	0.00	
 1.5 to 3.0 Mtr B,G,L		Rm				561	0.00	
3 0 to 4.5 Mtr B.G.L.		Rm		-		579	0.00	
 4.5 to 6.0 Mtr B.G.L.		Rm			<b>  </b>	602 683	0.00	
 6.0 to 9.0 Mtr B.G.L		Rm		+		680	0.00	
a) 200 mm Dia Sewer Pipe							0.00	
 0.0 to 1.5 Mtr B.G.L		Rm				549	0.00	
 11 6 to 2 0 Mar D C I		Rm				565		
1.5 to 3.0 Mtr B.G.L. 3.0 to 4.5 Mtr B.G.L.		Rm				587	0.00	

Trans.	Specification	Unit	Qty	FC Portio	n ( 1 Ch)	LC POR	ion (INR)	Reference
Items	Specification	Unit	Ćih.	Unit Price	Amount	Unit Price	Amount	Kererence
6,0 to 9.0 Mtr B.G.L.		Rm	1,959			683	1,337,115.45	
				<del>                                     </del>			0.00	
b) 250 mm Dia Sewer Pipe							0.00	
 		+-+				627	0,00	
 0.0 to 1.5 Mtr B.G.L.		Rm	0			637		
1.5 to 3.0 Mtr B.G.L.		Rm				653	0.00	
3.0 to 4.5 Mtr B.G.L.		Rm				674	0.00	
4.5 to 6.0 Mtr B.G.L.		Rm	86			700	60,202.48	
6 0 to 9 0 Mtr B G L		Rm	635			795	504,727.84	
		+					0.00	
 c) 300 mm Dia Sewer Pipe				<del> </del>			0.00	
0.0 to 1.5 Mtr B.G.L.		Rm	0	†		729	0.00	
1.5 to 3.0 Mtr B.G.L.		Rm				748	0.00	
3.0 to 4.5 Mtr B.G.L.		Rm				772	0.00	
4.5 to 6.0 Mtr B.G.L. 6.0 to 9.0 Mtr B.G.L.		Rm Rm	1,970 4,474	<del> </del>		802 911	1,580,371.63 4,077,335.58	
6.0 to 9.0 Mtr B.G.L.		Kili	4,474	<b></b>		711	0.00	
 d) 350 mm Dia Sewer Pipe		1 1					0.00	
0.0 to 1.5 Mtr B.G.L.		Rm				825	0.00	
1.5 to 3.0 Mtr B.G.L.		Rm				846	0.00	
3.0 to 4.5 Mtr B.G.L.		Rm	104	1	-	874 908	90,862.84 62,659.21	
4.5 to 6.0 Mtr B.G.L. 6.0 to 9.0 Mtr B.G.L.		Rm Rm	69	+		1,032	0.00	<del></del>
 0.0 to 2.0 Mill D.G.L.		- Kun	- 0			1,032	0.00	
 e) 400 mm Dia Sewer Pipe				<del> </del>			0.00	
0.0 to 1.5 Mtr B.G L.		Rm				925	0 00	
1.5 to 3.0 Mtr B.G.L.		Rm		ļ		948	0.00	
3.0 to 4.5 Mtr B.G.L.		Rm	670	-		979 1,018	0,00 589,239.68	
4.5 to 6.0 Mtr B G.L. 6.0 to 9 0 Mtr B.G.L.		Rm Rm	579 65			1,018	75,199.29	
 6.0 td 9 0 Mtd B.G.L.		Kin	- 03	<del> </del>		1,157	0.00	
 f) 450 mm Dia Sewer Pipe		1		1			0 00	
0.0 to 1.5 Mtr B.G.L		Rm				1,028	0.00	
1.5 to 3.0 Mtr B.G.L		Rm				1,053	0.00	
3.0 to 4.5 Mtr B.G.L.		Rm	160			1,088	0.00	
4.5 to 6.0 Mtr B G L. 6.0 to 9.0 Mtr B.G.L.		Rm Rm	169 0		<u> </u>	1,131	0.00	
 6.0 to 9.0 Mili B.G.L.		Kin		+	<del> </del>	1,200	0.00	
 g) 500 mm Dia Sewer Pipe							0.00	
0 0 to 1.5 Mtr B.G.L.		Rm				1,134	0.00	
1.5 to 3.0 Mtr B G L.		Rm				1,162	0.00	
3.0 to 4.5 Mtr B.G.L		Rm	<del>.</del>	-	ļ	1,200	0.00	
4.5 to 6.0 Mtr B G.L. 6.0 to 9.0 Mtr B.G.L.		Rm Rm	691	+	-	1,248 1,419	980,712.38	
 0 0 to 9 0 total B.G.L.		Kiii	0,71	+		2,125	0.00	
h) 600 mm Dia Sewer Pipe							0.00	
0.0 to 1.5 Mtr B.G.L		Rm				1,356	0.00	
1.5 to 3.0 Mtr B G L.		Rm				1,390	0.00	
3 0 to 4.5 Mtr B G L.		Rm				1,436	0.00	
4.5 to 6.0 Mtr B G.L. 6.0 to 9.0 Mtr B.G.L.		Rın Rm	39	<del> </del>		1,493	66,237.59	
8.0 to 9.0 Mil B.G.L.		KIII		<del> </del>	<u> </u>	1,050	0.00	-
 i) 700 mm Dia Sewer Pipe					1		0,00	
0.0 to 1.5 Mtr B.G.L.		Rm				1,592	0.00	
1.5 to 3.0 Mtr B.G.L.		Rm			<del></del>	1,632	0 00	
3.0 to 4.5 Mtr B.G.L.		Rm Rm		-		1,686 1,753	0,00	
4.5 to 6.0 Mtr B G L. 6.0 to 9.0 Mtr B G L		Rm	1,614	-	<b>†</b>	1,733	3,218,824.80	
-1- 10 210 AND AND AND AND AND AND AND AND AND AND			-,				0.00	
j) 800 mm Dia Sewer Pipe							0 00	
0.0 to 1.5 Mtr B.G.L.		Rm		-		1,841	0.00	
1.5 to 3.0 Mtr B.G.L.		Rm		+	-	1,888	0 00	
3.0 to 4.5 Mtr B.G.L.	·	Rm Rm		+	-	1,950 2,027	0.00	
4.5 to 6.0 Mtr B.G.L. 6.0 to 9.0 Mtr B.G.L.		Rm	957	+	+	2,307	2,207,810.38	
 0.0 10 7.0 1111 2.012.				+		_,,	0.00	
k) 900 mm Dia Sewer Pipe							0.00	
0.0 to 1.5 Mtr B.G.L.						2,104	0.00	
1.5 to 3.0 Mtr B.G.L.					4	2,157	0.00	
3.0 to 4.5 Mtr B.G.L.		-			<del> </del>	2,228	0.00	
4.5 to 6.0 Mtr B G.L. 6.0 to 9.0 Mtr B G L		Rm	970			2,517	2,557,394.99	
 0.0 to 2.0 MH D U.D.		ran .	270			2,030	0.00	
 l) 1000 mm Dia Sewer Pipe	• • • • • • • • • • • • • • • • • • • •						0.00	
0 0 to 1 5 Mtr B.G.L.		Rm				2,380	0,00	
1.5 to 3.0 Mtr B.G.L		Rm			1	2,440	0.00	
3.0 to 4.5 Mtr B.G.L		Rm		-	+	2,520	0.00	
4.5 to 6.0 Mtr B.G.L		Rm	668	+		2,621	0.00	
 6.0 to 9.0 Mtr B.G.L.		Rm	800	-	-	2,983	0.00	
		1	1		+		0.00	

	ltonis	Const Face	Unit	0	PG Portio	n (Yen)	LC Port	tion (INR)	Reference
	itonis	Specification	Unii	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Providing and laying Granular bedding						<u> </u>		
	with carefully compacted graded hard crusher broken stone of 100% passing								
	through 20mm sieve, 20-50% passing							0.00	
	throgh 10mm sieve and 100% retained								
	on 6mm sieve and Dimensions are as								
	per Approved Drawing for Pollowing								
	n) 150 mm Din Sewer Pipe							0.00	
	0,0 to 1,5 Mtr B G L		Rm				349	0.00	
	1.5 to 3.0 Mitr B, G, L		Rm	0			352	0.00	
	3.0 to 4.5 Mitr B.O.L.		Rm	0			356	0.00	
	4 5 to 6 0 Mitr B G L		Rm	0			361	0.00	
	60 to 90 Mtr B G L		Rm	0			379	0.00	
				0				0.00	
	a) 200 mm Dia Sewer Pipe							0.00	
	0.0 to 1.5 Mtr B G L.		Rm	47,014			576	27,084,701.46	
	1.5 to 3.0 Mtr B (7.1_		Rm	103,604			573	59,353,579 52	
	3.0 to 4.5 Mtr B.Q.L.		Rm	0			.578	0.00	
	4.5 to 6.0 Mir B.G.L.		Rm	0			585	0.00	
	6,0 to 9,0 Mtr B G.L		Rm	0			609	0.00	
	1) 2/0 D C D			- 0				0.00	
	b) 250 mm Diji Sewer Pipe		Rm	244			673	0 00	
	0.0 to 1.5 Mtr B G.L. 1.5 to 3.0 Mtr B G.L.		Rm	1,049			669	701,845 07	
	3 0 to 4 5 Mtr B G L		Rm	0.			675	0.00	
	4 5 to 6 0 Mtr B G L		Rm				683	0.00	
	6.0 to 9.0 Mtr B G L		Rm				711	0.00	
		T-timer-in-distribution	1					0,00	
	c) 300 mm Dia Sewei Pipe		1					0,00	
	0.0 to 1.5 Mtr B G L		Rm				778	0,00	
~	1 5 to 3 0 Mtr B G L		Rm	ſı			773	0,00	
	3 0 to 4.5 Mtr B G L		Rm				780	0,00	
	4.5 to 6.0 Mtr B G L		Rm				789	0,00	
	6,0 to 9 0 Mtr B G L		Rm	•			821	0.00	
								0,00	
	c) 350 mm Dia Sewer Pipe						888	0.00	
	0,0 to 1.5 Mtr B,G L.		Rm				883	0,00	
	1.5 to 3.0 Mtr B.G.L.		Rm				891	0.00	
	3.0 to 4.5 Mtr B.G L.		Rm				901	0,00	
	4.5 to 6.0 Mtr B.G.L.		Rm				937	0,00	
	6.0 to 9.0 Mtr B.G L.		Rm					0.00	
	c) 400 mm Dia Sewer Pipe							0.00	
	0.0 to 1.5 Mtr B.G.L.		D				1,003	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm Rm				997	0,00	
	3.0 to 4.5 Mtr B.G.L.		Rm				1,006	0.00	
	4.5 to 6.0 Mtr B.G.L.		Rm				1,018	0.00	
	6.0 to 9.0 Mtr B.G.L.		Rm				1,058	0,00	
	0.0 10 10 10 10 10 10 10							0.00	
	d) 450 mm Dia Sewer Pipe							0.00	
	0.0 to 1.5 Mtr B.G.L.		Rm	-			1,126	0.00	
•	1.5 to 3.0 Mtr B.G.L.		Rm	147			1,120	164,664.56	
	3.0 to 4.5 Mtr B.G.L.		Rm				1,130	0.00	
	4.5 to 6.0 Mtr B.G.L.		Rm				1,143	0.00	
	6.0 to 9.0 Mtr B.G.L.		Rm				1,187	0.00	
								0.00	
	e) 500 mm Dia Sewer Pipe		$\perp \perp \perp$			T		0.00	
	0.0 to 1.5 Mtr B.G.L.		Rm			L	1,252	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm	155			1,245	193,019 42	
	3.0 to 4.5 Mtr B.G.L.		Rm	0			1,256	0.00	
	4.5 to 6.0 Mtr B.G.L.		Rm				1,270	0 00	
· · · · · · · · · · · · · · · · · · ·	6 0 to 9.0 Mtr B.G.L.		Rm				1,319	0.00	
	th 600 mm Dia Saura Bias		+-+					0.00	
	f) 600 mm Dia Sewer Pipe 0,0 to 1,5 Mtr B.G.L.		Rm				1,519	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm				1,519	0.00	
	3.0 to 4.5 Mtr B.G.L.		Rm				1,511	0.00	
	4.5 to 6.0 Mtr B.G.L.		Rm	0			1,541	0.00	
	6.0 to 9.0 Mtr B.G.L		Rm	·			1,600	0.00	
			1 224				1,000	0.00	
	g) 700 mm Dia Sewer Pipe		1					0,00	
	0.0 to 1.5 Mtr B.G.L.		Rm				1,810	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm				1,801	0.00	
	3.0 to 4.5 Mtr B.G.L.		Rm				1,816	0,00	
	4.5 to 6.0 Mtr B.G.L.		Rm	0			1,836	0.00	
	6.0 to 9.0 Mtr B G.L.		Rm				1,905	0,00	
								0.00	
	h) 800 mm Dia Sewer Pipe							0 00	
	0.0 to 1.5 Mtr B.G.L.		Rm				2,125	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm				2,114	0,00	
	3.0 to 4.5 Mtr B.G.L.		Rm	0		I	2,132	0.00	
	4.5 to 6.0 Mtr B.G.L.		Rm				2,154	0.00	
	6.0 to 9.0 Mtr B G.L.		Rm				2,235	0 00	
			1					0.00	
	i) 900 mm Dia Sewer Pipe		4					0 00	
	0.0 to 1.5 Mtr B.G.L.		Rm				2,458	0.00	
	1 5 to 3 0 Mtr B G.L.		Rm	0			2,446	0_00	

		S-110 (1)	11.5	0	FC Portio	n (1 en)	LC Port	on (INR)	Reference
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	4.5 to 6.0 Mtr B.G.L.		Rm	0			2,492	0.00	
	6 0 to 9 0 Mtr B G L		Rm		-		2,584	0.00	
								0.00	
	j) 1000 mm Dia Sewer Pipe		_					0 00	
	0.0 to 1.5 Mtr B.G.L.		Rm		-		2,815	0.00	
	1.5 to 3.0 Mtr B.G.L. 3.0 to 4.5 Mtr B.G.L.		Rm Rm	0	<del> </del>		2,801 2,824	0.00	
	4.5 to 6.0 Mtr B.G.L.		Rm	0	<del>                                     </del>		2,853	0.00	
	6 0 to 9.0 Mtr B.G.L.		Rm		1		2,958	0.00	
								160,199,187 96	
	A CANDOLLIA DA LA MINIGO DE DOCUMENTO	1						0,00	·
	1.5 SUPPLY & LAYING OF R.C.C. I Supply and carting to site RCC NP3	LIKE						0.00	
	pipes (with s/s ends) as per IS: 458 -								
	2003 (Amended up to date) including					1			
	all taxes (Central and Local) with							1	
	Rubber gaskets (EPDM/SBR) as per IS:								
	5382-1985 or (Amended up to date), including cost of Rubber gaskets,								
	labour required, transportation, loading,								
	unloading & stacking etc.(excluding								
	cost of laying, jointing, testing and								
	commissioning) The pipe shall be ISI	150	D		ļ				
		a) 200 mm dia RCC pipe	Rm Rm	217,181	+		589	127,825,882.37	
		b) 250 mm dia RCC	Rm	3,814	<del> </del>		703	2,680,711.09	
		c) 300 mm dia RCC pipe		9,141			985	9,008,014.90	
		d) 350 mm dia RCC	Rm	1,716			1,343	2,305,275.09	
	ļ	e) 400 mm dia RCC pipe		4,219	-		1,617 1,749	6,822,965.45 2,230,071.24	
		f) 450 mm dia RCC pipe g) 500 mm dia RCC	Rm Rm	1,275		-	2,145	4,092,093.10	
		h) 600 mm dia RCC	Rm	586	1		2,711	1,588,728.53	
		i) 700 mm dia RCC pipe	Rm	1,899			3,305	6,276,593.64	
		j) 800 mm dia RCC pipe		1,199	ļ		3,977	4,768,601 08	
		k) 900 mm dia RCC	Rm	970 1,537			4,535 5,705	4,398,950,00 8,769,122,15	
		1) 1000 mm dia. RCC	Rm	1,537			3,703	0.00	
	Cartage of RCC hume pipe NP3 class		· ·		<del> </del>				
	and specials from store to the site of		ļ						
	work laying of the same pipe in to the								
	trenches in various depth, true to								
	alignment chocking the point laying sewer pipe with rubber ring and							0.00	
	Jointing materials including excavation							0.00	
	of the below invert level of pipe and							}	
	testing of laid pipe line complete								
	excluding the cost of excavation of								
	earth and refilling of trenches from				+	<del> </del>		0.00	
98- SOR_U.P. Jal Nigam	a) 200 mm dia RCC pipe				<del> </del>		255		
Varanasi 2014-15	0 0 to 1.5 Mtr B.G.L.		Rm	57,714			357	20,576,772.42	
	1,5 to 3,0 Mtr B.G.L.		Rm	113,922			380	43,236,382.05	····
	3.0 to 4.5 Mtr B.G.L.		Rm	21,802		-	403	8,787,452 31	
	4.5 to 6.0 Mtr B.G.L		Rm Rm	15,871 7,872			431 521	6,832,623.81 4,101,851.98	
	6.0 to 9.0 Mtr B.G.L		Mili	1,012				0.00	
	a) 250 mm dia RCC pipe							0.00	
9 - SOR_UP Jal Nigam	0.0 to 1.5 Mtr B.G.L.		Rm	913			372	339,289.06	
Varanasi 2014-15					-	-			
	1.5 to 3.0 Mtr B.G.L. 3.0 to 4.5 Mtr B.G.L.		Rm Rm	1,190 796	+	<del> </del>	396 420	470,751.49 334,412.66	
	4.5 to 6.0 Mtr B.G.L.		Rm	280	-		449	125,644.72	
	6.0 to 9.0 Mtr B G.L.		Rm	635			543	344,882.87	
								0.00	
	200 1 755			ļ		-		0.00	
O COR IID III'	a) 300 mm dia RCC pipe		-	<u> </u>	+	+	<del>                                     </del>	0 00	
00 - SOR_U.P. Jal Nigam Varanasi 2014-15	0 0 to 1.5 Mtr B G L		Rm				461	0.00	
7 M M M M M M M M M M M M M M M M M M M	1.5 to 3.0 Mtr B.G.L.		Rm				491	0 00	
	3.0 to 4.5 Mtr B.G.L.		Rm	1,482			521	772,661 43	
	4.5 to 6.0 Mtr B.G.L.		Rm	2,047		-	557	1,139,922 82	
	6.0 to 9.0 Mtr B G L		Rm	5,612	<del> </del>		674	3,782,569 77	
	b) 350 mm dia RCC pipe	-	+	<del>                                     </del>	+	+	<del> </del>	0.00	
1- SOR_U.P. Jal Nigam			_	<u> </u>		<del>                                     </del>	617		
Varanasi 2014-15	0.0 to 1.5 Mtr B.G.L.		Rm	0			517	0.00	
	1.5 to 3.0 Mtr B,G.L.		Rm	0			551	0.00	
	3.0 to 4.5 Mtr B.G.L.	<b>_</b>	Rm	249	-	<del> </del>	585	145,594.59	
	4.5 to 6.0 Mtr B.G.L. 6.0 to 9.0 Mtr B.G.L.	<del>                                     </del>	Rm Rm	1,201	-	<del></del>	625 756	166,128.48 907,856.35	
	0.0 to 7.0 MM B.U.L.		KIII	1,201		1	7.50	0 00	
	c) 400 mm dia RCC pipe					<u> </u>		0.00	
02- SOR_U.P. Jal Nigam	0,0 to 1.5 Mtr B.G.L.		Rm	46			562	25,873.62	
Varanasi 2014-15				1		ļ			<del> </del>
	1.5 to 3.0 Mtr B G L.		Rm	310	-	-	599 636	185,612.50 0.00	
	3 0 to 4.5 Mtr B.G.L. 4.5 to 6.0 Mtr B.G.L.		Rm Rm	579	+	-	679	393,246.68	
	CT J DI U.V. IVIU D.V.L.	1	MII	3,284		+	822	2,699,611.89	

	lie-	Qualify de	100000	1965	PC Portio	n (Yen)	LC Port	ion (INR)	n.c.
	liems	Specification	Unit	Qiy	Unit Price	Amount	Unit Price	Amount	Reference
	d) 450 mm din RCC pipe							0.00	
3203 - SOR UP Jal Nigara	0 0 to 1.5 Mtr B G L		Rm	0			667	0.00	
Varanasi 2014-15 3196 & 3205 - SOR U.P. Jal	O to 13 kit is G to		Km.				35.5		
Nigam Varanasi 2014-15	1,5 to 3.0 Mtr B,G,L		Rm	180			740	127,855 60	
3196 & 3206 - SOR_UP_Jal Nigam Varanasi 2014-15	3 0 to 4.5 Mtr B,O,L,		Rm	753			754	568,024 60	
3196 & 3207-SOR U.P Jul	15 - 50 14-20 61		n	2.40			907	275 660 16	
Nigam Varanasi 2014-15 3196 & 3209 - SOR U.P. Jal	4,5 to 6,0 Mir B,G,L,		Rm	342			806	275,559 16	
Nigam Varanasi_2014-15	6 0 to 9 0 Mtr B.G.L.		Rm				275	0.00	
								0.00	
3204- SOR U.P. Jal Nigam	c) 500 mm dia RCC pipe							0.00	
Varanasi 2014-15	0 0 to 1.5 Mir B.G L		Rm	0			744	0,00	
	1 S to 3,0 Mp B,G,L 3 O to 4.5 Mp B,G,L		Rm Rm	183 492	-		792 841	144,963 02 413,900 69	
	4 5 to 6.0 Mtr B, G, L		Rm	336			850	301,916,54	
	6.6 to 9.0 Mir B.G.L.		Rm	897			1.088	975,554.98	
	f) 600 mm dia RCC pipe		+-+		-			0 00	
3205- SOR U.P. Jal Nigam					-			<del>                                     </del>	
Varanasi 2014-15	0 0 to 1 5 Mti B G L		Rm	0			841	0.00	
	1.5 to 3.0 Mtr B G L		Rm	43	1		895	38,484.53	
	3.0 to 4.5. Mtr B G 1_		Rm	73			950	69,384,98	
	4 5 to 6.0 Mtr B G 1.		Rm	29			1,015	29,441,31	
	6 0 to 9 0 Mtr B G L		Rm	441			1,229	541,887.90	
								0.00	
THE CONTRACTOR	g) 700 mm dia RCC pipe							0,00	
3206 - SOR_U.P. Jal Nigam Varanasi 2014-15	0 0 to 1 5 Mtr B G L		Rm	D	i		929	0.00	
	1.5 to 3 0 Mtt B G L		Rm	(1			989	0.00	
	3.0 to 4.5 Mtr B G L		Rm	64			1,050	67,203 43	
	4.5 to 6 0 Mtr B G L		Rm	221			1,122	247,867.92	
	6.0 to 9.0 Mtt B G L		Rm	1,614			1,357	2,191,004.45	
								0,00	
	h) 800 mm dia RCC pipe							0,00	
3207- SOR_U.P. Jal Nigam	0.0 to 1.5 Mtr B.G.L.		Rm	0			1,338	0.00	
Varanasi 2014-15	1.5 to 3.0 Mtr B.G.L.		Rm	()			1,425	0.00	
	3,0 to 4.5 Mtr B.G.L.		Rm	0			1,513	0.00	
	4.5 to 6.0 Mtr B.G.L.		Rm	242			1,616	391,109.32	
	6.0 to 9.0 Mtr B.G.L.		Rm	957			1,956	1,872,002.48	
								0.00	
	i) 900 mm dia RCC pipe		1 1					0.00	
3208 - SOR_U.P. Jai Nigam	0.0 to 1.5 Mtr B.G.L.		1		1		1,510	0.00	
Varanasi_2014-15					<del></del>			-	
	1.5 to 3.0 Mtr B.G.L.				-		1,607	0.00	
	3.0 to 4.5 Mtr B.G.L.				-		1,707	0,00	
	4.5 to 6.0 Mtr B.G.L.		-				1,823	0.00	
	6.0 to 9.0 Mtr B.G.L.		Rm	970			2,207	2,140,446.40	
	0 1000 1:- P.CC. /		+ +					0.00	
3209 - SOR U.P. Jal Nigam	i) 1000 mm dia RCC pipe		++		+			0_00	
Varanasi_2014-15	0.0 to 1.5 Mtr B.G.L.		Rm	0			1,707	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm				1,817	0.00	
	3.0 to 4.5 Mtr B.G.L.		Rm	137			1,929	264,303,26	
	4.5 to 6.0 Mtr B <sub>1</sub> G.L.		Rm	433			2,061	892,249.72	
	6.0 to 9.0 Mtr B.G.L.		Rm	967			2,494	2,411,774.37	
	Total		$\sqcup$					290,101,085	
	1.6 MICRO TUNNELING		$\perp \perp$		ļ				
	Supply of NP4 Class RCC Jacking Pipes with stain less steel collar								
	a) 200 mm dia pipe		Rm	110			11,128	1,224,040,11	
	b) 250 mm dia pipe		Rm				12,066	0.00	
	c) 300 mm dia pipe		Rm	25			13,407	335,169.80	
	d) 350 mm dia pipe		Rm		1		15,418	0,00	
	e) 400 mm dia pipe		Rm	30			16,088	482,644 51	
	f) 450 mm dia pipe		Rm	25			16,758	418,962 25	
	g) 500 mm dia pipe		Rm	· · · · · · · · · · · · · · · · · · ·			17,429	0.00	
	h) 600 mm dia pipe		Rm	20			18,635	372,708.82	

	Items	Specification	Unit	Qty	FC Portio	m (1en)	LC Port	on (INR)	Reference
	Rems	Specification	Unit	Qij	Unit Price	Amount	Unit Price	Amount	Reference
f	) 700 mm dia pipe		Rm				20,781	0.00	
jį	) 800 mm dia pipe		Rm				28,154	0.00	
k	c) 1000 mm dia. pipe		Rm	20			29,495	589,898.85	
17	) 1200 mm dia. pipe	,	Rm	30	ļ		42,902	1,287,052.03	
				<u> </u>				0.00	
	nstallation of product pipe by Micro  Tunneling method including making of								
e	ntry and exit pits all related civil								
	vorks like excavation, horing/shuttering etc_and Ground							0.00	
	Penetrating Radar Survey to protect any							0.00	
	xixting utilities at the pipe installation								
	consistence of some second of some some second of s								
	) upto 300 mm dia.		Rm	135			87,624	11,829,240.00	
ь	e) 300 to 450 mm dia.		Rm	55			96,387	5,301,285.00	
c	) 450 to 600 mm dia.		Rm	20			106,025	2,120,500 00	
d	l) 600 to 900 mm dia.		Rm				106,025	0.00	
c	900 to 1000 mm dia		Rm	50			121,076	6,053,800.00	
					ļ			30,015,301.37	
	. MANHOLES IN BRICK MASONAR	Y						0.00	
	.1 CIRCULAR BRICK MANHOLE							0.00	
	Construction of Brick Circular Manhole n first Class Brick of following Sizes								
ii	n cemnt mortar 1:4, C.C. top slab with								
	:1.5:3, Bed concrete 1 1.5.3, PCC :3:6,inside and outside plastering 12								
	nm thick with cement mortar 1 3				1				
	inished with floating coat of neat							0.00	
	ement and making channels in Cement oncrete with 1:1.5:3,, finished with								
F	Ploating coat of neat cement complete						,		
	with including Plastic Encapsulated							1	
	M.S. foot Rest staggered at 0.375 mtr nterval, including excavation,								
r	einforcement and Formwork, SFRC					ļ <u>.</u>			
	1) 150 mm dia Sewer Pipe		-					0 00	
	0.0 to 1.5 mtr ht with 900 mm Manhole		No				12,382	0,00	
1	5 to 3.0 mtr ht with 900 mm Manhole		No				32,312	0.00	
	0 to 4.5 mtr ht with 900 mm Manhole		1		-	-	50.001	2.00	
I	Dia		No		-		58,901	0.00	
	5 to 6.0 mtr ht with 900 mm Manhole		No				106,066	0.00	
6	0 to 9 0 mtr ht with 900 mm Manhole		No				243,282	0.00	
I	Dia		+		<del> </del>	ļ	,	-	
								0 00	
ь	o) 200 mm dia Sewer Pipe							0.00	
C	0 to 1.5 mtr ht with 900 mm Manhole		No	2,596			13,233	34,354,089.24	
	Dia Control Control Control		INO	2,390		ļ	12,23	34,334,083.24	
I	.5 to 3.0 mtr ht with 900 mm Manhole		No	4,885			35,204	171,973,978.78	
	.0 to 4.5 mtr ht with 900 mm Manhole		No	935			64,733	60,525,096.47	
<u>  [</u>	Dia 1,5 to 6.0 mtr ht with 900 mm Manhole		N	(()	+		117 221	77,717,296.30	
I	Dia		No	663	-	ļ	117,221	//,/1/,290.30	
	6.0 to 9.0 mtr ht with 900 mm Manhole		No	332			156,015	51,796,859.31	
								0.00	
	2000 11 0				+			+ +	
1	250 mm dia Sewer Pipe							0 00	
	0.0 to 1.5 mtr ht with 900 mm Manhole		No	38			13,231	502,783.85	
1	.5 to 3.0 mtr ht with 900 mm Manhole		No	23			35,089	807,038.65	
	Dia 3.0 to 4.5 mtr ht with 900 mm Manhole		+			-			
\r	Dia		No	29			64,565	1,872,372.67	
	1.5 to 6.0 mtr ht with 900 mm Manhole		No	10			116,911	1,169,111.35	
	5.0 to 9.0 mtr ht with 900 mm Manhole		No	27	1		155,249	4,191,713.75	
1	Dia		INU	41			155,245	-	
								0.00	
d	I) 300 mm dia Sewer Pipe							0.00	
	0.0 to 1.5 mtr ht with 900 mm Manhole				+				
	Dia		No	0		1	13,367	0.00	

	Items	Specification	Unit	A	PC Portion (Yen)		LC Port	ion (INR)	Reference
	Reins	appermention	Cinii	Qiy	Unit Price	Amount	Unit Price	Amount	Reference
	5 to 3.0 mtr ht with 900 mm Manhole		No				35,149	0.00	
3	0 to 4.5 mtr ht with 900 mm Manhole		No	54			64,357	3,475,253 04	
4	5 to 6 0 mtr ht with 900 mm Manhole		No	82			116,576	9,559,271,87	
6	0 to 9.0 mtr ht with 900 mm Manhole		No	220			154,455	33,989,078 77	***************************************
12	)iji		1-1					0.00	
	350 mm dia Sewer Pipe		-					0.00	
	0 to 1 5 mir ht with 900 mm Manhole		No		-		13,341	0.00	
	5 to 3.0 mtr ht with 900 mm Manhole	······································	-				•	<del> </del>	
	0 to 4,5 mtr ht with 900 mm Manhole		No				35,147	0.00	
D	5 to 6 0 mtr ht with 900 mm Manhole		No	6	-		63,954	383,721 21	
D	in 0 to 9 0 mtr ht with 900 mm Manhole		No	ô	ļ		116,234	1,046,109 11	
	in		No	40			153,652	6,146,090 66	
								0.00	
	400 mm dia Sewer Pipe							0.00	
10	0 to 1.5 mtr ht with 900 mm Manhole ia		No	2			13,454	26,908.41	
	5 to 3.0 mti ht with 900 mm Manhole		No	1.3			35,156	457,033,06	
3.	0 to 4.5 mtr ht with 900 mm Manhole ia		No	()			63,681	0,00	
4.	5 to 6.0 mtr ht with 900 mm Manhole in		No	19			115,867	2,201,474,51	
6	0 to 9,0 mtr ht with 900 mm Manhole		No	130			152,822	19,866,841.12	
1)	181			()				0.00	
(0)	450 mm dia Sewer Pipe		1					0.00	
	0 to 1.5 mtr ht with 900 mm Manhole		No				13,407	0,00	
	ia 5 to 3,0 mtr ht with 900 mm Manhole		+		-				
D 3.	ia 0 to 4,5 mtr ht with 900 mm Manhole		Nο	.5			35,031	175,152,79	
D	,		No	22			63,384	1,394,452.06	<del></del>
D			Nο	2			115,492	230,984.64	
D			No				151,983	0,00	
								0,00	
	500 mm dia Sewer Pipe							0.00	
0. D	0 to 1.5 mtr ht with 900 mm Manhole		No				13,506	0.00	
1. D	5 to 3.0 mtr ht with 900 mm Manhole		No				34,998	0.00	
3. D	0 to 4.5 mtr ht with 900 mm Manhole		No	4			63,056	252,223.18	
	5 to 6.0 mtr ht with 900 mm Manhole		No				115,280	0.00	
6,	0 to 9.0 mtr ht with 900 mm Manhole		No	41			151,316	6,203,960.67	
Di	la .							0.00	
7,	600 mm dia Sewer Pipe							0.00	
	0 to 1.5 mtr ht with 900 mm Manhole		No				13,520	0.00	
Di	to 3.0 mtr ht with 900 mm Manhole		┼┼						
Di			No	2			34,791	69,582.62	
Di			No	3			62,312	186,934.75	
Di	ia		No				114,457	0,00	
Di	0 to 9 0 mtr ht with 900 mm Manhole		No	18			149,555	2,691,995.86	
								0.00	
j)	700 mm dia Sewer Pipe							0.00	
	0 to 1.5 mtr ht with 1200 mm anhole Dia		No				16,331	0,00	
1,	5 to 3.0 mtr ht with 1200 mm anhole Dia		No				41,506	0.00	

Items	Country.	Unit	0	FC Portio	n (1eh)	LC Port	Reference	
items	Specification	Onit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
 3.0 to 4.5 mtr ht with 1200 mm		No				73,486	0.00	
 Manhole Dia 4.5 to 6.0 mtr ht with 1200 mm		No	6			133,465	800,789.43	
 Manhole Dia 6.0 to 9.0 mtr ht with 1200 mm		+		ļ		,		
 Manhole Dia		No	72			175,981	12,670,600.91	
							0.00	
k) 800 mm dia Sewer Pipe	•						0 00	
 0.0 to 1.5 mtr ht with 1200 mm		No				16,276	0 00	
 Manhole Dia 1.5 to 3.0 mtr ht with 1200 mm		+					0.00	
 Manhole Dia 3.0 to 4.5 mtr ht with 1200 mm		No				41,197	1392	
 Manhole Dia		No		ļ.,		72,471	0,00	
4.5 to 6.0 mtr ht with 1200 mm Manhole Dia		No	5			132,468	662,339,53	
6.0 to 9.0 mtr ht with 1200 mm		No	37			173,959	6,436,472.39	
 Manhole Dia		+ +					0,00	
		++						
 l) 900 mm dia Sewer Pīpe							0.00	
0 0 to 1.5 mtr ht with 1200 mm Manhole Dia		No				16,171	0.00	
1.5 to 3.0 mtr ht with 1200 mm Manhole Dia		No				40,824	0.00	
 3.0 to 4.5 mtr ht with 1200 mm		No		<del> </del>		71,318	0 00	
 Manhole Dia 4.5 to 6.0 mtr ht with 1200 mm		+		-				
 Manhole Dia		No				131,575	0.00	
6.0 to 9.0 mtr ht with 1200 mm Manhole Dia		No	21			172,045	3,612,950.75	
							0.00	
 m) 1000 mm dia Sewer Pipe		1					0.00	
 0.0 to 1.5 mtr ht with 1200 mm		1,,		-		10.702		
 Manhole Dia 1.5 to 3.0 mtr ht with 1200 mm		No		ļ		19,723	0,00	
 Manhole Dia		No				48,165	0.00	
3.0 to 4.5 mtr ht with 1200 mm Manhole Dia		No	2			82,774	165,548.02	
 4 5 to 6 0 mtr ht with 1200 mm		No	2			151,359	302,717.38	
 Manhole Dia 6 0 to 9 0 mtr ht with 1200 mm		No	17	1		199,434	3,390,372.41	
 Manhole Dia		100	17	<u> </u>	ļ	199,434		
							0.00	
k) 1200 mm dia Sewer Pipe							0 00	
0.0 to 1.5 mtr ht with 1200 mm		No				19,292	0.00	
 Manhole Dia 1.5 to 3.0 mtr ht with 1200 mm						47,327	0.00	
 Manhole Dia 3.0 to 4.5 mtr ht with 1200 mm		+						
Manhole Dia						79,759	0.00	
4.5 to 6.0 mtr ht with 1200 mm Manhole Dia		No				148,937	0.00	<u>-</u> -
6.0 to 9.0 mtr ht with 1200 mm Manhole Dia		No				194,774	0.00	
Mainole Dia				<del>                                     </del>	<del> </del>		0.00	
 Providing uPVC drop connection for 60								
cm drop from invert level of lateral/branch sewer line to maximum								
water line of main sewer in manhole								
including inspection and cleaning eye with chain and lid, drop pipe and bends,								
tees, encased all around with cement		See Asses				10000000		
concrete 1:2:4 with all centering and		Nos.	1,358			7,443	10,107,594 00	
shuttering required, cutting holes in								
wall and making good with brickwork in cement mortar 1:4, plastered with								
cement mortar 1:3 on inside of the								
manhole wall, stiff cement mortar 1:1								
joints between uPVC (S/S) and RCC								
pipe (S/S), making required channels								
							0.00	
 Additional cost for Manhole Cover for		21	2.500			210	546,000,00	
Providing of SFRC Extra HD 35 on		No	2,500			218	546,000.00	
Major roads in stead of SFRC HD 20.		'						

	liens	Specification	Unit	Qty	FC Portio	n (Yen)	LC Port	ion (INR)	Reference
	140000	apecinemian	Unit	9.0	Unit Price	Amount	Unit Price	Amount	Kererence
	Construction of road side inspection chamber for multiple property connections including excavation with clear opening of 600x400mm and upto the depth of 900mm in all types of soil with 230 mm thick brick masonry (first class brick) in CM (1:4), 100 mm thick PCC of M15 in foundation. 12mm thick inside and outside plastering with CM (1:3), finished with PCC M15 flooring of 75mm thick as per drawings, including covering of chamber by supplying and fixing SPRC frame and cover as per 15 12592 (Part Land II) including fixing 2 Nos. 110 CD uPVC pipe pieces and plugging the same and providing, laying one no. 150mm RCC NP2 pipe from road side chamber to manhole of required length including granular bedding and cost of materials, labout required, cost of specials, etc.		No.	5,726			12,672	112,638,467.64	
16.81 - DSR_2013	4. BARRICADING Providing and erecting 2.00 metre high temporary barricading at site as per drawing direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs marking flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be returned in position at site continuously it's shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The		Rm :	1,000			1,467	1,467,000,00	
	Supply of all material, labour and T&P to provide the barricading along trench during excavation and laying of pipe with eucalyptus ballies of 100mm dia in horizontal section in two rows and vertical post of 125 mm dia at 2 m C/C fastened with Nariyal rope including provision of cacution board. (50% of		Rm	300			440	132,030,00	
			-						
	5. MISCELLANEOUS  Provision for shifting & reinstatement of utilities e.g. electric & telephone cable/ poles, water lines drains etc. during excavation & laying of sewers		Ls	1			100,000	100,000 00	
	Provision for Land and supervision charges to railways for laying sewer crossing railway track		LS	1			2,071,134	2,071,134 24	
								2,171,134	
		***************************************							
					+			-	
			+		1				
					1				

## Rehabilitation and Upgradation of Exsisting 14 MLD STF

				FC Portio	on (Yen)	LC Port	ion (INR)	
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
[Direct Cost]								
<civil building="" work=""></civil>								
Civil work		рс	1				45,329,460	
Mechanical work		pc	1				52,530,000.00	
Electrical work		рс	1				23,019,100.00	
		рс	1					
		pc	1					
		рс	1					
		рс	1					
		рс	1					
		рс	1					
		pc	1					
		+						
Sub-Total					0		75,549,100.00	
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		+		1				
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		+						
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				-				
							1	

18 MLD STP and MPS

	0 0		di di	FC Portio	n (Yen)	I,C Porti	on (INR)	Keference
Items	Specification	Umi	Qty	Unit Price	Amount	Unit Price	Amount	Reference
[Direct Cost]								
8 MLD STP								
'ivil work		pe	ı		0		146,250,000	
dechanical work		pc	1		0		\$8,199,600	
llectrical work		pe	1		0		35,359,400	
. INTERNAL DEVELOPEMNT OF TH	IE ROADS	pe	1		0		1,929,433	
Landscaping and Protection Works		pe	1		0		1,477,730	
. ADMINISTRATIVE BUILDINGS		pe	1		(I		18,457,761	
STAFF QUARTERS		pe	1		0		2,214,881	
MPS								
ivil work		pe	1		()		30,618,280	
TREATED EFFLUENT REUSELINE		pe	1				356,188	
		1						
Sub-Total		1		<del> </del>	U		324,863,273	
		$\vdash$						
		+						
1977		<del> </del>		<del>                                     </del>				
		+		<u> </u>				
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								Marine Control of the
				ļ				
		<b>†</b>						-
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Rehabilitation of Existing Sewage Pumping Station IPS-1 Near Chetganj Tiraha

	THE LAND TO SERVICE STATE OF THE PARTY OF TH			FC Portio	n (Yen)	LC Porti	on (INR)	<b>D</b>
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
[Direct Cost]				ļ				
Civil work							278,420	
Mechanical work							9,753,260.07	
Electrical work							4,733,169.65	
Sub-Tota	ıl				0		14,764,849.63	
		-						
		1						
				1				
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			<del> </del>	+	-			
	<b></b>				<b></b>	ļ		1

		0 -0 / 20	22000	1	FC Portio	n (Yen)	LC Portio	en (INR)	to e
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
habilitation of Existing	Sewage Pumping Station IPS-1 Near	Chetganf Tiraha	ill 1		h. iii				
	chabititation of Sewage Pumping Stat	on-I							
	ivil work								
	emoval of Corroded Steel & replacing ith new steel with primer coating on		МТ	0.4			80,000	32,000 00	
the	c sicol			0			50,000		
	oviding Epoxy Concrete of 50 num		Sqm	30 0			2,000.00	60,000.00	
	pairs to plaster of thickness 12mm to								
	mm in patches of area 2.5 sq. metres								
	d under including cutting the patch in oper shape, raking out joints and								
	enuring and plastering the surface of		Sqm	100			109 00	10 900 00	
	rubbish to the dumping ground								
Wi	thin 50 m lend:								
	ith cement mortar 1 4 (1 cement 4 ructural Steel Sections for Indidess etc.		MT	1	<u> </u>		75,000.00	75,000 00	
Ro	pair of door, window shutters				•				
	cluding cost of material and labour								
	t change of damaged Style (mit of tenk wood 30mm thick/				İ				
4"	Aluminum Section wide		Rmt	10			200 00	2,000.00	
	ain Glass Panes 4mm thick		Sgni	10			325	3,250,00	
Fin	nishing wall with water proofing		<u> </u>						
	ment paint of approved brand and anufacture and or required shade to		Sqm	200			30 00	6,000,00	
	ve un even shade including all								
10	d Work( Old Finishh)							0.00	
	Restoration of Cement Flooring		Sqm	79			500_00	39,269.91	
	Misclaneous Repair Works		LS	1			20,000 00	20,000.00	
	onstruction of New Concrete work for mping station		LS	1			30,000,00	30,000.00	
Y			LS	1			13,921.00	13,921.00	
	ternal development		1.5				15,922,00	13,421,00	
	Total		1					278,419,91	
	echanical work		$\vdash$						
	let Coarse Bar Screens echanical Step type Screens SS304 I		+						
m	wide 1 m depth with bar clear bar		no	1			299,196.18	299,196.18	
	acing 20 mm pply and installation of one set of		1						
coi	mplete Manuall cleaned coarse								
	reen in the inlet chamber having the perture size as 20mm, Screens shall		no	1			153,433.94	153,433,94	
	installed at an inclination of 700								
Ве	elt Conveyor -500 mm width		по	1			178,114	178,113.64	
Sci	reen Collection bin Trolley		по	1			243,178.32	243,178.32	
								0,00	
	mping Plants and Its Accessories								
	on-clog, single stage, bottom suction bmersible pump of Capacity =255		nos	3			1,376,927.61	4,130,782.82	
cui	m/hrs, and head 20 m. at Peak Flows						-,,-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	on-clog, single stage, bottom suction bmersible pump of Capacity =155		nos	2			1,169,234.62	2,338,469.23	
cui	m/hrs, and head 16 m, at non Peak						-,,	-,,	
	pplying, erecting, testing & mmissioning of Manually Operated								
Cra	ane (single bridge girder carrying								
	o wheels, complete with chain liey block, load chain of welded		no.	1			184,965	184,964.78	
	nstruction of alloy steel as per								
IS:	2429, hand chains for hoisting & oviding, installation, testing and		$\perp$						
fo	ols and Tackles (As Per enclosed		no.	3			1,168.13	3,504.39	
list	9						7.500.00	0.00	
	Chain wrench		No.	1			7,500.00	7,500.00 1,100.00	
	Pipe wrench Screw wrench		No	1 I			1,100.00 700.00	700.00	
	Ring spanners		No	1			2,000.00	2,000.00	
	Double ended spanners		Set	1			1,000.00	1,000.00	
	Insulation pliers		No	1			250,00	250.00	
	Hammer with handle		No	1			400,00	400.00	
	Hexa blade frame	····	No	1			150,00	150,00	
	Measuring tape of different size		Set	1			500.00	500.00	

	1		0.	FC Portio	n (Yen)	LC Porti	on (INK)	D.C.
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
 j. Sprit level set comprising of		No	1			1,000.00	1,000_00	
- Filler gauge		No.	1				0.00	
 - Steel scale		No.	1				0.00	
 - Chisel (150, 200 mm)		No.	1				0.00	
 - File (Flat, half round, round and		Set	1				0,00	
 trianoular)		<b>├</b>		<u> </u>		15 000 00		
 k. Maggor HT & LT		No.	1			15,000 00	15,000.00	
 1. Crimping Tools		No.	1			30,000	30,000.00	
m. Multimeter		No.	1			3,000.0	3,000.00	
n Power Drill		No.	1			5,000	5,000.00	
 Installation of all the equipments etc.		job	1			150,000.00	150,000.00	
 Commissioning of pumping station.		job	1	<u> </u>		25,000	25,000.00	
 			1	<del> </del>		25,000	25,000,00	
 Testing of pumping plants.		job	1	ļ	-	25,000	25,000,00	
 Painting of all equipment and drives		job	1			35,000	35,000,00	
 Valves and Fittings						···· <u>-</u>		
Sluice valve	Manually operated Sluice Valve(DI) with H/w, PN10 conforming							
	200 mm dia.	No	5			92,310	461,552.27	
	300 mm dia.	No	1	† · · · - · · · ·	· · · · · ·	209,484	209,483.79	
Non-Return valve	Non-Return Valves as per IS:5312, (Part-1 & 2) Single/Multidoor type (with Lever & counterweight 400 mm & above) 700 mm & above Dual Plate Check Valves as per API-594,							
	200 mm dia	No	5			49,284	246,419.53	
	300 mm dia	No	I	-		195,436	195,436.18	
	300 mm dia	110	<del></del> -	-	<del> </del>	130,130	,	
 			10.000	<del> </del>	<del> </del>		720 500 00	
 D.F.C.I. Pipes and D.F. C.I. Specials		kg	12,325			60	739,500_00	
Providing, installation, testing and commissioning of following Stain less steel AISI 304 Expansion bellows of 10 bar rating with tie rods as per technical specifications and layout drawings including jointing material like nuts, bolts, rubber gaskets etc. complete in all respect as per technical specification and as per								
 200 mm dia.		No	5			1,000	5,000.00	
Nuts & bolts of SS and rubber insertion /packing etc @ 5% 0f the weight of Cl piping and fittings		Kg	616.25			100	61,625.00	
					-		9,753,260.07	
 Total								
Total				+	1			
Total  Electrical work								

	D	16323	PA-	I'C Portro	n (Yen)	LC Porti	on (INR)	Reference
ltems	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Keterence
 RPM Diesel linging of suitable BHP &								
AC Brush less SPDP Alternator								
mounted on a common base Prame &								
coupled through a flexible coupling or								
close coupled Alternator shall be self								
regulated with standard Alternator								
Protection(Over voltage, over speed &								
under voltage) Engine shall have								
residential silencer, up to 10 M exhaust		1 1						
piping , electronic / Mechanical								
governor, Manual & electric Start Batteries, Puel tank ( with Stand) &								
piping, control panel (16 G) with								
MCCB (4P; 25 KA), Ammeter,								
Voltmeter, Frequency Meter, Baergy								
Meter & Hour Meter, Engine								
instruments panel, AVM and with								
Weatherproof, powder conted								
Accoustic enclosure for DG set for							İ	
sound attenuation fabricated from 2.0								
mmCRCA sheet steel (structure) with								
side will fabricated from 2.0 min CRCA sheet & filled with 100mm thick								
glass wool(96Kg m3) as pet IS 8183		1						
the doors of 100 mm tluck and								
fabricated from Lomm CRCA sheet								
 nonlead with manuster contained slave at								
Air Cooled & Naturally Aspirated- Along with AMF Panel							0.00	
200 KVA at 0.8 pf 415V 50Hz 3-O		no	1			2,475,000	2,475,000.00	
 SITC of AUTO MAINS FAILURE								
(AMF) Panel fabricated from CRCA								
sheet steel 2mmThick Powder coated								
finish "Engine START & STOP								
commands,control								
RELAYS, selector switches for							0,00	
Ammeter & Voltmeter, Animeter &							İ	
Voltmeter Control & Power Contactors, Timers, Electronic Hooter								
Visual & Alarm indication for faults.								
UPS, operator interface panel complete							ŀ	
 200 KVA at 0.8 pf 415V 50Hz 3-O		no	]			300,000	300,000.00	
 Complete power wiring along with		T						
cables & materials from D.G. set to the		LS	1			40,000	40,000.00	
 Incoming Panel of L.T. panel as per I.F.								
Complete earthing of the D.G. set,								
including supply of all materials.		Job	1			16,000	16,000.00	
 construction of earth pits as per I.E.		+		ļ. — —				
Supply of 12mm thick PVC rubber		sqm	6			1,231	7,383.20	
 matting of IM × IM size and with ISI		Job	1			5,000	5,000.00	4
 First filling of Mobile oil		100	1			3,000	3,000.00	
Installation of D G, set complete with		Job	1			25,000	25,000.00	
 Commission of foundation etc		+		-			-	
Commissioning of the D G, set including fuel for a max, period of 8		Job	1			20,000	20,000.00	
hours.		300	1			20,000	20,000,00	
 		+	14		<del>  </del>	16.000	15.000.00	
 Testing of the D.G set		Job	-1			15,000	15,000.00	
		+					0,00	
 Electro- Magnetic Flow meter							0,00	
 Direct on line Full Bore electro-		1						
magnetic Flow meter for sewage								
application. The flow meter shall be								
suitable for bi directional flow measurement. This shall be having								
protection category of the sensor shall								
be IP68and protection category for the		1						
transmitter shall be IP- 65. Accuracy		no.	1			65,760	65,760.00	
shall be of +/- 5% of measured value		-				-1,	,	
without being affected by variation in								
the line pressure.Equipment should be								
complete with converter, transmitting								
device and should be fully								
programmable with digital flow								
 indicator & integrator etc. The sensor		+					0.00	
Internal and External Lighting		+		<del> </del>			0.00	
Internal and External Eighting				<del> </del>	· · · · · · · · · · · · · · · · · · ·		0 00	

		6 17		0:	FC Portio	n (Yen)	LC Portion	on (INR)	D. f
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Point Wiring in surface rigid P.V.C.			_					*
	conduit system with Flush type								
	Accessories Point wiring including metallic switch		1						
	box, sheet, switches, sockets, lamp								
	holders/ceiling roses etc with 1.5 Sq.								
	mm PVC insulated cable FR with					,		0.00	
	copper multi strand conductor ISI				1			0.00	
	marked in Surface rigid P.V.C. conduit								
	(MMS) ISI Marked of suitable size and		1 1						
	1.5 Sq. mm. PVC insulated copper		1 1						
	earth continuity conductor of green								
	colour inside conduit including painting etc. as required as per specification for		1 1			ŀ			
	Light Point/Fan Points.				<del>                                     </del>			0.00	
	Medium point (up to 6 mtr.)		nos.	4			583	2,333.10	
	Long point (up to 10 mtr.)		nos.	4	<del> </del>		894	3,575.88	
	3 Pin 6 Amp socket outlet on Separate		1103,						
	Board							0.00	
	Medium point (up to 6 mtr )		nos.	4			595	2,379.30	
	Circuit Wiring -								
	Wiring for circuit wiring with PVC								
	insulated cable FR with copper multi							0.00	
	strand conductor ISI marked in Surface							0 00	
	ngid P.V.C. conduit (MMS) of ISI marked suitable size including painting							1	
	etc. as required as per specification								
	2x2.5 Sq.mm		m	30			104	3,120.00	
	METALLIC SWITCH BOXES -		1						
	Supplying and fixing factory fabricated								
	hot dip galvanised switch box for								
	normal flush type accessories of					1			
	minimum 1.2 mm (18 swg gauge) thickness with earth terminal stud with								
	nut and washer, with 3 mm thick		nos	4			232	928.62	
	synthetic phenollic resin bonded								
	laminated sheet conforming to grade PI								
	of IS:2036-1974 on surface / concealed								
	including painting etc as required as								
	per specification- MS Box 200 mm X								
	Suppyling of ISI Marked Switch Fuse								
	Unit (rewirable type ) triple								
	pole with neutral link ,415 Volt having				1	1		0,00	
	conduit / cable gland entry								
	with two earthing terminals confirming to IS : 13947(Part I & III) -								
	63Amp		nos	2			3,576	7,151,76	
-	Supplying, fixing & testing of approved								
	make of low watt surface mounting								
	luminaires, made of white powder		1						
	coated CRCA sheet steel housing with							1	
	aluminium mirror reflector complete		1					0 00	
	with control gear, wired upto terminal								
	block on a detachable tray including fixing on wall/ Ceiling on wooden								
	round block including wiring &								
	connection as required and suitable for								
	2 no. 18 watt CFL		nos.	4			1,677	6,708.24	
	Supplying, Fixing and Testing of								
	Compact Flourescent Lamp (CFL) with							0.00	
	inbuilt electronic ballast ISI marked of								
	approved make as required as per		nos.	8	+	-	236	1,884.96	
	18 Watt Supplying, fixing and testing of		nos:	0		<del> </del>	UCA	1,004.70	
	approved make bulk head luminaire								
	consisting of pressure die aluminium								
	housing lamp holder, prismatic glass								
	cover, rubber gasket and wire guard,		nos.	4			589	2,356.20	
	delux type, including fixing on wall as								
	required, with necessary material								
	complete Fitting(sutiable for GLS w/o								
	lamp upto 11 watt Retorted CFL)					1			
	Supplying, erection and testing of								
	approved make electric Ceiling fan of								
	double ball bearing complete with								
	standard down rod, canopy, hanging shackle, Aluminium blades, without		100.5				200		
	regulator, A C. 230-250 volts including		nos	2			1,983	3,966.27	
	connections with all necessary material								
	complete as required confirming toIS				1				
	:374/1979 with upto date								
	ammendments, Ceiling Fan (Energy					1			

	6 140	220/0	125	PC Portio	n (Yen)	1,C Portion	on (INK)	0.00
llems	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
Supplying, erecting and testing of approved make Exhaust Pan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame holt/ Anchor hole fistners etc complete finished and as required 300mm sweep 900 RPM		nos	2			2,972	5,943 63	
 External		-					0.00	
Porviding, creeting, testing and commissioning solar street light system on 80 mm heavy duty galvanised fron pipe 6 meter hight with 30cm x 30cm x 2mm base plate installed own cement concrete padestal ensing complete with solar panel, solar battery with charger, other accessories with control panel in weather proof pole box, solar litting LED type or CPL type 18 wait to 20 wait (set of 2 nos.)		nos	2			53,188	106,375.50 0.00	
 Switchgens with Transformer		-					0,00	
Double pole structure, complete with Isolator, insulators, Lightening airestos, HG Fuses, operating handle etc.		No	1			187,500	187,500.00	
 150 KVA , ONAN, 11KV/0 415 V pole		No	]			341,550	341,550,00	
 I. T. Control Switch Gent Panel Board			·	+			0.00	
 SITC of wallifree standing floor mounted dust and vermin proof							.,	
out of CRCA sheet, required hardware, duly painted by either two coats of zine-red oxide primer followed by two coats of synthetic enamel paint for powder coating in grey or required shade after rising. The panel having PU/Neoprene rubber gasket of not less than 3mm thickness, separate detachable, gland plate M.S. base channel, hinged door with locking arrangement for equipment/switchgear Thickness of sheet shall not be less than 2.0mm. Load bearing structure shall be of 2.0mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments having bolted type doors with detachable. Supplying and fixing of electrolytic.		Sqm	12			3,840	46,080,00	
grade Aluminium bus bar by means of SMC / DMC type insulator, high tensile nuts and holts spring washers in existing panel including bending, cutting in required shape and size and colour coding with heat shrinkable PVC		kg	10		-	525	5,250,00	
 Incoming Panel SITC of quick make and quick break 4							0,00	
POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz, O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip; including making connections with lugs / spreaders etc. as required With Microprocessor based Release. 250		No.	j			38,700	38,700,00	
 Amp, 25/35 kA, adjustable O/L & Supply and fixing of following		-		-				
 accessories for MCCB							0.00	
 Shunt trip Release Under Voltage Release		No No	3			1,740 2,590	5,220.00	
 Earth Fault Module		No	3	1		1,650	4,950.00	
 				+		· · · · · · · · · · · · · · · · · · ·	0.00	

	0	7,154	0:	FC Portio	n (Yen)	LC Porti	on (INR)	DC.
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz, O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip, including making connections with lugs / spreaders etc. as required With Microprocessor based Release. up to 100 Amp, 16 kA, adjustable O/L & Supply and fixing of following accessories for MCCB:		No.	6			19,950	119,700 00	
 Shunt trip Release		No.	6	<del> </del>		1,740	10,440.00	
 Under Voltage Release		No.	6	<del> </del>	-	2,590	15,540.00	
 Earth Fault Module		No.	6	+		1,650	9,900.00	
SITC of S/D with panel conforming to applicable standards, with Graphical Display with atleast display of 5 different parameters at a time and display of 2 parameters with Bargraph, digital and analogue I/O, relay outputs, adjustable Accel/ Decel times, motor protection, RS 485 serial link for connections to Modbus. 30 KW		No.	5			42,900	214,500.00	
 Level transmitters ultrasonic type - 8		No.	I			110,490	110,490.00	
meters liquid Automatic start / stop device according to prefixed level in the pump with timer and audio-visual signal or circuit such as hooter arrangement for lowest and highest allowable level in the sump		No	6			5,000	30,000.00	
 Moisture sensing relay. Sensing device to signal and trip the motor against of water into oil chamber		No	6			5,000	30,000 00	
Device for taking signal from the thermister in motor winding and tripping the circuit on reaching pre-set		No	6			5,000	30,000.00	
 Single phasing preventor		No.	6			2,500	15,000.00	
Reverse rotation trip device for motor,  SITC of self healing MPP/MP type shunt capacitor (banks) conforming to IS:13340-41 / IEC. 831-1&2 in existing panel or parallel with load terminals, the capacitor shall be fitted with discharge resistors, pressure sensitive disconnector (PSD) and shall have dissipation factor less than 0.0025 at 50 Hz and total wattage loss less than 0.5 Watt per KVAR, including making connections with suitable capacity conductors/cables testing as required. Heavy duty Three phase 440 V SITC of microprocessor based		No.	40			1,169	7,500.00	
intelligent power factor correction relay having following sensing capacity secondary current, self analysing auto c/k setting according to targeted power factor setting, the relay shall have minimum three digit display unit for display of real power factor, targeted power factor, lag/lead capacitor switching status, alarm output for under current, over current, insufficient compensation, indication of switching on units, auto/manual status, and shall have over load protection, no volt release etc. as required. 6 to 8 stage.  SF of Current Transformer, with all		No.	Í			27,006	27,006 08	
 necessary support in existing panel including connection etc. as required up to 150 / 5 Ratio, 5 VA, class 1  SF of CT linked selector switch of 10 A		No.	6			437	2,620.95	
for Ampere meter (4 position ) including making connection etc as		No.	6			408	2,449.65	

- 1	items Sp	ecification	Unit	Qty	PC Portio	m ( ren)	LC Ponti	on (IIVK)	Reference
	110110	evirioni)	Cilit	40	Unit Price	Amount	Unit Price	Amount	Kererence
	of 240/220 V, LHD (22.5 mm dis.)								
	lot lamp with integral circuit, terminal ock, including connection etc. as		Set	15			286	4,282.60	
	uired Red yellow / Green colour .								
	uxiliary Outgoing punels These shall							0.00	
	ow meter, Level Indicator, Pressure			_	-				
	dicating Devices etc.							0.00	
	or miscellaneous works such as							0 00	
	elding, Dewatering pups etc.								
	pare Panel							0 00	
	TC of quick make and quick break 4 OLE current limiting MCCB having								
	Howing current rating, short circuit								
bi	caking capacity at 440/415 V, 50 Hz,								
	/L & S/C settings and conforming to								
	13947-2 / IEC 60947-2 withfront ce and centralisedadjustable, line load								
	terchangeability, having positive		No	6			19,950	119,700 00	
	olation capability, provision for UVR								
	thunt trip ,earth fault trip, push ( lest )					1			
	trip , including aking connections with lugs /				1			9 19 1	
	renders etc. as required With								
	ieroprocessor based Release up to								
	D Amp., 16 kA, adjustable O/L & Laying NLPE insulated / P V C				-				
	eathed cable of 1.1 KV grade with								
	uminium conductor Armoured of							1	
	;7098-1/1554-1 approved make in ound as per IS 1255 meluding								
	cavation of 30cmx75cm size trench.		m	50			692	34,617.69	
	em thick under layer of sand,IInd								
	ass bricks covering refilling								
	mpaction of earth, making necessary nnection, testing etc. as required of								
	& Laying XLPF insulated								
IS:	:7098/II/85 of Group1 and approved								
	ake H T cable for working voltage 11								
	V. Farthed direct in ground including cavation of 30cm x100cm size		m	50		li	1,113	55,673.82	
	ench, 25cm layer of river sand, IInd						,,,,,,		
	ass bricks covering, refilling earth,								
	mpaction of earth making necessary nnection testing etc.as required of								
	oviding & making heat shrinkable								
typ	pe or/ outdoor/ straight through								
	minations/joint kit of Group1 and		NT.	2			12 077	24.146.00	
	proved make suitable for XLPE sulated 11 KV cable, with required		No.	2			12,073	24,146.00	
	mponents, prepration of cable								
enc	ds testing etc. as required of								
	pplying and making one end termination with h	eavy duty single	Set	2.0			408.27	816.55	
	ate Earthing as per IS:3043 with								
	pper Earth plate of te 600mm x 600mm x 3.0mm by				1				
	abodying 3 to 4 mtr		1						
bel	low the ground level with 20 mm dia.								
	I. 'B' class								
	atering Pipe including all accessories enut, bolts,								
	ducer, nipple ,wire meshed funnel,		e	4.0			6746 10	25,000,20	
and	d C.C. finished		Set	4,0			6,745.10	26,980.39	
	amber covered with hinged type with								
	cking rangement C.I. Cover, C.I. Frame of								
	e300mm x								
300	0mm complete with alternate layers								
	salt and		1						
	ke/charcoal, testing of earth sistance as required.								
	& Laying following size earth		-						
wir	re/strip in horizontal or								
	rtical run in ground/surface/recess		m	100			6	642.39	
	cluding riveting, Idering, saddles, making connection								
	as required. 10 SWG G.I. Wire								
Po	wer and Control cables for		Lot	1			45,000.00	45,000.00	
	nnecting motors of various drives			1			15,000.00	15,500.00	
	bber matting of 12 mm thickness and I. marked and suitable for 0.415		sqm	4			1,231	4,306.87	
1.5.						<b></b>		4,733,169.65	
								,,	
					+ -				

Rehabilitation of Existing Sewage Pumping Station MPS-2

		I VELV	معال ب	FC Portio	on (Yen)	LC Porti	on (INR)	
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
						_		
Direct Cost]								
Civil work		pc	1				322,507.50	
Mechanical work		pc	1				18,378,629.37	
Electrical work		pc	1	+			7,384,012.90	
		+		+				
<u></u>		-		+				
		+		+				
		+		-				
		-						
Sub-Tot	al		<del></del>		0		26,085,149.77	
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	+			1				
		+						
				+				
		1			-			
					<b></b>			
		1						

	Items	Specification	Unit	Qty	PC Portic	n (Yen)	LC Porti	on (INK)	Reference
	Rema	Specification	Unit	Qt).	Unit Price	Amount	Unit Price	Amount	Reference
	Rehabilitation of Sewage Pumping Statio	n-2	(JED)	V- 12	Many de la constant d				
	Rehabilitation of Sewage Pumping Stati	nn-2							
	Removal of Corroded Steel & replacing		1.00	0.6			20.000	40 000 00	
	with new steel with primer conting on the steel		MT	0.5			80,000	to no (no	
	Providing Spoxy Concrete of 50 mm	·	Sqm	40.0			2,000.00	80,000 00	
	Repairs to plaster of thickness 12mm to		Sqri	-10.0			2,000	034,002	
	20mm in patches of area 2,5 sq. metres and under including cutting the patch in proper shape, taking out joints and								
- Company	preparing and plastering the surface of the walls complete including disposal of rubhish to the dumping ground within 50 m lead. With cement mortar 1 4 (4 cement 4		Sqm	100			109 00	10,900-00	
	Structural Steel Sections for ludders etc.		MT	ı			75,000	75,000,00	
	Repair of door, window shutters		1						
	including cost of material and labour for change of damaged Style / rail of teak wood 30mm thick/							0,00	
	Aluminium Section							0.00	
	4"wide		Rmt	វិភ សោ			200 00	2,000 00	
	Plam Glass Panes 4mm thick		Sqm	10			325	3,250,00	
	Finishing wall with water proofing cement paint of approved brand and manufacture and or required shade to give an even shade including all		Sqm	200			30 00	6,000,00	
	Old Workt Old Finishh)							0.00	
	Restoration of Cement Flooring		Sqm	80	1		500,00	40,000.00	
	Misclaneous Repair Works	**********	LS	1			20,000,00	20,000,00	
	Construction of New Concrete work for		LS	1			30,000,00	30,000.00	
	pumping station		1	1				370,000.00	
			10				15 255 50	15.257.50	
	Internal development		LS	1			15,357,50	15,357,50	
			-					000 507 50	
	Total							322,507.50	
	Mechanical work		-						
	Inlet Coarse Bar Screens								
	Mechanical Step type Screens SS304 1 m wide 1 m depth with bar clear bar spacing 20 mm		no	ı			299,196.18	299,196.18	
	Supply and installation of one set of complete Manuall cleaned coarse screen in the inlet chamber having the apperture size as 20mm. Screens shall be installed at an inclination of 700		no	1			153,433.94	153,433.94	
	Belt Conveyor -500 mm width		no	1			178,113,64	178,113.64	
	Screen Collection bin Trolley		no	1			243,178,32	243,178.32	
		V 11742 1 MA - 17 VAPA							********
	Pumping Plants and Its Accessories								
	Non-clog, single stage, bottom suction submersible pump of Capacity =765cum/hrs. and head 13 m at Peak Flows		nos	3			2,807,701.55	8,423,104.64	
	Non-clog, single stage, bottom suction submersible pump of Capacity =410 cum/hrs. and head 12 m. at non Peak		nos	2			1,807,698 26	3,615,396,51	
	Supplying, erecting, testing & commissioning of Manually Operated Crane (single bridge girder carrying two wheels, complete with chain pulley block, load chain of welded construction of alloy steel as per		no	1			184,964.78	184,964,78	
	IS 2429, hand chains for hoisting & Providing, installation, testing and commissioning of glycerin filled Pressure gauge of following ranges with isolation valve and tap off pipe complete in all respect as per technical specification and as per direction of Tools and Tackies (As Fer enclosed	•	no	3			1,168,13	3,504.39	
	liet)							0.00	
	a. Chain wrench		No	1			7,500.00	7,500.00	
	b. Pipe wrench		No	1			1,100.00	1,100.00	
	c. Screw wrench		No.	1			700.00	700.00	
	d. Ring spanners		No	1			2,000.00	2,000.00	

7 7					FC Portio	n (Yen)	LC Portio	n (INR)	D.C.
	Items	Specification	Unit	Qty <sup>,</sup>	Unit Price	Amount	Unit Price	Amount	Reference
	e Double ended spanners		Set	1			1,000.00	1,000,00	
	f. Insulation pliers		No.	1			250.00	250,00	
	g Hammer with handle		No	1			400 00	400_00	
	h, Hexa blade frame		No	1			150.00	150.00	
	i. Measuring tape of different size		Set	1			500.00	500.00	
	j. Sprit level set comprising of		No	1			1,000.00	1,000.00	
	- Filler gauge		No	1				0.00	
	- Steel scale		No	1				0.00	
	- Chisel (150, 200 mm)		No.	1	<u> </u>			0.00	
	- File (Flat, half round, round and		Set	1				0.00	
	k Maggor HT & LT		No.	1	<u> </u>		15,000.00	15,000.00	
	1. Crimping Tools		No	1	<del> </del>		30,000	30,000.00	
	m. Multimeter		No.	1			3,000.00	3,000.00	
	n. Power Drill		No.	1			5,000	5,000.00	
	Installation of all the equipments etc.		job	1			150,000.0	150,000.00	
	Commissioning of pumping station.		job	1			25,000	25,000.00	
	Testing of pumping plants		job	1	ļ		25,000.00	25,000.00	
	Painting of all equipment and drives		job	1	ļ		35,000	35,000.00	
	etc		100				33,000	0.00	
	Valves and Fittings		_		1			0 00	
	Sluice valve		1					0.00	
	Manually operated Sluice Valve(DI)								
	with H/w, PN10 conforming IS 1538							0,00	
	500 mm dia.		No	5			209,483 79	1,047,418.94	
	700 mm dia.		No	1	ļ		1,766,527 19	1,766,527.19	
	Non-Return valve							0.00	
	C.I.D/F Swing type Non-Return Valves as per IS:5312, (Part-1 & 2) Single/Multidoor type (with Lever & counterweight 400 mm & above) 700 mm & above Dual Plate Check Valves							0.00	
	500 mm dia	-	No	5			195,436	977,180.88	
	700 mm dia.		No	1			322,894.55	322,894,55	
	D.F.C I. Pipes and D.F. C.I. Specials		Kg	12,325 00			60 00	739,500.00	
·	Providing, installation, testing and commissioning of following Stain less steel AISI 304 Expansion bellows of 10 bar rating with tie rods as per technical specifications and layout drawings including jointing material like nuts, bolts, rubber gaskets etc. complete in all respect as per technical specification							0.00	
	and as per 500 mm dia		nos	5.00		<del> </del>	11,998.08	59,990.41	
	Nuts & bolts of SS and rubber insertion /packing etc @ 5% 0f the weight of CI piping and fittings		kg	616.25			100 00	61,625.00	
					-				
	Total		-					18,378,629.37	

		12	Parity	14.	1ºC Portic	in (Yen)	I,C Portio	in (INK)	p .c
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	RPM Diesel Engine of suitable BHP &								
	AC Brush less SPDP Alternator								
	mounted on a common base Frame &								
	coupled through a flexible coupling or								
	close coupled Alternator shall be self							,	
	regulated with standard Alternator								
	Protection( Over voltage , over speed &								
	under voltage). Engine shall have residential silencer, up to 10 M exhaust								
	piping, electionic / Mechanical								
	governor, Manual & electric Start								
	Butteries, Fuel tank ( with Stand) &								
1	piping, control panel (16 G) with								
į	MCCB (4P, 25 KA), Ammeter,								
	Volumeter, Prequency Meter, Energy Meter & Hour Meter, Engine							i	
	instruments panel, AVM and with								
	Weatherproof, powder costed								
	Accoustic enclosure for DG set for								
	sound attenuation fabricated from 2 0								
	mmCRCA sheet steel (structure) with								
	side wall fabricated from 2.0 mm CRCA sheet & tilled with 100mm thick								
	glass wool(26Kg/m3) as per IS 8183								
	the doors of 100 mm thick and								
	fabricated from L6mm CRCA sheet								
	Air Cooled & Naturally Aspirated		+	•					
	Along with AMF Panel								
	360 KVA at 0 8 pf 415V 50Hz 3-O		110	1			3,294,000,00	3,294,000.00	
	SITC of AUTO MAINS FAILURE								
	(AMF) Panel fabricated from CRCA								
	sheet steel 2mmThick , Powder coated		1 1						
	finish - Engine START & STOP								
	commands,control RELAYS, selector switches for							0.00	
	Ammeter & Voltmeter, Ammeter &							0,00	
	Voltmeter, Control & Power								
	Contactors, Timers, Electronic Hooter								
	,Visual & Alarm indication for faults,								
	UPS, operator interface panel complete								
	360 KVA at 0.8 pf 415V 50Hz 3-0		no.	1	ļ		375,000.00	375,000,00	
	Complete power wiring along with		LS	1			30,000.00	30,000.00	
	cables & materials from D.G. set to the Incoming Panel of L.T. panel as per I.E.		1.5	,			30,000,00	30,000,00	
	Complete earthing of the D.G. set,								
	including supply of all materials.		Job	1			16,745.10	16,745,10	
	construction of earth pits as per I.E.	· · · · · · · · · · · · · · · · · · ·	$\perp$						
	Supply of 12mm thick PVC rubber		sqm	6			1,230.53	7,383,20	
	matting of IM × IM size and with ISI		Job	1			6,000.00	6,000.00	
	First filling of Mobile oil Installation of D.G. set complete with				<del> </del>				<del></del>
	construction of foundation etc.		Job	1			35,000 00	35,000.00	
	Commissioning of the D.G. set		Job	1			25,000.00	25,000.00	
	including fuel for a max, period of 8		300	- 3			25,000.00	23,000.00	
	Testing of the D.G. set.		Job	1.00			15,000.00	15,000.00	
	Electro- Magnetic Flow meter								
	Direct on line Full Bore electro-								
	magnetic Flow meter for sewage								
	application. The flow meter shall be							1	
	suitable for bi directional flow		+ 1						
	measurement This shall be having								
	protection category of the sensor shall be IP68and protection category for the								
	transmitter shall be IP- 65. Accuracy		no.	1,00			953,760.00	953,760.00	
	shall be of +/- 5% of measured value		T VANAL!	204587			,	, 10	
	without being affected by variation in								
	the line pressure.Equipment should be								
	complete with converter, transmitting								
	device and should be fully programmable with digital flow								
	indicator & integrator etc. The sensor								
	Indiana de Infogration des The Sound								
	Internal and External Lighting		+		<del>                                     </del>	-			
	forcemen and external righting		1						

	Tomas	Consideration	Unit	Ott	FC Portio	n (Yen)	LC Portion	on (INR)	Reference
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Kelerence
	Point Wiring in surface rigid P.V.C.								
	conduit system with Flush type Accessories Point wiring including								
	metallic switch box, sheet, switches,								
	sockets, lamp holders/ceiling roses et	c							
	with 1.5 Sq. mm. PVC insulated cabl	e				1 1			
	FR with copper multi strand conduct	or						0.00	
	ISI marked in Surface rigid P.V.C.					1			
	conduit (MMS) ISI Marked of suitab	e							
	size and 1.5 Sq mm. PVC insulated copper earth continuity conductor of								
	green colour inside conduit including								
	painting etc. as required as per								
	Light Point/Fan Points							0.00	
•	Medium point (up to 6 mtr.)		nos	5.00			583.28	2,916,38	
	Long point (up to 10 mtr)		nos	5.00	<del> </del>		893.97	4,469.85	
	3 Pin 6 Amp socket outlet on Separat		1103	3,00			0,5,,,,		
	Board		1 1			] [		0.00	
	Medium point (up to 6 mtr.)		nos	5.00	İ		594.83	2,974.13	
	Circuit Wiring -								
	Wiring for circuit wiring with PVC								
	insulated cable FR with copper multi								
	strand conductor ISI marked in Surfa	ce				]		0 00	
	rigid P.V C conduit (MMS) of ISI marked suitable size including painti	10							
	etc as required as per specification								
	2x2.5 Sq.mm.		m	45.00			104.00	4,680,00	
	METALLIC SWITCH BOXES -	1	-		<del> </del>			, , , ,	
	Supplying and fixing factory fabricat	ed							
	hot dip galvanised switch box for								
	normal flush type accessories of								
	minimum 1.2 mm (18 swg gauge) thickness with earth terminal stud wi	h							
	nut and washer, with 3 mm thick		nos	5.00			232,16	1,160 78	
	synthetic phenollic resin bonded					'			
	laminated sheet conforming to grade								
	of IS:2036-1974 on surface / conceal	ed							
	including painting etc. as required as	,							
	per specification- MS Box 200 mm : Suppyling of ISI Marked Switch Fuse				+	<del> </del>			
	Unit (rewirable type ) triple pole with								
	neutral link ,415 Volt having conduit							0.00	
	cable gland entry with two earthing								
	terminals confirming to IS : 13947(P	urt	-		+				
	63Amp		nos	4_00			3,575.88	14,303.52	
	Supplying, fixing & testing of approv	ed							
	make of low watt surface mounting luminaires, made of white powder					}			
	coated CRCA sheet steel housing with	h						<u> </u>	
	aluminium mirror reflector complete							0,00	
	with control gear, wired upto termina	1				1		0,00	
	block on a detachable tray including								
	fixing on wall/ Ceiling on wooden round block including wiring &								
	connection as required and suitable f	or							
	2 no 18 watt CFL		nos.	4.00	1		1,677.06	6,708 24	
	Supplying Fixing and Testing of		300	20,000	+		**************************************	,	
	Compact Flourescent Lamp (CFL) w	th						0.00	
	inbuilt electronic ballast ISI marked	f						0.00	
	approved make as required as per		-	2007	1				
	18 Watt		nos	8.00			235,62	1,884.96	
	Supplying, fixing and testing of								
	approved make bulk head luminaire consisting of pressure die aluminium								
	housing lamp holder, prismatic glass					1			
	cover, rubber gasket and wire guard,	347	nos.	4.00			589.05	2,356.20	
	delux type, including fixing on wall	ıs						0.000,000	
	required, with necessary material								
	complete Fitting(sutiable for GLS w/	0							
	lamp upto 11 watt Retorted CFL) Supplying, erection and testing of		-			1		<del> </del>	
	approved make electric Ceiling fan o	f							
	double ball bearing complete with								
	standard down rod, canopy, hanging								
	shackle, Aluminium blades, without		nos.	2.00			1,983.14	3,966.27	
	regulator, A.C. 230-250 volts includi		2103.	2.00			.,	2,500.27	
	connections with all necessary mater								
	complete as required confirming toIS								
	:374/1979 with upto date					1	1		

	Out of the	70.0	-	FC Portio	on (Yen)	LC Porti	on (INR)	D.C.
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
Supplying, greeting and testing of approved make Exhaust Pan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bold Anchor hole fastners etc complete finished and as required. 300mm sweep 900 RPM		1101	2 00			2,971 82	5,943 63	
External							0.00	
Providing etecting, testing and commissioning solar street light system on 80 mm heavy duty galvanised iron pipe 6 meter hight with 30cm x 30cm x 20cm base plate installed own cement concrete padestal easing complete with solar panel, solar battery with charger, other accessories with control panel in weather proof pole box, solar fitting LED type or CFL type 18 watt to 20 watt (set		nos	***			34,11 <u>0</u>	108,219,34	
 Switchgen with Transformer  Double pole structure, complete with		-						
 lsolator, Insulators, Lightening arrestos, HG Fuses, operating handle etc.		No	16			187,500 00	187,500,00	***************************************
315 KVA , ONAN, 11KV/0 415 V pole mounted Transformer		No	1			741,900	741,900,00	
 L.T. Control Switch Gear Panel Board		1					0.00	
SITC of walll'free standing floor mounted dust and vermin proof compartmentalised cubical panel made out of CRCA sheet, required hardware, duly painted by either two coats of zimered oxide primer followed by two coats of synthetic enamel paint for powder coating in grey or required shade after rising. The panel having PU/Neoprene rubber gasket of not less than 3mm thickness, separate detachable, gland plate M.S. base channel, hinged door with locking arrangement for equipment/switchgear. Thickness of sheet shall not be less than 2.0mm. Load bearing structure shall be of 2.0mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments having bolted type doors with detachable. Supplying and fixing of electrolytic grade. Aluminium bus bar by means of		Sqm	14			3,840	53,760.00	
SMC / DMC type insulator, high tensile nuts and bolts spring washers in existing panel including bending, cutting in required shape and size and colour coding with heat shrinkable PVC		kg	12			525	6,300,00	
 Incoming Panel		$\perp$					0.00	
SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz, O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip, including making connections with lugs / spreaders etc. as required With Microprocessor based Release. 600 Amp, 25/35 kA, adjustable O/L & adjustable S/C setting		No.	3.0			42,450.00	127,350 00	
Supply and fixing of following							0.00	
 accessories for MCCB Shunt trip Release		No.	3	+		1,740	5,220.00	
 Under Voltage Release		No.	3			2,590.00	7,770.00	
 Earth Fault Module		No	3	1		1,650	4,950.00	
 Outgoing Panels		- 75		+		-,,,,,	0 00	

1		0. 10	1, 5	0:	FC Portio	n (Yen)	LC Portio	on (INR)	P. (f
1	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR , shunt trip ,earth fault trip, push (test) to trip , including making connections with lugs / spreaders etc. as required With		No	8.00			19,950 00	159,600.00	
	Microprocessor based Release up to 100 Amp , 16 kA, adjustable O/L &								
	Supply and fixing of following							0.00	
	Shunt trip Release		No.	6.00			1,740.00	10,440.00	
	Under Voltage Release		No.	6.00			2,590.00	15,540.00	,
	Earth Fault Module		No.	6.00	<u> </u>		1,650.00	9,900.00	
	SITC of S/Dwith panel conforming to applicable standards, with Graphical Display with atleast display of 5 different parameters at a time and display of 2 parameters with Bargraph, digital and analogue I/O, relay outputs, adjustable Accel/ Decel times, motor protection, RS 485 serial link for connections to Modbus, 45 KW		No.	6 00			67,350.00	404,100.00	
	Level transmitters ultrasonic type - 10		No	1.00			110,490.00	110,490.00	
	meters liquid  Automatic start / stop device according to prefixed level in the pump with timer and audio-visual signal or circuit such as hooter arrangement for lowest and highest allowable level in the sump.		No	6.00			5,000_00	30,000 00	
	Moisture sensing relay. Sensing device to signal and trip the motor against of water into oil chamber.		No	6			5,000	30,000.00	
	Device for taking signal from the thermister in motor winding and tripping the circuit on reaching pre-set		No.	6			5,000.00	30,000.00	
	Single phasing preventor		No.	6			2,500,00	15,000.00	
	Reverse rotation trip device for motor.  SITC of self healing MPP/MP type		No.	6	-		1,500.00	9,000.00	
	shunt capacitor (banks) conforming to IS:13340-41 / IEC :831-1&2 in existing panel or parallel with load terminals, the capacitor shall be fitted with discharge resistors, pressure sensitive disconnector (PSD) and shall have dissipation factor less than 0.0025 at 50 Hz and total wattage loss less than 0.5 Watt per KVAR. including making connections with suitable capacity conductors/cables testing as required. Heavy duty Three phase 440 V		KVAr	80,00			1,168.50	93,480,00	
	STTC of microprocessor based intelligent power factor correction relay having following sensing capacity secondary current, self analysing auto c/k setting according to targeted power factor setting, the relay shall have minimum three digit display unit for display of real power factor, targeted power factor, lag/lead capacitor switching status, alarm output for under current, over current, insufficient compensation, indication of switching on units, auto/manual status, and shall have over load protection, no volt release etc. as required. 6 to 8 stage.		No.	1.00			27,000 00	27,000.00	
	SF of Current Transformer, with all necessary support in existing panel including connection etc. as required up to 150 / 5 Ratio, 5 VA, class 1		No.	6.00			436.83	2,620 95	
	SF of CT linked selector switch of 10 A for Ampere meter (4 position ) including making connection etc. as		No.	6 00			408.27	2,449.65	
	SF of 240/220 V, LED (22.5 mm dia) Pilot lamp with integral circuit, terminal block, including connection etc. as equired Red/yellow/Green colour		Set	20.00			285.51	5,710 14	
	Auxiliary Outgoing panels. These shall be required for the following purposes							0,00	

	ligns	Specification	Unit	Qty	FC Portio	( , en)	I.C Porti		Reference
- 1		- Chreen and a character and a		40	Unit Price	Amount	Unit Price	Amount	S. JETT
	Plow meter, Level Indicator, Pressure							0.00	
	Indicating Devices etc							0.00	
	welding Dewntering pups etc.								
	Spare Panel							0.00	
	SITC of quick make and quick break 4 POLE current limiting MCCB having								
	following current rating, short circuit								
	breaking capacity at 440/415 V, 50 Hz, O/L, & S/C settings and conforming to								
	IS 13947-2 / IIIC 60947-2 withfront								
	face and centralisedadjustable, line load								
1	interchangeability, having positive isolation capability, provision for UVR		740.	5.00			19,995.00	99,975,00	
	shunt trip , earth fault trip, push ( test )								
	to trip , including making connections								
	With Microprocessor based Release up								
	to 100 Amp , 16 kA, adjustable O/L &								
-	P/Laying XLPE insulated / P.V.C.		-		-	-			*
	sheathed cable of 1.1 KV grade with								
	aluminium conductor Armoured of IS 7098-I/1554-1 approved make in								
	ground as per 18-1255 including			de es			(100.00	41,541.23	
	excuvation of 30cmx75cm size trench		m	60,00			692.35	41,541,23	
	25 cm thick under layer of sand. Hid class bricks covering, refilling								
	compaction of earth, making necessary								
	P & Laving XLPE insulated				-				
	IS.7098/II/85 of Group1 and approved								
	make H T cable for working voltage 11								
	K.V. Earthed direct in ground including excavation of 30cm x100cm size		mi	60,00			1,113,48	66,808.58	
	trench, 25cm layer of river sand, IInd						7,220.10	00,000,000	
	class bricks covering, refilling earth,								
	compaction of earth, making necessary connection testing etc.as required of								
	Providing & making heat shrinkable								
	type or outdoor/straight through terminations joint kit of Group1 and								
	approved make suitable for XLPE		No	4 (0)			15,844.50	63,378.00	
	insulated 11 KV cable, with required							1	
	ends testing etc. as required of								
	Supplying and making one end								
	termination with heavy duty single compression brass gland SIBG type,								
	aluminium lugs duly crimped with		Set	4.00			623.03	2,492.11	
	crimping tool, PVC tape etc for		CHOS	4,00			025.05	2,772.11	
	following size of Armoured PVC insulated & PVC sheathed/ XLPE								
	aluminium conductor cable of 1100 volt								
	Plate Earthing as per IS:3043 with copper Earth plate of size 600mm x		1						
	600mm x 3.0mm by embodying 3 to 4								
Į	mtr, below the ground level with 20								
	mm dia. G.I. 'B' class watering Pipe including all accessories like nut, bolts,		0.4	600			674510	40 470 50	
	reducer, nipple ,wire meshed funnel,		Set	6.00			6,745.10	40,470.58	
	and C.C. finished chamber covered with hinged type with locking								
	arrangement C.I. Cover, C.I. Frame of								
	size300mm x 300mm complete with alternate layers								
	S & Laying following size earth								-
	wire/strip in horizontal or vertical run			100			,	640.00	
	in ground/surface/recess including riveting, soldering, saddles, making		m	100			6	642.39	
	connection etc. as required, 10 SWG								
	Power and Control cables for connecting motors of various drives		Lot	1.00			55,000.00	55,000.00	
	Rubber matting of 12 mm thickness and		++		+		1 000 50	6.150.67	
	I.S.I. marked and suitable for 0.415		sqm	5.00			1,230.53	6,152.67	
								7,384,012.90	
			11						
			1 1						

Rehabilitation of Existing Sewage Pumping Station IPS-3

			1	FC Portio	n (Yen)	LC Portion	on (INR)	D.S
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
Direct Cost]								
Civil work							248,818	
Iechanical work							4,402,667.81	
Electrical work						_	2,610,918.99	
				1				
		1		1				
		1						
	.,	-		1				
Sub-Total		-				-	7,262,405.21	
200-10(8)		+			0		7,504,703,21	·
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William Company	Name of the second	Same of the same o	11	0	PC Portio	n (Yen)	LC Portio	on (INR)	D.c
	ltënts	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Rehabilitation of Baisting Sewage Pumpi	ng Station IPS-3	AVD -	724.0	Tales -				
	Civil work								
7	Removal of Corroded Steel & replacing		) er				385 (11/1 60)	te our no	
	with new steel with primer conting on the steel		MT	1) 2			86 060 00	16_000 00	
	thick with Required primer etc		Sam	20			2,000 00	40,000.00	
	Complete Mark		Squ	0			2,000 00	40,000,00	
	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. metres								
	and under including cutting the patch in								
	proper shape, raking out joints and		Sum	59			109 00	5,450 00	
	preparing and plastering the surface of the walls complete including disposal		2000	20			10.700	5,450,00	
	of rubbish to the dumping ground								
	Within 50 m lend : With cement mortar 1.4 ( 1 cement : 4								
	Structural Steel Sections for Inddees etc.		MT	1			75,000	75,000,00	
	Repair of door, window shutters							0,00	
	for change of damaged							0,00	
	Style / rail of teak wood 30mm thick/			_				0,00	
	Aluminium Section  4"wide		Dont	10	-		200	2,000,00	
		····	Rmt		-				
	Plain Glass Panes 4min thick Finishing wall with water proofing		Sqm	10	-		325	3,250,00	
	cement paint of approved brand and		Spm	200			30	6,000,00	
	manufacture and or required shade to		Spin	200			.50	0,000,00	
	give an even shade including all Old Work( Old Finishli)							0,00	
			-	70.61	<u> </u>				
	Restoration of Cement Flooring		Sqm	78.54	_		500	39,269,91	
	Misclaneous Repair Works		LS	1	ļ		20,000	20,000,00	
	Construction of New Concrete work for pumping station		LS	1			30,000	30,000.00	
	Internal development		LS	1			11,848.50	11,848,50	
			1						
	Total							248,818.41	
			-		<del>                                     </del>			210,010,17	
	Mechanical work		+		<del>                                     </del>				
	Inlet Coarse Bar Screens		+						
	Mechanical Step type Screens SS304 1		+						
	m wide 1 m depth with bar clear bar		no				299,196.18	299,196.18	
	spacing 20 mm Supply and installation of one set of		1	1					
	complete Manuall cleaned coarse								
	screen in the inlet chamber having the		no				153,433.94	153,433.94	
:	apperture size as 20mm. Screens shall be installed at an inclination of 700			1					
	Belt Conveyor -500 mm width	-	no	I			178,113.64	178,113,64	
	Screen Collection bin Trolley		no	1			243,178.32	243,178.32	
								0,00	
	Pumping Plants and Its Accessories							0,00	
	PUMPING PLANTS		T 1					0,00	
	Non-clog, single stage, bottom suction			_					
	submersible pump of Capacity =35 cum/hrs and head 8 m. at Peak Flows		nos	3			172,159.53	516,478 58	
	Non-clog, single stage, bottom suction								
	submersible pump of Capacity		nos	2			151,813.40	303,626,80	
	=15cum/hrs. and head 8 m. at non Peak Supplying, erecting, testing &								
	commissioning of Manually Operated								
	Crane (single bridge girder carrying two wheels, complete with chain			1			184,964.78	184,964.78	
	pulley block, load chain of welded		no	1			107,707.70	104,504;70	
	construction of alloy steel as per								
	IS:2429, hand chains for hoisting & Providing, installation, testing and		+		-				
	commissioning of glycerin filled								
	Pressure gauge of following ranges with		no.	3			1,168.13	3,504,39	
	isolation valve and tap off pipe complete in all respect as per technical								
	specification and as per direction of Tools and Tackles (As Per enclosed		$\perp \perp$						
	list)							0.00	
	a Chain wrench		No.	11			7,500 00	7,500.00	
	b. Pipe wrench		No	1			1,100.00	1,100.00	
1	c. Screw wrench		No	1			700 00	700 00	

	And the second second	money and	أريا	Sec.	FC Portio	n (Yen)	LC Porti	on (INR)	
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	d. Ring spanners		No.	1			2,000.00	2,000.00	
	e. Double ended spanners		Set	1			1,000.00	1,000.00	
 	f Insulation pliers		No.	1			250,00	250,00	
	g. Hammer with handle		No.	1			400,00	400.00	
	h. Hexa blade frame		No.	1			150,00	150.00	
	i. Measuring tape of different size		Set	1			500 00	500.00	
	j. Sprit level set comprising of		No.	1			1,000.00	1,000.00	
	- Filler gauge		No.	1				0.00	
	- Steel scale		No.	1				0,00	
	- Chisel (150, 200 mm) - File (Flat, half round, round and		No.	1				0.00	
 	triangular)	· · · · · · · · · · · · · · · · · · ·	Set	1				0.00	
	k. Maggor HT & LT		No_	1			15,000.00	15,000.00	
 	1. Crimping Tools		No	1			30,000.00	30,000.00	
 	m. Multimeter		No	1			3,000.00	3,000.00	
	n, Power Drill		No_	1			5,000:00	5,000.00	
 	Installation of all the equipments etc		job	1			150,000 00 25,000 00	150,000.00	
	Commissioning of pumping station.		job	1			25,000.00	25,000.00 25,000.00	
	Testing of pumping plants.  Painting of all equipment and drives		job	1			35,000.00	35,000.00	
	etc		job	1			33,000,00	0.00	
	Valves and Fittings		+					0,00	
 	Sluice valve					-		0.00	
	Manually operated Sluice Valve(DI)		+					0.00	
 	with H/w, PN10 conforming IS 1538								
 	100 mm dia.		No	5			18,641	93,206.06	
	150 mm dia		No	1			31,334.37	31,334.37	
 	Non-Return valve  C.I.D/F Swing type Non-Return Valves		+					0,00	
	as per IS:5312, (Part-1 & 2) Single/Multidoor type (with Lever & counterweight 400 mm & above) 700 mm & above Dual Plate Check Valves							0 00	
	100 mm dia		No	5			7,817.45	39,087.24	
	150 mm dia		No	1			23,792.23	23,792.23	
	D.F.C.I. Pipes and D.F. C.I. Specials							0_00	
	Delivery piping shall commence from 90° discharge duck foot bend of individual pump up to the start of rising main This shall include column pipe, distance pieces, common header, bends and tees etc. as per following details:		kg	12,325 00			60,00	739,500,00	
		-							
	Providing, installation, testing and commissioning of following Stain less steel AISI 304 Expansion bellows of 10 bar rating with the rods as per technical specifications and layout drawings including jointing material like nuts, bolts, rubber gaskets etc. complete in all respect as per technical specification and as per				1.				
	100 mm dia		nos	5.00		1	11,998.08	59,990.41	
	Nuts & bolts of SS and rubber insertion /packing etc @ 5% 0f the weight of CI piping and fittings		kg	616.25			100.00	61,625,00	
								0,00	
								0.00	
	Rising Main							0.00	
	Mechanical							0.00	
	Supply of DI K9 Pipe 200 mm Dia.		RM	250.00			2,619.10	654,775.00	
	Spacials @ 10% of Cost of pipe		LS	10%			654,775.00	65,477.50	
	Civil  Excavation for pipe line in ordinary soil with lift upto 1.5 m and lead upto 50 m							0 00	
	including refilling, watering and ramming of excavated earth in trenches after laying pipe line, removal and disposal of surplus material upto a		cum	337.5			183.40	61,897.50	
	Laying Of pipe		RM	250			1,547 54	386,885.87	
	Total		+		<del> </del>		<del> </del>	4,402,667.81	
l .	I O'GI			ļ	-	+		1,702,007 01	

			di Langa	Lagran	PC Portic	on (Yen)	LC Porti	on (INR)	
	ltoms	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Electrical & Instrumentation Works								
	DG Sets				-				Material III
	שודי שודי אווי אוויי אוויי אוויי אוויי אוויי אוויי אוויי אוויי אווייי אווייי אוויייי אוויייייייי	<del>***                                  </del>							
i	RPM Diesel Engine of suitable BHP &								
	AC Brush less SPDP Alternator								
	mounted on a common base Frame & coupled through a flexible coupling or								
	close coupled Alternator shall be self								
	regulated with standard Alternator		1						
	Protection( Over voltage, over speed &				1				
	under voltage). Hogine shall have								
	residential silencer, up to 10 M exhaust		1 1						
	piping, electronic / Mechanical								
	governor, Manual & electric Start								
	Butteries, Puel tank ( with Stand) & piping , control panel (16 G) with								
	MCCB (4P, 25 KA), Animater,								
	Voltmeter, Frequency Meter, Bnergy								
	Meter & Hour Meter, Engine								
	instruments panel, AVM and with		1 1					]	
	Weitherproof, powder conted		1 1						
	Accoustic enclosure for DG set for		1 1						
	sound attenuation fabricated from 2.0								
	mmCRCA sheet steel (structure) with							1	
	side wall fabricated from 2.0 mm CRCA sheet & filled with 100mm thick					1			
	glass wool(96Kg/m3) as per IS 8183								
	the doors of 100 mm thick and								
	fabricated from 1 6min CRCA sheet								
	All (5 1 1 1 P. Nataralla Amarata)		<del>  </del>		+			0.00	
	Air Cooled & Naturally Aspirated-						701 250 00		
	30 KVA at 0.8 pf 415V 50Hz 3-O		no	1			683,250,00	683,250.00	
	STIC of AUTO MAINS FAILURE								
	(AMF) Panel fabricated from CRCA sheet steel 2mmThick   Powder coated								
	finish Engine START & STOP								
	commands control								
	RPLAYS, selector switches for							0,00	
	Ammeter & Voltmeter, Ammeter &				1				
	Voltmeter, Control & Power								
	Contactors, Timers, Electronic Hootes		]						
<b>1</b>	Visual & Alarm indication for faults								
	UPS, operator interface panel complete	<del></del>	<del>  </del>				112.500	112 600 00	
	30 KVA at 0.8 pf 415V 50Hz 3-O		no.	1			112,500	112,500.00	
	Complete earthing of the D.G. set,		1,				8,351.07	8,351.07	
	including supply of all materials, construction of earth pits as per I E.		Job	1			6,331.07	0,331.07	
	Supply of 12mm thick PVC rubber		<del>                                     </del>		+				
	matting of IM > 1M size and with ISI		sqm	6			1,406	8,437.95	
	First filling of Mobile oil		Job	1			3,000.00	3,000.00	
	Installation of D.G. set complete with		1				75 000 00	25 000 00	
	construction of foundation etc		Job	1			25,000.00	25,000,00	
	Commissioning of the D,G set		Job	1			10,000	10,000.00	
	including fuel for a max, period of 8								
	Testing of the D.G. set		Job	1			10,000	10,000.00	
								0.00	
	Electro- Magnetic Flow meter							0 00	
	Direct on line Full Bore electro-				1	1			
	magnetic Flow meter for sewage							]	
	application. The flow meter shall be							1	
	suitable for bi directional flow								
	measurement. This shall be having								
	protection category of the sensor shall be IP68and protection category for the								
	transmitter shall be IP- 65. Accuracy		no.	1.0			285,624.00	285,624.00	
	shall be of +/- 5% of measured value						.,		
1	without being affected by variation in								
	the line pressure Equipment should be								
	complete with converter, transmitting								
	device and should be fully								
-	programmable with digital flow								
	indicator & integrator etc. The sensor		+		-			0.00	
	7 1 17 1 17 1 17 1				+				
	Internal and External Lighting	· · · · · · · · · · · · · · · · · · ·	-		+			0.00	
								0.00	

						FC Portio	on (Yen)	LC Porti	on (INR)	n 2
		Items	Specification	Unst	Qty	Unit Price	Amount	Unit Price	Amount	Reference
		Point Wiring in surface rigid P.V.C.								
		conduit system with Flush type Accessories Point wiring including		1 1						
		metallic switch box, sheet, switches,		1						
		sockets, lamp holders/ceiling roses etc								
		with 1,5 Sq. mm. PVC insulated cable		1 1						
		FR with copper multi strand conductor							0.00	
		ISI marked in Surface rigid P.V.C. conduit (MMS) ISI Marked of suitable								
		size and 1.5 Sq. mm. PVC insulated								
		copper earth continuity conductor of								
		green colour inside conduit including								
		painting etc. as required as per  Light Point/Fan Points.							0.00	
		+ · · · · · · · · · · · · · · · · · · ·			3.00	-		583.00	1,749.00	
		Medium point (up to 6 mtr.)		nos		+			2,682.00	
		Long point (up to 10 mtr.)  3 Pin 6 Amp socket outlet on Separate		nos	3.00			894.00		
		Board							0,00	
		Medium point (up to 6 mtr.)		nos	3.00			595 00	1,785.00	
		Circuit Wiring -				1				
		Wiring for circuit wiring with PVC insulated cable FR with copper multi								
		strand conductor ISI marked in Surface							0.00	
		rigid P.V.C. conduit (MMS) of ISI							1	
		marked suitable size including painting		1					ł	
		etc as required as per specification 2x2.5 Sq.mm.		m	27 00			104 06	2,809.62	
		METALLIC SWITCH BOXES -		-		<del> </del>			-,	
		Supplying and fixing factory fabricated								
		hot dip galvanised switch box for								
		normal flush type accessories of minimum 1.2 mm (18 swg gauge)								
		thickness with earth terminal stud with			1			242	729,63	
		nut and washer, with 3 mm thick		nos.	3			243	729.03	
		synthetic phenollic resin bonded								
		laminated sheet conforming to grade PI of IS:2036-1974 on surface / concealed								
		including painting etc. as required as								
		per specification- MS Box 200 mm X	,							
		Suppyling of ISI Marked Switch Fuse								
		Unit (rewirable type ) triple pole with neutral link ,415 Volt having conduit /							0 00	
		cable gland entry with two earthing							1	
		terminals confirming to IS . 13947(Part								
		63Amp		nos	2.00			3,746 16	7,492.32	
İ		Supplying, fixing & testing of approved								
		make of low watt surface mounting luminaires, made of white powder							1	
i		coated CRCA sheet steel housing with				-				
		aluminium mirror reflector complete		1 1					0.00	
		with control gear, wired upto terminal block on a detachable tray including								
		fixing on wall/ Ceiling on wooden								
		round block including wiring &								
		connection as required and suitable for				1	ļ	1-20-10		
		2 no. 18 watt CFL	- · · · · · · · · · · · · · · · · · · ·	nos.	4.00	-		1,756.92	7,027.68	
		Supplying, Fixing and Testing of Compact Flourescent Lamp (CFL) with								
		inbuilt electronic ballast ISI marked of							0.00	
		approved make as required as per								
		18 Watt		поѕ	4.00	-		246,84	987.36	···
		Supplying, fixing and testing of approved make bulk head luminaire								
		consisting of pressure die aluminium								
		housing lamp holder, prismatic glass		nos.	2.00			617.10	1,234 20	
		cover, rubber gasket and wire guard,		1105	2.00	1		041,40	1,234.20	
		delux type, including fixing on wall as required, with necessary material								
		complete Fitting(sutiable for GLS w/o							1	
		Supplying, erection and testing of					T			***************************************
		approved make electric Ceiling fan of								
		double ball bearing complete with								
		standard down rod, canopy, hanging shackle, Aluminium blades, without								
		regulator, A.C. 230-250 volts including		nos.	2.00			2,078.00	4,156,00	
- 1		connections with all necessary material								
I		1 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		1 1		1	1		1	
		complete as required confirming toIS 374/1979 with upto date								

		4 4	1	6	FC Portio	n (Yen)	I.C Porti	on (INR)	Reference
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Keterence
	Supplying, erecting and testing of approved make fixhaust Pan heavy duty with mounting frame, blades AC 230-250 complete connection and including.		1105	2/			3,113.00	6,226.00	
	frame bolt/ Anchor hole fastners are complete finished and as required 300mm sweep 900 RPM								
	External							t) ()()	
	Porviding erecting, testing and commissioning solar street light system on 80 mm heavy duty galvanised iron pipe 6 meter hight with 30cm x 30cm x 2mm base plate installed own cement concrete padestal casing complete with solar panel, solar battery with charger, other accessories with control panel in weather proof pole box, solar fitting LHD type or CPL type 18 wait to		nos	2.00			37,147 <u>.00</u>	74,294 00	
 								0.00	
	Switchgent with Transformer							00,0	
	Double pole structure, complete with Isolator, Insulators, Lightening artestor, HG Fuses operating handle etc.		No	1 00			187,500 00	187,500 00	
	25 KVA, ONAN, HKV/0 415 V pole		No	1 00			94,200 00	94,200,00	
	L. T. Control Switch Gent Panel Board		-					0.00	
	SITC of wall!/hee standing floor	-	1						
	mounted dust and vermin proof compartmentalised cubical panel made out of CRCA sheet, required hardware, duly painted by either two coats of zine'red oxide primer followed by two coats of synthetic enamel paint for								
	powder coating in grey of required shade after (ising. The panel having PU/Neoprene tubber gasket of not less than 3mm thickness, separate detachable, gland plate M.S. base		Sq m	8,00			3,840,00	30,720 00	
	channel, hinged door with locking, arrangement for equipment'switchgear. Thickness of sheet shall not be less than 2.0mm. Load bearing structure shall be of 2.0mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments having bolted type doors with detachable extension type structure (only outer								
	Supplying and fixing of electrolytic grade Aluminium bus bar by means of SMC / DMC type insulator, high tensile nuts and bolts spring washers in existing panel including bending, cutting in required shape and size and colour coding with heat shrinkable PVC		kg	8.00			525,00	4,200.00	
	Incoming Panel		1					0,00	
	SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load								
	interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip, including making connections with lugs / spreaders etc. as required With Microprocessor based Release. 400 Amp, 25/35 kA, adjustable O/L & adjustable S/C setting		No.	3			38,700	116,100.00	
	Supply and fixing of following accessories for MCCB							0.00	
 1	Shunt trip Release		No.	3	1		1,740	5,220.00	
	Under Voltage Release		No	3	1		2,590.0	7,770.00	
 	Earth Fault Module	·	No.	3.00			1,650.00	4,950.00	
 	Outgoing Panels		+				,	0.00	

ME WE		B 18		0:	FC Portio	n (Yen)	LC Portio	on (INR)	D - F.
Language .	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz, O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push ( test ) to trip, includingmaking connections		No.	6			19,950	119,700 00	
	with lugs / spreaders etc. as required With Microprocessor based Release. up to 100 Amp., 16 kA, adjustable O/L & adjustable S/C setting Supply and fixing of following								
	accessories for MCCB.				<u> </u>			0.00	
	Shunt trip Release		No.	6	ļ		1,740	10,440_00	
 	Under Voltage Release		No.	- 6	-		2,590	15,540,00	
	Earth Fault Module SITC of DOL with panel conforming to applicable standards, with Graphical Display with atleast display of 5 different parameters at a time and display of 2 parameters with Bargraph, digital and analogue I/O, relay outputs, adjustable Accel/ Decel times, motor protection, RS 485 serial link for connections to Modbus 1.1 KW		No.	5			1,650	9,900.00	
	Level transmitters ultrasonic type - 8		No	1			110,490	110,490 00	
	meters liquid Automatic start / stop device according to prefixed level in the pump with timer and audio-visual signal or circuit such as hooter arrangement for lowest and highest allowable level in the sump.		No	5.0			5,000.00	25,000.00	
	Moisture sensing relay. Sensing device to signal and trip the motor against of water into oil chamber.		No.	5.0			5,000.00	25,000.00	
	Device for taking signal from the thermister in motor winding and		No.	5			5,000	25,000.00	
	tripping the circuit on reaching pre-set Single phasing preventor.		No.	5			2,500.00	12,500.00	
	Reverse rotation trip device for motor.  SITC of self healing MPP/MP type shunt capacitor (banks) conforming to IS:13340-41 / IEC:831-1&2 in existing panel or parallel with load terminals, the capacitor shall be fitted with discharge resistors, pressure sensitive disconnector (PSD) and shall have dissipation factor less than 0 0025 at 50 Hz and total wattage loss less than 0.5 Watt per KVAR, including making connections with suitable capacity conductors/cables testing as required Heavy duty Three phase 440 V		No KVAr	15,00			1,500	7,500 00 17,527 50	
	SITC of microprocessor based intelligent power factor correction relay having following sensing capacity secondary current, self analysing auto c/k setting according to targeted power factor setting, the relay shall have minimum three digit display unit for display of real power factor, targeted power factor, lag/lead capacitor switching status, alarm output for under current, over current, insufficient compensation, indication of switching on units, auto/manual status, and shall have over load protection, no volt release etc. as required. 6 to 8 stage.		No.	1.00			27,006.08	27,006.08	
	SF of Current Transformer, with all necessary support in existing panel including connection etc. as required up to 150 / 5 Ratio, 5 VA, class 1		No	5,00			436,83	2,184,13	
	SF of CT linked selector switch of 10 A for Ampere meter (4 position ) including making connection etc. as		No.	5 00			408,27	2,041 37	
	Pilot lamp with integral circuit, terminal block, including connection etc. as equired. Red/ yellow / Green colour		Set	15.00			285.51	4,282.60	
	Auxiliary Outgoing panels. These shall be required for the following purposes			<del></del>				0.00	

	Items	Specification	Unit	Qty	FC Portio	on (Yen)	LC Ports	on (INR)	Reference
	Reme	specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Plow meter, Level Indicator, Pressure							0.00	
_	Indicating Devices etc. For miscellaneous works such as								
	welding, Dewatering pups etc.							0.00	. Marin
	Spare Panel							0.00	
	STTC of quick make and quick break 4 POLE current limiting MCCB having								
	following current rating, short circuit		1						
	brenking capacity at 440/415 V, 50 Hz,								
	O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront								
	face and centralisedadjustable, line load								
	interchangeability, having positive		No	5	1		19,950	99,750.00	
	isolation capability, provision for UVR , shunt trip , earth fault trip, push ( test )								
	to trip, including making connections								
	with higs / spronders etc. as required		1						
	With Microprocessor based Release up to 100 Amp., 16 kA, adjustable O/L &								
	adjustable S/C setting								
	P/Laying XLPB insulated / P.V.C.								
	sheathed cable of L1 KV grade with aluminium conductor Armoured of		1 1						
	1S-7098-1/1554-1 approved make in		1						
	ground as per 1S 1255 meluding		111	30 00			692.00	20,760.00	
	exervation of 30cm×75cm size trench 25 cm thick under layer of sand IInd								
	class bricks covering, refilling								
	compaction of earth making necessary								
	P & Laying XLPE insulated		-			-			
	IS:7098/H 85 of Group1 and approved								
	make H T,cable for working voltage 11		1						
	K.V. Earthed direct in ground including executation of 30cm x100cm size		m	30,00			1.113.48	33,404.29	
	trench, 25cm layer of river sand, IInd		111	347,4117		1	1.113.46	33,404.29	
	class bricks covering, refilling earth,								
ļ	compaction of earth, making necessary								
	Providing & making heat shrinkable		-						
	type or/ outdoor/ straight through								
	terminations joint kit of Group1 and			2.00			12,073,00	24 146 000	
	approved make suitable for XLPE insulated 11 KV cable, with required		No	2,00			12,073,00	24,146,00	
	components, prepration of cable								
	ends, testing etc. as required of Supplying and making one end		-		-				
	termination with heavy duty single								
	compression brass gland SIBG type,								
	aluminium lugs duly crimped with crimping tool, PVC tape etc for		Set	26,00			408.27	10,615.14	
	following size of Armoured PVC								
	insulated & PVC sheathed/ XLPE								
	Plate Earthing as per IS:3043 with		1						
	copper Earth plate of size 600mm x								
	600mm x 3.0mm by embodying 3 to 4								
	mtr. below the ground level with 20 mm dia. G.l. 'B' class watering Pipe								
	including all accessories like nut, bolts,		C-4	6.00			6,745.10	40 470 68	
	reducer, nipple ,wire meshed funnel,		Set	6.00			6,745.10	40,470.58	
	and C.C. finished chamber covered with hinged type with locking								
	arrangement C.I. Cover, C.I. Frame of								
	size300mm x 300mm complete with								
	alternate layers of salt and S & Laying following size earth		+		-				A captures of
	wire/strip in horizontal or vertical run		1 1					1	
	in ground/surface/recess including		m	50.00			6.42	321.20	
	riveting, soldering, saddles, making connection etc. as required. 10 SWG								
	Power and Control cables for		+		+	<del> </del>	25 222 22	25,000,00	
	connecting motors of various drives		Lot	1.00			35,000.00	35,000.00	
	Rubber matting of 12 mm thickness and I.S.I. marked and suitable for 0.415		sqm	8.00			1,230.53	9,844.27	
	a.G.1, marked and sunable for 0.415		+		+	<del>  </del>		2,610,918.99	
						<del>                                     </del>		2,010,710.55	
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Rehabilitation of Existing Sewage Pumping Station MPS-4

		- 6-1	12 1	FC Portio	n (Yen)	LC Porti	on (INR)	
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
						_		
Direct Cost]								
Civil work		ļ					252,970	
Aechanical work		<u></u>					6,132,305	
Electrical work							3,528,822	
Rising Main		ļ					181,927	
	~~~~							
		1						
Sub-Total					0		10,096,024.15	
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	Car de	W 1000	-	FC Portio	n (Yen)	LC Portio	on (INR)	p
ligms	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
Rehabilitation of Existing Sowage Pumpi	ng Station IPS-4	5227		All Reports				
Chil work								
Removal of Corroded Steel & replacing			(21)		-			
with new steel with primer conting on the steel		MT	0.4			80,000,00	32,600.00	
Providing Ilpoxy Concrete of 50 mm		e.	20			2,000 00	40,000.00	
thick with Required primer etc		Sqm	-29			2,000 00	40,000	
Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. metres				-				
and under including cutting the patch in								
proper shape, raking out joints and preparing and plastering the surface of		0	50			102.00	5,450.00	
the wills complete including disposal		Sqm	30			100 110	3,450 00	
of rubbish to the dumping ground								
With cement morter 1 4 ( 1 cement 4								
Structural Steel Sections for Indiders etc		MT	1			75,000	75,000 00	
Repair of door, window shutters				İ				
melading cost of material and labour for change of damaged							0.00	
Style / rail of teak wood 30mm thick/		-		-			0.00	
 Aluminum Section								
4"Wide Plain Glass Panes 4mns thick		Rmt Sqm	16	-		200 325	2,000.00 3,250,00	
 Finishing wall with water proofing		odui	10			יהינ	5,2,50,00	
cement paint of approved brand and		Sqm	200			30	6,000,00	
manufacture and or required shade to		, sqiii	2.131.			-10	0,000,00	
Old Work( Old Fmishh)		-					0.00	
			70.71			- COV	39,269,91	
Restoration of Cement Flooring	····	Sqm	78.54	-		500		
 Misclaneous Repair Works Construction of New Concrete work for		IS	1			20,000	20,000,00	
numning station		1,8	1			30,000	30,000,00	
Total		_					252,969,91	
							-	
Mechanical work								
Inlet Coarse Bar Screens								
Mechanical Step type Screens SS304 1 m wide 1 m depth with bar clear bar		no				299,196.18	299,196.18	
spacing 20 mm			1					
Supply and installation of one set of			•			·		
complete Manuall cleaned coarse								
screen in the inlet chamber having the apperture size as 20mm. Screens shall		no				153,433.94	153,433.94	
be installed at an inclination of 700								
(max) to the horizontal.		1 1	1					
Belt Conveyor -500 mm width		no	1			178,113.64	178,113.64	
Screen Collection bin Trolley		no	1			243,178.32	243,178.32	
			· · ·	1				
Pumping Plants and Its Accessories							0.00	
PUMPING PLANTS		1 1					0.00	
 Non-clog, single stage, bottom suction		+						
submersible pump of Capacity =150		nos.	,			563,431.18	3,380,587.06	
cum/hrs and head 10m. at Peak Flows Non-clog, single stage, bottom suction		+	6	-				
submersible pump of Capacity =40		nos.				156,508 66	0.00	
 cum/hrs and head 11 m. at non Peak			0					
Supplying, erecting, testing & commissioning of Manually Operated								
Crane (single bridge girder carrying								
two wheels, complete with chain pulley block, load chain of welded		no.				184,964,78	184,964.78	
construction of alloy steel as per								
 IS:2429, hand chains for hoisting &			1					
Providing, installation, testing and commissioning of glycerin filled					Ţ			
Pressure gauge of following ranges with						1.160.15	7.601.70	
isolation valve and tap off pipe		no.				1,168.13	3,504.39	
complete in all respect as per technical			3					
 specification and as per direction of Tools and Tackles (As Per enclosed			3				0.00	
 a. Chain wrench		No				7,500.00	7,500.00	
 		No	1	-				
b. Pipe wrench		+	1			1,100.00	1,100,00	
 c_Screw wrench		No.	1	-		700.00	700.00	
d Ring spanners e Double ended spanners		No.	1			2,000.00	2,000.00	
		Set	1	1		1,000.00	1,000.00	

					FC Portio	n (Yen)	LC Porti	on (INR)	
14	ltems	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	f. Insulation pliers		No	1	1		250.00	250.00	
	g. Hammer with handle		No.	1			400,00	400.00	
	h. Hexa blade frame		No	1			150,00	150 00	
	i. Measuring tape of different size		Set	1			500,00	500 00	
	j. Sprit level set comprising of		No	1			1,000,00	1,000.00	
	- Filler gauge		No.	1				0,00	
	- Steel scale		No.	1				0,00	
	- Chisel (150, 200 mm)		No	1			****	0.00	
	- File (Flat, half round, round and triangular)		Set	1				0,00	
	k. Maggor HT & LT		No.	1			15,000.00	15,000.00	
	I. Crimping Tools		No	1			30,000.00	30,000.00	
	m. Multimeter		No.	1	ļ		3,000.00	3,000.00	
	n Power Drill		No.	1			5,000 00	5,000.00	
	Installation of all the equipments etc.		Job	1			150,000_00	150,000.00	
	Commissioning of pumping station.		Job	1			25,000.00	25,000.00	
	Testing of pumping plants.		job	11			25,000.00	25,000,00	
	Painting of all equipment and drives etc.		job	1			35,000.00	35,000,00	
								0,00	
	Valves and Fittings							0 00	
	Sluice valve							0_00	
	Manually operated Sluice Valve(DI) with H/w, PN10 conforming IS 1538							0 00	
	150 mm dia.		No	6			47,008.35	282,050,09	
	300 mm dia.		No	1			92,310.45	92,310.45	
	Non-Return valve							0,00	
	C.I.D/F Swing type Non-Return Valves as per IS:5312, (Part-1 & 2) Single/Multidoor type (with Lever & counterweight 400 mm & above) 700 mm & above Dual Plate Check Valves							0,00	
	150 mm dia.		No	5			23,792.23	118,961 15	
	300 mm dia.		No	1	1		49,283.91	49,283 91	
	D.F.C.I. Pipes and D.F. C.I. Specials		<b>†</b>					0.00	
	Delivery piping shall commence from 90° discharge duck foot bend of individual pump up to the start of rising main. This shall include column pipe, distance pieces, common header, bends and tees etc. as per following details:		kg	12,325			60,00	739,500 00	
								0.00	
	Providing, installation, testing and commissioning of following Stain less steel AISI 304 Expansion bellows of 10 bar rating with tie rods as per technical specifications and layout drawings including jointing material like nuts, bolts, rubber gaskets etc. complete in all respect as per technical specification and as per							0.00	
	150 mm dia		nos	5			8,599.19	42,995 96	
	Nuts & bolts of SS and rubber insertion /packing etc. @ 5% 0f the weight of CI		kg	616			100 00	61,625.00	
	piping and fittings		+		+			0,00	
								6,132,304.87	
	Electrical work				}				

					PC Portio	n (Yen)	LC Porti	on (INR)	
	ltoms	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	RPM Diesel Engine of suitable BHP &								_
	AC Brush less SPDP Alternator								
	mounted on a common base Prame &								
	coupled through a flexible coupling or close coupled Alternator shall be self				-				
	regulated with standard Alternator								
	Protection( Over voltage, over speed &								
	under voltage). Engine shall have								
	residential silencer, up to 10 M exhaust				İ				
	piping , electronic / Mechanical governor, Manual & electric Start								
	Batteries, Puel tank ( with Stand) &				-				
	piping control panel (16 C) with								
	MCGB (4P, 25 KA), Ammeter,								
	Voltmeter, Frequency Meter, Energy Meter & Hour Meter, Engine								
	instruments panel, AVM and with								
	Weatherproof, powder coated								
	Accoustic enclosure for DG set for								
	sound attenuation fabricated from 2.0 minCRCA sheet steel (structure) with		1						
	side wall fabricated from 2.0 mm								
	CRCA sheet & filled with 100mm thick								
	glass wool(96Kg/m3) as per IS 8183								
	the doors of 100 mm thick and								
	fubricated from 1 from CRCA sheet								
	An Cooled & Naturally Aspirated-								
	Along with AMF Panel 100/125 KVA at 0.8 pt 415V 50Hz 3-O		no	1			1,317,600,00	1,317,600 00	
	SITC of AUTO MAINS FAILURE	· · · · · · · · · · · · · · · · · · ·	110				2,317,100,00	1,337,000.00	
	(AMF) Panel fabricated from CRCA								
	sheet steel 2mm Thick , Powder coated								
1	finish , Engine START & STOP commands, control								
	RELAYS, selector switches for								
	Ammeter & Voltmeter, Ammeter &								
	Voltmeter, Control & Power								
	Contactors, Timers, Electronic Hooter								
	Visual & Alarm indication for faults, UPS, operator interface panel complete								
	100 KVA at 0 8 pf 415V 50Ftz 3-Ω		no	1	<u> </u>		225,000.00	225,000 00	
	Complete power wiring along with				Ì				
ľ	cables & materials from D.G. set to the Incoming Panel of L.T. panel as per I.E.		I.S	I			30,000.00		
				•	<del>                                     </del>				
	Complete earthing of the D.G. set, including supply of all materials,								
	construction of earth pits as per I.E.		Job	1			16,745.10	16,745,10	
	rules.								
	Supply of 12mm thick PVC rubber		+-+						
	matting of 1M × 1M size and with ISI		sqm	6			1,230.53		
	First filling of Mobile oil		Job	1			6,000.00	6,000,00	
	construction of foundation etc		Job	1			35,000.00		
	Commissioning of the D.G set		Job	1			25,000.00	25,000,00	
	including fuel for a max. period of 8		x 1	1.00	1		15 000 00	15,000,00	
	Testing of the D G set.		Job	1.00			15,000.00	15,000.00	
	Electro- Magnetic Flow meter		<del>  </del>					0,00	
	<u> </u>								
	Direct on line Full Bore electro-								
1	magnetic Flow meter for sewage		]						
	1:								
	application. The flow meter shall be								
	suitable for bi directional flow								
	suitable for bi directional flow measurement. This shall be having protection category of the sensor shall be IP68and protection category for the								
	suitable for bi directional flow measurement. This shall be having protection category of the sensor shall be IP68and protection category for the transmitter shall be IP-65. Accuracy		7/254				500 150 50	500 160 70	
	suitable for bi directional flow measurement. This shall be having protection category of the sensor shall be IP-68 and protection category for the transmitter shall be IP-65. Accuracy shall be of +/-5% of measured value		no.	ī			598,159.50	598,159.50	
	suitable for bi directional flow measurement. This shall be having protection category of the sensor shall be IP-68and protection category for the transmitter shall be IP-65. Accuracy shall be of +/-5% of measured value without being affected by variation in		no.	ī			598,159.50	598,159.50	
	suitable for bi directional flow measurement. This shall be having protection category of the sensor shall be IP-68 and protection category for the transmitter shall be IP-65. Accuracy shall be of +/-5% of measured value		no.	1			598,159.50	598,159.50	
	suitable for bi directional flow measurement. This shall be having protection category of the sensor shall be IP-68and protection category for the transmitter shall be IP-65. Accuracy shall be of +/- 5% of measured value without being affected by variation in the line pressure. Equipment should be complete with converter, transmitting device and should be fully		no.	i	T T T T T T T T T T T T T T T T T T T		598,159.50	598,159,50	
	suitable for bi directional flow measurement. This shall be having protection category of the sensor shall be IP-68 and protection category for the transmitter shall be IP-65. Accuracy shall be of +/-5% of measured value without being affected by variation in the line pressure. Equipment should be complete with converter, transmitting device and should be fully programmable with digital flow		no.	Î			598,159.50	598,159,50	
	suitable for bi directional flow measurement. This shall be having protection category of the sensor shall be IP-68 and protection category for the transmitter shall be IP-65. Accuracy shall be of +/-5% of measured value without being affected by variation in the line pressure. Equipment should be complete with converter, transmitting device and should be fully programmable with digital flow indicator & integrator etc. The sensor		no.	Ĭ			598,159.50	598,159.50	
	suitable for bi directional flow measurement. This shall be having protection category of the sensor shall be IP68and protection category for the transmitter shall be IP-65. Accuracy shall be of +/-5% of measured value without being affected by variation in the line pressure. Equipment should be complete with converter, transmitting device and should be fully programmable with digital flow indicator & integrator etc. The sensor housing and junction box should be of		no.	ī			598,159.50	598,159.50	
	suitable for bi directional flow measurement. This shall be having protection category of the sensor shall be IP-68 and protection category for the transmitter shall be IP-65. Accuracy shall be of +/-5% of measured value without being affected by variation in the line pressure. Equipment should be complete with converter, transmitting device and should be fully programmable with digital flow indicator & integrator etc. The sensor		no.	ī			59 <b>8</b> ,159.50	598,159.50	
	suitable for bi directional flow measurement. This shall be having protection category of the sensor shall be IP68and protection category for the transmitter shall be IP-65. Accuracy shall be of +/-5% of measured value without being affected by variation in the line pressure. Equipment should be complete with converter, transmitting device and should be fully programmable with digital flow indicator & integrator etc. The sensor housing and junction box should be of		no.	Ī			59 <b>8</b> ,159.50	598,159.50	
	suitable for bi directional flow measurement. This shall be having protection category of the sensor shall be IP68and protection category for the transmitter shall be IP-65. Accuracy shall be of +/-5% of measured value without being affected by variation in the line pressure. Equipment should be complete with converter, transmitting device and should be fully programmable with digital flow indicator & integrator etc. The sensor housing and junction box should be of		no.	Ī			598,159.50	598,159.50 0.00 0.00	

	ltems	Specification	Unit	Qty	FC Portio	n (Yen)	LC Portion	on (INK)	Reference
	items	Specification	Oint	Qiy	Unit Price	Amount	Unit Price	Amount	Ketetence
	 Point Wiring in surface rigid P V C								
	conduit system with Flush type								
	Accessories. Point wiring including metallic switch box, sheet, switches,								
	sockets, lamp holders/ceiling roses etc								
	with 1.5 Sq. mm. PVC insulated cable								
	FR with copper multi strand conductor							0.00	
	ISI marked in Surface rigid P V C					1			
	conduit (MMS) ISI Marked of suitable								
	size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of								
	green colour inside conduit including								
	painting etc. as required as per								
	Light Point/Fan Points							0 00	
	 Medium point (up to 6 mtr.)		nos.	5			583	2,916.38	
-	 Long point (up to 10 mtr.)		nos.	5			894	4,469 85	
1	3 Pin 6 Amp socket outlet on Separate Board							0.00	
	 Medium point (up to 6 mtr.)		nos	5			595	2,974.13	
	 Circuit Wiring -								
1	Wiring for circuit wiring with PVC								
	insulated cable FR with copper multi							0.00	
	strand conductor ISI marked in Surface rigid P.V.C. conduit (MMS) of ISI							0 00	
	marked suitable size including painting								
	etc as required as per specification								
	 2x2.5 Sq.mm.		m	45,0			104.00	4,680.00	
	 METALLIC SWITCH BOXES -								
	Supplying and fixing factory fabricated								
	hot dip galvanised switch box for normal flush type accessories of								
i	minimum 1.2 mm (18 swg gauge)								
i	thickness with earth terminal stud with		1	_				1.100.70	
	nut and washer, with 3 mm thick		nos	5			232	1,160 78	
	synthetic phenollic resin bonded							]	
	laminated sheet conforming to grade PI								
	of IS:2036-1974 on surface / concealed								
- 1	including painting etc. as required as per specification- MS Box 200 mm X								
	 Suppyling of ISI Marked Switch Fuse				1				
	Unit (rewirable type ) triple pole with				1				
i	neutral link ,415 Volt having conduit /							0 00	
	cable gland entry with two earthing								
1	terminals confirming to IS 13947(Part								
	 I & III) - 63Amp		nos	4		<u> </u>	3,576	14,303.52	
	 Supplying, fixing & testing of approved		1200						
- 1	make of low watt surface mounting		1 1						
İ	luminaires, made of white powder							0 00	
	coated CRCA sheet steel housing with					ļ			
	 aluminium mirror reflector complete		nos	4.00		-	1,677,06	6,708 24	
	 2 no. 18 watt CFL Supplying, Fixing and Testing of		1105	4.00	+	<u> </u>	1,077,00	0,700 24	
	Compact Flourescent Lamp (CFL) with		1					0.00	
	inbuilt electronic ballast ISI marked of							0.00	
	 approved make as required as per				-		505.00	102125	
	 18 Watt		nos	8.00		<del>                                     </del>	235.62	1,884.96	
	Supplying, fixing and testing of								
	approved make bulk head luminaire								
	consisting of pressure die aluminium								
	housing lamp holder, prismatic glass		222	2.00			590.05	2,356.20	
	cover, rubber gasket and wire guard, delux type, including fixing on wall as		nos.	4.00			589.05	2,330.40	
	required, with necessary material								
	complete Fitting(sutiable for GLS w/o								
	iamp upto 11 watt Retorted CFL)								
	 Supplying, erection and testing of					+	<del> </del>		
	approved make electric Ceiling fan of						_		
	double ball bearing complete with								
	standard down rod, canopy, hanging								
	shackle, Aluminium blades, without		nos	2.00			1,983.14	3,966.27	
	regulator, A.C. 230-250 volts including		1105	2.50			-,505,14	5,500.27	
	connections with all necessary material								
	complete as required confirming toIS								
	:374/1979 with upto date ammendments Ceiling Fan (Energy								
	 Supplying, erecting and testing of					<b>†</b>			
	approved make Exhaust Fan heavy duty								
	with mounting frame, blades AC 230-						12.0	50	
	250 complete connection and including,		nos.	2.00			2,971.82	5,943.63	
	frame bolt/ Anchor hole fastners etc.								
	complete finished and as required								
1	300mm sweep 900 RPM		1		-1		1	I	

	Canadian	1200	0	PC Portio	n (Yen)	LC Portio	on (INR)	Reference
ltems	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
Porviding erecting, testing and commissioning solar street light system on 80 mm heavy duty galvanized iron pipe 6 meter hight with 30cm x 30cm x 2mm hase plate installed own cement concrete padestal easing complete with solar panel, solar battery with charger, other accessories with control panel in weather proof pole box, solar		not	2.00			54,109 67	108,219,34	
fitting LBD type or CPL type 18 watt to 20 watt (set								
20 Will (ag)		-					0.00	
Switchgear with Cabling							0.00	
L.T. Control Switch Gent Panel Board.							0.00	
STPC of wall!/free standing floor mounted dust and vermin proof compartmentalised cubical panel made out of CRCA sheet, required hardwine, duly panited by either two coats of zane/ted oxide primer followed by two coats of synthetic enamel paint for powder conting in give or required shade after tisting. The panel having PU/Neoprene rubber gasket of not less than 3mm thickness, separate detachable, gland plate M.S. base channel, hinged door with locking arrangement for equipment/switchgea. Thickness of sheet shall not be less than 2.0mm. Load bearing structure shall be of 2.0mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments having bolted type doors with detachable. Supplying and fixing of electrolytic grade Aluminum bus bar by means of SMC / DMC type insulator, high tensile.		Sq m	12.06			3,840,00	46,080,00	
nuts and holts spring washers in existing panel including bending cutting in required shape and size and colour coding with heat shrinkable PVC Incoming Panel		kц	16 00			525 00	5,250.00	
SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V. 50 Hz. O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip, including making connections with lugs / spreaders etc. as required With Microprocessor based Release. 200 Amp, 25/35 kA, adjustable O/L &		No.	3.00			38,700.00	116,100 00	
adjustable S/C setting Supply and fixing of following		+		+			0.00	
accessories for MCCB		1		-			0.00	
Shunt trip Release		No.	3.00	-		1,740.00	5,220.00	
 Under Voltage Release  Earth Fault Module		No.	3.00	-		2,590.00 1,650.00	7,770,00 4,950,00	
 Outgoing Panels		140.	٠٠٠, د	-		1,030.00	0.00	
SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR , shunt trip ,earth fault trip, push ( test ) to trip , including making connections with lugs / spreaders etc. as required With		No.	8.00			19,950.00	159,600.00	
Microprocessor based Release. up to 100 Amp , 16 kA, adjustable O/L & Supply and fixing of following accessories for MCCB							0.00	
Shunt trip Release		No.	6			1,740	10,440.00	
 Under Voltage Release		No.	6.00	T	I I	2,590.00	15,540.00	

		1 1		FC Portio	n (Yen)	LC Porti	on (INR)	D.F.
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
th panel conforming to dards, with Graphical cleast display of 5 leters at a time and ameters with Bargraph, logue I/O,relay outputs, el/ Decel times, motor 485 serial link for		No.	6			17,400.0	104,400.00	
Modbus. 7.5 KW ers ultrasonic type - 10		No	1 00			112,405.16	112,405 16	
/ stop device according el in the pump with timer al signal or circuit such gement for lowest and ole level in the sump.		No.	6.00			5,000.00	30,000,00	
ng relay Sensing device ip the motor against of hamber.		No.	6			5,000	30,000.00	
ng signal from the otor winding and cuit on reaching pre-set		No.	6.0			5,000.00	30,000.00	
preventor.		No.	6			2,500	15,000.00	
n trip device for motor.		No.	6			1,500	9,000,00	
aling MPP/MP type (banks) conforming to EC:831-1&2 in existing of with load terminals, hall be fitted with tors, pressure sensitive PSD ) and shall have or less than 0.025 at 50 attage loss less than 0.5 R. including making th suitable capacity less testing as duty Three phase 440 V		KVAr	60			1,169	70,149.01	
orocessor based er factor correction relaying sensing capacity ent, self analysing autoording to targeted power he relay shall have digit display unit for power factor, targeted ag/lead capacitor s, alarm output for under urrent, insufficient indication of switching manual status, and shall protection, no volt equired, 6 to 8 stage.		No.	1			27,000	27,000.00	
Fransformer, with all ort in existing panel ection etc. as required up 5,5 VA, class 1		No	6			437	2,620.95	
d selector switch of 10 A ter (4 position ) ng connection etc. as		No.	6 0			408.27	2,449 65	
V, LED (22.5 mm dia ) integral circuit, terminal g connection etc. as rellow / Green colour		Set	20.0			285,51	5,710.14	
oing panels. These shall the following purposes							0.00	
evel Indicator, Pressure ices etc.							0.00	
ous works such as							0.00	
tering pups etc.		+					0.00	
make and quick break 4 limiting MCCB having entiting MCCB having that the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of		No	5,00			19,950.00	99,750.00	
limitinent ratiity at ings as 2C 609 diseda lity, haility, path faung maeaders cessor	g MCCB having ng, short circuit 440/415 V, 50 Hz; and conforming to 147-2 withfront djustable, line load aving positive provision for UVR. It trip, push (test) king connections etc as required based Release up adjustable O/L &	g MCCB having ng, short circuit 440/415 V, 50 Hz; nd conforming to 147-2 withfront djustable, line load aving positive provision for UVR It trip, push ( test ) king connections etc as required - based Release up adjustable O/L &	g MCCB having ng, short circuit 440/415 V, 50 Hz, nd conforming to 147-2 withfront djustable, line load aving positive No. It trip, push ( test ) king connections etc as required based Release up adjustable O/L &	g MCCB having ng, short circuit 440/415 V, 50 Hz; nd conforming to 147-2 withfront djustable, line load aving positive No. 5.00  It trip, push ( test ) king connections etc as required - based Release up adjustable O/L &	g MCCB having ng, short circuit 440/415 V, 50 Hz; nd conforming to 147-2 withfront djustable, line load aving positive provision for UVR It trip, push ( test ) king connections etc as required based Release up adjustable O/L &	g MCCB having ng, short circuit 440/415 V, 50 Hz, nd conforming to 147-2 withfront djustable, line load aving positive No. 5.00  No. 5.00  It trip, push ( test ) king connections etc as required based Release up adjustable O/L &	g MCCB having ng, short circuit 440/415 V, 50 Hz; nd conforming to 147-2 withfront djustable, line load aving positive provision for UVR It trip, push ( test ) king connections etc as required based Release up adjustable O/L &	g MCCB having ng, short circuit 440/415 V, 50 Hz; nd conforming to 147-2 withfront djustable, line load aving positive provision for UVR It trip, push ( test ) king connections etc as required based Release up adjustable O/L &

			14/20100		FC Portio	n (Yen)	LC Porti	on (INR)	n e
	Roma	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	P/Laying XLPE insulated / P.V.C.								
	sheathed cable of 1.1 KV grade with								
	aluminium conductor Armoured of 15:7098-1/1554-1 approved make in								
	ground as per IS:1255 including		1990	.0.00			605.78	11 6 11 22	
	exenuation of 30cmx75cm size trench,		m	60 00			692 35	41,541 23	
	25 cm thick under layer of sand lind								
	class bricks covering, refilling								
	connection, testing etc. as required of								
	P & Laying XLPE insulated								
	IS:7098/II/85 of Group I and approved make ILT cable for working voltage II								
	K.V. Barthed direct in ground including								
	excavition of 30cm x100cm size		m	60.00			1,113.48	66,808.58	
	trench, 25cm layer of river sand, Hnd								
	class bricks covering, refilling earth, compaction of earth, making necessary								
	connection testing etc. as required of								
	Providing & making heat shrinkable								
	type or/ outdoor/ straight through terminations/joint kit of Group1 and								
	approved make suitable for XLPE		No	4.00			12,073.00	48,292,00	
	insulated 11 KV cable, with required								
	components, prepration of cable								
-	ends testing etc. as required of Supplying and making one end								
	termination with heavy duty single								
	compression brass gland SIBG type								
	aluminum lugs duly crimped with		Set	4,00			623 03	2,492,11	
	erimping tool, PVC tape etc for following size of Atmoured PVC								
	insulated & PVC sheathed XLPF		-						
	aluminium conductor cable of 1100 volt				ļ				
	Plate Earthing as per IS:3043 with copper Earth plate of size 600mm x								
	600mm x 3 0mm by embodying 3 to 4								
	mti, below the ground level with 20								
	mm dia G L 'B' class watering Pipe								
	including all accessories like nut, bolts, reducer, nipple, wire meshed funnel,		Set	6.00			6,745,10	40,470,58	
ļ	and C.C. finished chamber covered								
İ	with hinged type with locking								
	arrangement C.I. Cover, C.I. Frame of size300mm x		i l						
	300mm complete with alternate layers								
	S & Laying following size earth								
	wire/strip in horizontal or vertical run			100.00			4.12	(42.20	
	in ground/surface/recess including riveting, soldering, saddles, making		m	100,00			6,42	642,39	
ļ	connection etc. as required, 10 SWG								
	Power and Control cables for		Lot	1.00			40,000.00	40,000.00	
	connecting motors of various drives  Rubber matting of 12 mm thickness and				<del> </del>				
	I.S.I. marked and suitable for 0.415		sqm	5			1,231	6,152.67	
	Total							3,528,822 37	
			+		<del> </del>				
	Rising Main		+		-				
			+		-			<del>                                     </del>	
	Mechanical		73.4	20.00	+		120010	120 072 00	
	Supply of DI K9 Pipe 300 mm Dia.		RM	30 00			4,269.10	128,073.00	
	Spacials @ 10% of Cost of pipe		LS		-			0.00	
	Total Mech. Cost		1		1			0.00	
	Civil							0 00	
	Excavation for pipe line in ordinary soil								
	with lift upto 1.5 m and lead upto 50 m including refilling, watering and								
	ramming of excavated earth in trenches		cum	40,50			183.40	7,427.70	
	after laying pipe line, removal and						- MIT 140 T	*.07253.7	
	disposal of surplus material upto a								
	distance of 50 m.			3224	-		1-29		
	Laying Of pipe		RM	30			1,547.54	46,426.30	
			1					181,927 00	
			$\perp$ $\top$						
			7 1						
l l					_				

## Rehabilitation and Upgradation of Exsisting 6 MLD Sewage Treatment Plant

	Marie	HE	FIE	FC Portion	n (Yen)	LC Porti	on (INR)	MINE TO THE PARTY OF THE
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
[Direct Cost]								
Civil work		рс	1		0		8,141,004.61	
Mechanical work		рс	1		0		33,129,600.00	
Electrical work		pc	1	ļ <u>.</u>	0		16,196,310.00	
Sub-Total					0		57,466,914.61	
						***************************************		
		ľ						
		<b></b>						
		-						
		<del> </del>		-				
				<del> </del>	<del> </del>			
				-				
		-			-	-		
		-		-			-	
		]		l		1		

	Itoms	Specification	Unit	Qıy	FC Portion	(1411)		on (INR)	Reference
1	Nyma	S. Is a second or Mr.	100	A FILL O	Unit Price	Amount	Unit Price	Amount	1.014.0100
	Rehabilitation and Upgradatio	n of Exsisting 6 A	ILD Sen	vage Trea	tment Plant	landa.	SEAT COL		
					1-1			0.00	
	Civil work foor 6MLD STP		LS	1,0		-	7,000,000.00	7,000,000.00	
	INTERNAL DEVELOPEMENT OF T	THE ROADS	-					0.00	
	Construction of Bitumen Road	T. RONDS	SQMT	250,0			1,921.07	480,267.86	
	Providing and laying 60 mm thick								
	factory made cement concrete interlocking paver block of M =30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc, all complete as		SQMT	15.0			557.45	8,361.75	
	ner the direction of Engineer in								- 141 10.11
								0,00	
	Landscaping and Protection Works							0.00	
	Lanuscaping and Protection Works		-					0.00	
	Grassing with selection No. 1 grass								
	including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the good earth shall be paid for separately).							0.00	
	In rows 2 cm apart in both		SQMT	300.0			841.25	252,375.00	
- 23	directions		+ +					0.00	
						·		0.00	
					<del></del>			0.00	
	Specification							0.00	
	Electrical fitting		Ls	1.0			200,000.00	200,000.00	
	Mechanical Fittings		I.s	1.0			200,000.00	200,000.00	
	Weenings Trangs		1.0				200,000,00	0.00	
					-				
								0.00	
-								8,141,004.61	
			-					8,141,004.01	
	Mechanical work	EOLIDA (DA DO CO					220.000	460,000,00	
	INLET GATE	EQUIPMENT COST INSTALLATION	No.	2			230,000	460,000.00	
		COST	No.	2			4,600	9,200.00	
								0.00	
	FINE SCREEN (MECHANICAL)	EQUIPMENT COST	No.	I			2,000,000	2,000,000.00	
		INSTALLATION	No.	1			40,000	40,000.00	
		COST	140.			<del></del>	40,000		
								0.00	
	FINE SCREEN (MANUAL)	EQUIPMENT COST	No.	1			250,000	250,000.00	
		INSTALLATION COST	No.	1			5,000	5,000.00	
		0001				~~~~		0.00	•
	BELT CONVEYOR	EQUIPMENT COST	No.	1			400,000	400,000.00	
		INSTALLATION	<del>  </del>					<del></del>	
		COST	No.	1			8,000	8,000.00	
			1					0.00	
	GRIT CHAMBER	EQUIPMENT COST	No.	2			1,100,000	2,200,000.00	
		INSTALLATION	No.	2			22,000	44,000.00	
		COST	1		<del> </del>			0.00	
	CIT OPPIE DOGDIO DID G	EOI IIDMARATE COCT	NT.		<del> </del>	-	100.000		
-		EQUIPMENT COST INSTALLATION	No.	3			100,000	300,000.00	
		COST	No.	3			2,000	6,000.00	
								0.00	
	MIXERS FUR CLURINE	EQUIPMENT COST	No.	2			150,000	300,000.00	
	ISO I I I I I I I I I I I I I I I I I I	INSTALLATION	<del> </del>						
		COST	No.	2	ļl		3,000	6,000.00	
								0.00	

## SEWAGE PUMPING STATION IPS-5

THE PERSON NAMED IN COLUMN		Table 1	1-13/1	FC Portio	n (Yen)	LC Portion	on (INR)	n c
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
							_	
[Direct Cost]							3,786,162	
Civil work		1					7,154,333.65	
Mechanical work							2,844,344.41	
Electrical work		<del> </del>					2,844,344.41	
				-				
		-						
		<del> </del>						·
		-						
				-				
		ļ		-				
		-						
		1					40.00:	
Sub-Total		ļ			0		13,784,839.95	
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		0	1000	-	PC Portio	n (Yen)	1,C Port	ion (INK)	0.40
	ltems	Specification	Unit	Qty.	Unit Price	Amount	Unit Price	Amount	Reference
	SEWAGE PUMPING STATION IPS-3			1-104			3-4-11		
	Civil work								
	Excessation								•
	Excavation for following depth B.G.L. for construction of sump-cum-pump house in ordinary soil including filling								
	watering ramming and disposal of surplus soil upto a distance of 50 M in wet condition.								
PJN SOR 2014-15 3001	0.00 - 1.50 M		М3	75.36			184,79	13,925,77	
PJN SOR 2014-15 3002	1.50 - 3.00 M		M3	75,36			231,00	17,408.16	
PJN SOR 2014-15 3003 PJN SOR 2014-15 3004	3.00 - 4.50 M		M3 M3	75.36 75.36		ļl	291 00 340 00	21,929,76 25,622,40	
JPJN SOR_2014-15_3005	6.00 M = 7.5 M	···	M3	75.36			443 00	33,384.48	
PJN SOR 2014-15 3006			M3	75,36			583.00	43,934.88	
	Same as above but in soil mixed with kankar etc		1,8	ı			46,861.64	46,861,64	
	Sheet piling & timbering during the execution and construction of works including all material, labour, T&P etcomplete required for proper completion of the work and its dismanting after completion of work.							0.00	
JPJN SOR_2014-15_3050			МЗ	61.23			1,899	116,275,77	
JPJN SOR_2014-15_3050	3.00 - 6.00 M		M3	61.23			2,625	160,728.75	
			M3	40.82			3,417	139,481,94	
JPJN SOR_2014-15_3052	0,00- 8 0081		161.5	40.65			3,417	<del>                                     </del>	
JPJN SOR_2014-15_1017	Supply and lay PCC 1.4.8 in cement fine sand and 40mm brick ballast in foundation including supply of all labour, T&P in wet condition		М3	9.94			6,354 00	63,221 51	1
	naced from the condition							0.00	
	Reinforced cement concrete work 1 1 14/23 in raft foundation side wall excluding cost of centering and							0.00	
TPJN SOR_2014-15_1023			M3	2.45	1		12,715,00	31,191 48	
PJN SOR 2014-15 1023	0.00 - 1.50 M		Мз	7.36			13,097.00	96,385.73	
% above item 1023	1.50 - 3.00 M		M3	7.30			13,882.82	102,168.88	***
% above item 1023	3.00 - 4.50 M		M3	7.36			15,132,27	111,364.08	
% above item 1023	4.50 - 6.00 M		M3	7.36	<u> </u>		16,645.50	122,500.49	
% above item 1023	6.00 - 7.50 M		M3	7.36			18,310.05	134,750.53	
77 40070 1011 1025	0.00 - 7.30 19		141.7	7			10,711,00	0.00	
	Same as above but in ring beam at		М3	12			12,904.00	158,275.63	
PJN SOR_2014-15_1022	pilnth level and floor level,								
	Screen Slab		M3	28			12,904.00	364,667.04	
	R.C.C. 1:11/2:3 in floor slab of pump							0.00	<del> </del>
PJN SOR_2014-15_1022	house Less: for opening		M3	4.4			12,904.00	56,725.98	
				,				0.00	
PJN SOR_2014-15_1022	R.C.C. 1.11/2:3 in roof slab		M3	15.07			12,904.00	194,489.09	
								0.00	
	R.C.C. 1:11/2:3 in cement coarse sand		M3	3.00			12,715.00	38,145.00	
PJN SOR_2014-15_1025	and 10-20mm grit for Staircase		-				,		
GD 0012 40.0	Centering and shuttering including		250	40.1.00			0.67.40	0.00	
SR_2013_4.3,2	struting propping etc. and removal of		M3	431,88			367,40	158,670 88	
			1					0.00	
PJN SOR_2014-15_1031	Brick work in 1:6 in pump house.		M3	15.63			5,819,00	90,934.60	
DD100D 001416 1100	12mm thick plaster in 1.6 in pump		M3	281.53	-		151,33	0.00 42,603.93	
PJN SOR_2014-15_1190-	house		101.5	201.33			131,33	0 00	
	Supply and fixing of I.S.M.B. 250 @ Kg/M 37.30 and M.S. grill, door including one coat of redoxide and two coats of black Japan paint including fabrication, supply and fixing of		Kg	300 00			90,60	27,180 00	
	fabrication, supply and fixing of Provision for water proofing		Kg.	500			75.00	37,500.00	
	compound		1					0,00	
	Providing and fixing M.S. angle iron door frame including frame 50x50x6 mm including all labour and material etc. complete.		No	1			3,000,00	3,000.00	

				STEE !	FC Portio	n (Yen)	LC Portion	on (INR)	عاد السلامين
	ltems	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
								0 00	
	Providing and fixing steel shutters							10.050.00	
	including cost of all labour and material etc. complete.		M2	4.68			3,900,00	18,252,00	
								0.00	
	Supply of rubber matting.		Kg.	402			60.00	24,115.20	
								0.00	
DDI COD 2014 15 1	Supply of all materials and painting							0.00	
PJN_SUR_2014-15_1	253 snow-cem paint inside and outside the Inside & Outside 1x3 14x6,5x5		M2	267	<u> </u>		18 24	4,868 26	
			+					0.00	
	Enamel painting in door & windows		M2	7.74	<u> </u>		134.83	1,043.58	
	including labour and material costs.		1712	*.,,	<del>                                     </del>		15 1,05	0 00	
								0.00	
	Uther Building Works Based in area							0.00	
NID 111(D)	a) Operation Room		sqm	9	+		21,760	195,840 00	
PWD _1.1.1 (B)	b) HT Room		sqm	9			21,760	195,840.00	
WD 1.1.1 (B)	c) Transformer Yard and Generator		sqm	16	<del> </del>		21,760	348,160.00	
(11)	Room	***			1			0.00	
								0.00	
	Site clearance and other unforeseen		LS	1			10,000.00	10,000,00	
	THE THE							0.00	
	Other Works							0.00	
	Construction of boundary Wall in Brick Masonary - (230 mm thick I mtr in		RM	80 00			5,792.08	463,366 47	
	Length and 1.8 mtr in Height)		KW	80 00			3,792.08	403,300 47	
	M.S. Gate (3.6 Mtr Wide) with Wicket		no	1.00			71,347.98	71,347 98	
	Gate (1.2 Mtr Wide)				<del> </del>			0.00	
	Total		+		<del> </del>		·····	3,786,161.89	
					T				
	Mechanical work		1						
	Inlet Coarse Bar Screens							0.00	
	Mechanical Step type Screens SS304 1 m wide 1 m depth with bar clear bar		no.	1			299,196 18	299,196.18	
	spacing 20 mm								
	Supply and installation of one set of complete Manuall cleaned coarse								
	screen in the inlet chamber having the		no	1			153,433 94	153,433.94	
	apperture size as 20mm. Screens shall								
	be installed at an inclination of 700  Belt Conveyor -500 mm width		no	1	<u> </u>	ļ	178,113,64	178,113.64	
	Screen Collection bin Trolley		no.	1			243,178.32	243,178.32	
	Pumping Plants and Its Accessories							0.00	
	Non-clog, single stage, bottom suction						200.000	1 104 170 05	
	submersible pump of Capacity =145 cum/hrs. and head 14 m, at Peak Flows		nos	3			398,060	1,194,179.25	
	Non-clog, single stage, bottom suction			_				255 252 51	
	submersible pump of Capacity =60 cum/hrs, and head 11 m, at non Peak		nos	2			383,035	766,069 61	
	Supplying, erecting, testing &					1			
	commissioning of Manually Operated Crane (single bridge girder carrying								
	two wheels, complete with chain		no.	1			243,178	243,178.32	
	pulley block, load chain of welded								
	construction of alloy steel as per IS:2429, hand chains for hoisting &								
	Providing, installation, testing and								
	commissioning of glycerin filled Pressure gauge of following ranges with								
	isolation valve and tap off pipe		no	6			1,022	6,132.69	
	complete in all respect as per technical								
	specification and as per direction of Tools and Tackles (As Per enclosed							0.00	
	a. Chain wrench		No.	2		1	7,500	15,000.00	
	b. Pipe wrench		No.	3		1	1,100	3,300.00	
	c. Screw wrench		No.	3	1		700	2,100.00	
	d. Ring spanners		No.	1		1	2,000	2,000.00	
	e. Double ended spanners		Set	1			1,000	1,000.00	
	f Insulation pliers		No	1			250	250 00	
	g. Hammer with handle		No.	2			400	800_00	
	h. Hexa blade frame		No	2		]	150	300.00	

				PC Portic	n (Yen)	LC Port	ion (INR)	احتمدنا
Items	Specification	Unit	Qly	Unit Price	Amount	Unit Price	Amount	Reference
 i Measuring tape of different size		Set	1			500	500.00	
i. Sprit level set comprising of		No.	1			1,000	1,000 00	
 - Filler gauge		No	1				0.00	
 - Steel scale		No	1				0.00	
 - Chisel (150, 200 mm)		No	ı				0.00	
- File (Plut, half round, round and		Car	ı				0.00	
 triangular)		Set						
 k. Maggor III' & LT		No.	1			15,000	15,000 00	
 1. Crimping Tools		No	1			30,000	30,000 00	
 m. Multimeter		No	1			3,000	3,000 00	
 n Power Drill		No	ı			5,000	5,000 00	
 Installation of all the equipments etc.		Job	- 1			150,000	150,000.00	
 Commissioning of pumping station		job	1			25,000	25,000,00	
Testing of pumping plants		job	I			25,000	25,000,00	
 Painting of all equipment and drives etc		dat	1			35,000	35,000,00	
							0,00	
Valves and Fittings							0.00	
Sluice valve							0,00	
Manually operated Sloice Valve(DI) with H/w, PN10 conforming IS 1538							0.00	
 150 nun dia		No	6 (10	1		26,323 07	157,938.41	
 200 mm dia		No	1 00			77,540.78	77,540,78	
 Non-Return valve		+					0.00	
 C.I D/F Swing type Non-Return Valves		<del>                                     </del>						
as per IS:5312, (Part-1 & 2)							0.00	
Single Multidoor type (with Lever & counterweight 400 mm & above) 700							0,00	
 mm & above Dual Plate Check Valves								
150 mm dia		No	6.00			6,566,66	39,399.93	
200 mm dia		No	1 00			41,398 48	41,398.48	
D.F.C.I. Pipes and D.F. C.I. Specials							0.00	
 Delivery piping shall commence from								
90° discharge duck foot bend of individual pump up to the start of rising								
main. This shall include column pipe.		Kg	20,197 00			60,00	1,211,820.00	
distance pieces, common header, bends								
 and tees etc. as per following details:-							0.00	
 Providing, installation, testing and		+		1			0.00	
commissioning of following Stain less								
steel AISI 304 Expansion bellows of 10				1				
bar rating with tie rods as per technical specifications and layout drawings							0.00	
including jointing material like nuts,								
bolts, rubber gaskets etc. complete in				1				
all respect as per technical specification and as per								
 150 mm dia.		No	6			24,525	147,150 18	
 Nuts & bolts of SS and rubber insertion								
/packing etc. @ 5% 0f the weight of CI piping and fittings		Kg	1,009.85			300,00	302,955_00	
 pryring and receings							0.00	
 Rising Main		-					0.00	
 Mechanical		+					0.00	
 Supply of DI K9 Pipe , 200 mm Dia.		RM	335			3,169	1,061,648.50	
 111		LS	333 I	-		106,165	106,164.85	
 Spacials @ 10% of Cost of pipe		rs	1			100,103	0.00	
 Total Mech. Cost								
 Civil  Excavation for pipe line in ordinary soil							0,00	
with lift upto 1.5 m and lead upto 50 m		cum	502.5			183.40	92,158.50	
 including refilling, watering and								
Laying Of pipe		RM	335			1,548	518,427.07	
							0,00	
Total							7,154,333.65	
Electrical work								
 DG Sets								

		3 114		PARIL I E	FC Portio	on (Yen)	LC Portion	on (INR)	
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	SITE of DG Ser complete with 1300								
	RPM Diesel Engine of suitable BHP &								
	AC Brush less SPDP Alternator mounted on a common base Frame &								
	coupled through a flexible coupling or				]				
	close coupled. Alternator shall be self								
	regulated with standard Alternator								
	Protection( Over voltage, over speed &								
	under voltage). Engine shall have								
	residential silencer, up to 10 M exhaust								
	piping, electronic / Mechanical					1			
	governor, Manual & electric Start		1 1						
	,Batteries, Fuel tank ( with Stand) &								
	piping, control panel (16 G) with MCCB (4P; 25 KA), Ammeter,								
	Voltmeter, Frequency Meter, Energy								
	Meter & Hour Meter, Engine							l l	
	instruments panel, AVM and with								
	Weatherproof, powder coated							İ	
	Accoustic enclosure for DG set for								
	sound attenuation fabricated from 2.0								
	mmCRCA sheet steel (structure) with								
	side wall fabricated from 2.0 mm					]			
	CRCA sheet & filled with 100mm thick glass wool(96Kg/m3) as per IS 8183								
	the doors of 100 mm thick and								
	fabricated from 1.6mm CRCA sheet								
	pooled with accounting material floor of								
	Air Cooled & Naturally Aspirated-						:	0.00	
	Along with AMF Panel		<del>  </del>			-			
	63 KVA at 0.8 pf 415V 50Hz 3-Ø		no.	1,0			946,050.00	946,050.00	
	SITC of AUTO MAINS FAILURE								
	(AMF) Panel fabricated from CRCA								
	sheet steel 2mmThick, Powder coated								
	finish, Engine START & STOP commands,control								
	RELAYS, selector switches for							0.00	
	Ammeter & Voltmeter, Ammeter &							0.00	
	Voltmeter, Control & Power								
	Contactors, Timers, Electronic Hooter		{						
	,Visual & Alarm indication for faults,								
	UPS, operator interface panel complete					ļ			
<u>.</u>	63 KVA at 0.8 pf 415V 50Hz 3-Ø		no.	1			150,000,00	150,000 00	
	Complete power wiring along with		7.0	1			20.000	20,000,00	
	cables & materials from D.G. set to the Incoming Panel of L.T. panel as per I.E.		LS	1			30,000	30,000.00	
	Complete earthing of the D.G. set,		+		+				
	including supply of all materials,		Job	1.00			16,000.00	16,000,00	
	construction of earth pits as per I.E.		111			-	,	, ,	
	Supply of12mm thick PVC rubber			6.00			1 220 52	7,383 20	
	matting of 1M × 1M size and with ISI		sqm	6.00			1,230.53	7,383 20	
	First filling of Mobile oil		Job	1.00			5,000.00	5,000 00	
	Installation of D G set complete with		+	1.00				25,000,00	
	construction of foundation etc		Job	1.00			25,000.00	25,000,00	
	Commissioning of the D G set		Job	1.00			15,000.00	15,000.00	
	including fuel for a max. period of 8		1 1						
	Testing of the D G. set		Job	1.00			15,000.00	15,000.00	
								0.00	
	Electro- Magnetic Flow meter		+ 1		-	<del> </del>		0.00	
			+			-		0.00	
	Direct on line Full Bore electro- magnetic Flow meter for sewage								
	application. The flow meter shall be								
	suitable for bi directional flow								
	measurement. This shall be having								
	protection category of the sensor shall								
	be IP68and protection category for the								
	transmitter shall be IP- 65. Accuracy		no.	1.00			598,159.50	598,159.50	
	shall be of +/- 5% of measured value								
	without being affected by variation in						1		
	the line pressure. Equipment should be						1		
	complete with converter, transmitting								
	device and should be fully programmable with digital flow								
	indicator & integrator etc. The sensor								
	managed of integration of the solison		_			1	<u> </u>	0,00	
			+			<del> </del>	<del> </del>		
	Internal and External Lighting				1			0.00	
			1			1	I	0.00	

	40.00			PC Partic	on (Yen)	1,CPortion	on (INR)	p
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
 Point Wiring in surface rigid P.V.C	**********							
conduit system with Plush type Accessories								
Point wiring including metallic switch								
box, sheet, switches, sockets, lump		1 1						
holders/ceiling roses etc with 1.5 Sq mm. PVC insulated cable PR with		1 1						
copper multi strand conductor ISI							0.00	
marked in Surface rigid P.V.C. conduit								
(MMS) ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper								
earth continuity conductor of green								
colour inside conduit including painting								
 etc. as required as per specification for		-		-				
 Light Point/Pan Points					ļ		0.00	
 Medium point (up to 6 mtr.)		nos	4 00			583.28	2,333.10	
 Long point (up to 10 mtr.)		nos	4 00			893-97	3,575.88	
3 Pin 6 Amp socket outlet on Separate							0.00	
 Medium point (up to 6 mtr.)		4	4 00	-		594.83	2,379.30	
 Circuit Wring -		nes	4 (10)			354.93	2,37730	
Wring for circuit wring with PVC							1	
insulated cable FR with copper multi-							1	
strand conductor ISI marked in Surface							0.00	
rigid P.V.C. conduit (MMS) of ISI marked suitable size including painting								
etc as required as per specification								
2x2 5 Sq mm		111	30 00			104 00	3,120.00	
METALLIC SWITCH BOXES -								
Supplying and fixing factory fabricated hot dip galvanised switch box for								
normal flush type accessories of								
minimum 1.2 mm (18 swg gauge)								
thickness with earth terminal stud with		nos	-1	}		232.16	928.62	
nut and washer, with 3 mm thick synthetic phenollic resin bonded								
laminated sheet conforming to grade PI					[ ]			
of IS 2036-1974 on surface / concealed				1				
including painting etc. as required as								
 per specification- MS Box 200 mm X Suppyling of ISI Marked Switch Fuse		+						
Unit (rewirable type ) triple								
pole with neutral link ,415 Volt having							0.00	
conduit / cable gland entry with two earthing terminals confirming								
to IS . 13947(Part I & III) -		{						
 63 Amp		nos	2.00			3,575,88	7,151.76	
 Supplying, fixing & testing of approved								
make of low watt surface mounting								
luminaires, made of white powder coated CRCA sheet steel housing with								
aluminium mirror reflector complete								
with control gear, wired upto terminal							0.00	
block on a detachable tray including								
fixing on wall/ Ceiling on wooden round block including wiring &								
connection as required and suitable for								
 2 no. 18 watt CFL		nos	4.00			1,677.06	6,708.24	
 Supplying, Fixing and Testing of								
Compact Flourescent Lamp (CFL) with							0.00	
inbuilt electronic ballast ISI marked of approved make as required as per								
 18 Watt		nos	8.00			235,62	1,884.96	
 Supplying, fixing and testing of		1	<del>-</del>				.,	
approved make bulk head luminaire							<b> </b>	
consisting of pressure die aluminium								
housing lamp holder, prismatic glass cover, rubber gasket and wire guard,		nos.	4	Ì		589	2,356.20	
delux type, including fixing on wall as		1103.	7			535	2,550.20	
required, with necessary material								
complete Fitting(sutiable for GLS w/o								
 lamp upto 11 watt Retorted CFL)  Supplying, erection and testing of		+		-			<del> </del>	·
approved make electric Ceiling fan of								
double ball bearing complete with								
standard down rod, canopy, hanging								
shackle, Aluminium blades, without regulator, A.C. 230-250 volts including		nos	2.00			1,983.14	3,966.27	
connections with all necessary material								
complete as required confirming toIS								
:374/1979 with upto date								
ammendments. Ceiling Fan (Energy		1		1	1 1			

	والمدال الما			FC Portic	on (Yen)	LC Porti	on (INR)	THE WAY
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
Supplying, erecting and testing of approved make Exhaust Fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/ Anchor hole fastners etc. complete finished and as required.		nos	2 00			2,971.82	5,943.63	
 300mm sweep 900 RPM External							0,00	
Porviding, erecting, testing and commissioning solar street light system on 80 mm heavy duty galvanised iron pipe 6 meter hight with 30cm x 30cm x 2mm base plate installed own cement concrete padestal casing complete with solar panel, solar battery with charger, other accessories with control panel in weather proof pole box, solar fitting LED type or CFL type 18 watt to 20 watt (set of 2 nos.)		nos	2.00			54,109 67	108,219 34	
				-	ļ		0,00	
 Switchgear with Cabling							0.00	
L.T. Control Switch Gear Panel Board SITC of walll/free standing floor mounted dust and vermin proof compartmentalised cubical panel made out of CRCA sheet, required hardware, duly painted by either two coats of zinc/red oxide primer followed by two coats of synthetic enamel paint for powder coating in grey or required shade after rising. The panel having PU/Neoprene rubber gasket of not less than 3 mm thickness, separate detachable, gland plate M.S. base channel, hinged door with locking arrangement for equipment/switchgear. Thickness of sheet shall not be less than 2.0mm Load bearing structure shall be of 2.0mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments having bolted type doors with detachable extension type structure (only outer area on all sides shall he measured). Supplying and fixing of electrolytic grade Aluminium bus bar by means of SMC / DMC type insulator, high tensile nuts and bolts spring washers in		Sq m	8,00			3,840 00	30,720.00	
existing panel including bending, cutting in required shape and size and colour coding with heat shrinkable PVC sleeves		kg	8			525	4,200.00	
 Incoming Panel SITC of quick make and quick break 4				+			0.00	
POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz, O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip, including making connections with lugs / spreaders etc. as required With Microprocessor based Release 160 Amp, 25/35 KA, adjustable O/L &		No.	1			26,700	26,700.00	
 adjustable S/C setting Supply and fixing of following						<u> </u>	+	
 accessories for MCCB					1		0.00	
 Shunt trip Release		No.	1		1	1,740	1,740,00	
 Under Voltage Release		No.	1.0			2,590.00	2,590.00	<del></del>
Earth Fault Module		No.	1	.1		1,650	1,650.00	

THE THE		Out of the second		000	PC Portio	n (Yen)	1.C Porti	on (INIt)	Reference
	ltem#	Specification	Umt	Qty	Unit Price	Amount	Unit Price	Amount	Kelerence
	SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking enpacity at 440/415 V, 50 Hz, O/L & S/C settings and conforming to IS 13947-2 //IIC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for IJVR, shunt trip, earth fault trip, push (test) to trip, including making connections with lugs / sprenders etc. as required With Microprocessor based Release up to 100 Amp., 16 kA, adjustable O/L & adjustable S/C setting		No	6.0G			19,950-00	119,700 au	
	Supply and fixing of following accessories for MCCB							0,00	
	Shunt trip Release		No	(,	-		1,740	10,440,00	
	Under Voltage Release		No	6 (10			2,590.00	15,540 00	
	Earth Pault Module	<del></del>	No	6.00	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		1,650 00	9,900 00	
	SITC of DOL with panel conforming to applicable standards, with Graphical Display with atleast display of 5 different parameters at a time and display of 2 parameters with Bargraph, digital and analogue I/O, relay outputs, adjustable Accel/ Decel times, motor protection, RS 485 serial link for connections to Modbus 11 KW		No	<b>5</b> (m)			17,250,00	86,250,00	
	Level transmitters ultrasonic type - 8		1						
	meters liquid Automatic start / stop device according to prefixed level in the pump with timer and audio-visual signal or circuit such as hooter arrangement for lowest and highest allowable level in the sump.		No No	e 1 no	:		110,490 00 5,000,00	30,000,00	
	Moisture sensing relay Sensing device to signal and trip the motor against of water into oil chamber.		No	6,00			5,000.00	30,000,00	
	Device for taking signal from the thermister in motor winding and tripping the circuit on reaching pre-set		No.	6.00			5,000.00	30,000.00	
	Single phasing preventor.		No.	6.00			2,500.00	15,000.00	
	Reverse rotation trip device for motor.  SITC of self healing MPP/MP type shunt capacitor (banks) conforming to IS:13340-41 / IEC:831-1&2 in existing panel or parallel with load terminals, the capacitor shall be fitted with discharge resistors, pressure sensitive disconnector (PSD) and shall have dissipation factor less than 0.0025 at 50 Hz and total wattage loss less than 0.5 Watt per KVAR, including making connections with suitable capacity conductors/cables testing as required.Heavy duty Three phase 440 V SITC of microprocessor based		No.	15.00			1,500	7,500.00	
	intelligent power factor correction relay having following sensing capacity secondary current, self analysing auto c/k setting according to targeted power factor setting, the relay shall have minimum three digit display unit for display of real power factor, targeted power factor, lag/lead capacitor switching status, alarm output for under current, over current, insufficient compensation, indication of switching on units, auto/manual status, and shall have over load protection, no volt release etc. as required 6 to 8 stage.		No.	1 00			27,000.00	27,000.00	
	SF of Current Transformer, with all necessary support in existing panel including connection etc. as required up to 150 / 5 Ratio , 5 VA , class 1 accuracy		No.	6			437	2,620.95	

	0 10	1	0.	FC Portio	on (Yen)	LC Porti	on (INR)	D.C
ltems	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
 SF of CT linked selector swatch of 10 A for Ampere meter (4 position ) including making connection etc. as		No	6			408.3	2,449 65	
required. SF of 240/220 V, LED (22,5 mm dia ) Pilot lamp with integral circuit, terminal block, including connection etc. as		Set	15			286	4,282,60	
 equired. Red/yellow/Green colour Auxiliary Outgoing panels. These shall be required for the following purposes				-			0.00	
 Flow meter, Level Indicator, Pressure Indicating Devices etc.							0 00	
For miscellaneous works such as welding, Dewatering pups etc.							0 00	
 Spare Panel SITC of quick make and quick break 4				-			0.00	
POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz, O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip, including making connections with lugs / spreaders etc. as required With Microprocessor based Release up to 100 Amp, 16 kA, adjustable O/L & adjustable S/C setting		No	60			19,950.00	119,700 00	
P/Laying XLPE insulated / P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor Armoured of IS:7098-I/1554-1 approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand, IInd class bricks covering, refilling compaction of earth, making necessary connection, testing etc. as required of		m	50			692	34,617.69	
P & Laying XLPE insulated IS:7098/II/85 of Group1 and approved make H.T cable for working voltage 11 K.V. Earthed direct in ground including excavation of 30cm x100cm size trench, 25cm layer of river sand, IInd class bricks covering, refilling earth, compaction of earth, making necessary connection testing etc. as required of		m	50			1,113	55,673.82	
Providing & making heat shrinkable type or/ outdoor/ straight through terminations/joint kit of Group1 and approved make suitable for XLPE insulated 11 KV cable, with required components, prepration of cable ends, testing etc. as required of		No.	2			12,073	24,146 00	
Supplying and making one end termination with heavy duty single compression brass gland SIBG type, aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of		Set	2			408	816.55	
Plate Earthing as per IS:3043 with copper Earth plate of size 600mm x 600mm x 3.0mm by embodying 3 to 4 mtr. below the ground level with 20 mm dia. G.I. 'B' class watering Pipe including all accessories like nut, bolts, reducer, nipple, wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size300mm x 300mm complete with alternate layers of salt and coke/charcoal, testing of earth resistance as required		Set	4			6,745,10	26,980.39	

Spanification	1 fests	Otto	PC Portion (Yen)		1,C Portion (INR)		D. C
Specification	Unit	Qıy	Unit Price	Amount	Unit Price	Amount	Reference
	871	100			t <sub>e</sub>	642.39	
	Lot	1			35,000	35,000,00	
10	sqm	4			1,230 53	4,306 87	
						2,844,344	
	101	Lot	Lot 1	n 100	Lot 1	m 100 6	m 100 6 642.39  Lot 1 35,000 35,000 00  aqm 4 1,230 53 4,300 87

## SEWAGE PUMPING STATION IPS-6

	NA PROPERTY IN			FC Portio	n (Yen)	LC Porti	on (INR)	
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
[Direct Cost]								
Civil work							10,994,939	·
Aechanical work		ļ					5,961,872,72	
Electrical work		ļ					2,850,146,98	
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Sub-Total		<del> </del>					19,806,958.47	
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	lients	Specification	Unit	Qty	PC Portio	n ( ) en)	LC Portio		Refer
		117.00111011111111		59	Unit Price	Amount	Unit Price	Amount	E TE
	SRWAGR PUMPING STATION IPS-6			4 1					
	Civil work  Excavation for depth as given below in ordinary soil (learn, clay and sand) for foundation including lift upto 1.5 M								
	and lead upto 50 M watering, filling and ramming the axenvated earth into the trenches or foundation and removal surplus earth upto distance of 50 M from the foundation trenches.								
UPIN_SOR_2014- 15_3001	0.0 + 1.50 M		m3	70.91			184 79	13,102.76	
UPJN_SOR_2014- 15_3002	1 59 - 3 00 M		mt	70.91			231 00	16,379.34	
	Sinking of 7 m external dia well true to vertical, through all types of soil and rock, as shown against each case, (other than pneumatic method of sinking) complete as per drawing and technical specifications including all material, labour, machinery, lighting, guarding and maintenance of diversion complete as per clause 1200 of MoRT&H							0,00	
RUDIP_SOR_2013_1	3 00 - 10 00 m		M	93	-		15,720,00	146,196,00	
3.11.1 RUDIP_SOR_2013_1	10 00-11 00 m		M	1.0			18,864	18,864.00	
3.11.2 RUDIP_SOR, 2013_T	11 00-12 00 m		M	10			22,637	22,636.80	
3 11 3 RUDIP_SOR_2013_1 3.11.4	12 00-13 00 m		M	1 0			27,164	27,164.16	
2.11.4								0.00	
	PCC work in 1:2:4 (M-15) cement coarse sand and 20 mm gauge approved stone ballast including supply of all materials, labour, T&P etc. required for proper completion of work.							0.00	
UPJN_SOR_2014- 15 1015	(I) Concrete plug at bottom		m3	39 77			8,557	340,348.66	
UPJN_SOR_2014- 15 1015	(II) Concrete curb at the bottom		m3	10.02			8,557	85,747.36	
								0_00	
UPJN_SOR_2014- 15_1017	PCC 1:4:8 in cement Coarse sand and 40mm stone ballast below concrete plugging		m3	12.07			6,364,00	76,832,88	
	Supply and laying R.C.C. 1:1½:3 in cement and coarse sand and 10-20 mm gauge stone ballast, including labour T&P etc. excluding supply of reinforcement and including fixing and binding required for proper completion of work and supply necessary centering							0.00	
UPJN_SOR_2014- 15 1025	0.00 -1.50 M 0.785x(D1^2-D2^)x1,50		m3	17.98			12,715.00	228,555.23	
UPJN_SOR_2014- 15_1025	1,50 -3,00 M		m3	17.98			13,096.45	235,411.88	
UPJN_SOR_2014- 15_1025	3,00 -4,50 M		m3	17.98			13,605.05	244,554.09	
UPJN_SOR_2014- 15_1025	4.50 -6.00 M		m3	17.98			14,240.80	255,981.85	
UPJN_SOR_2014- 15 1025	6.00 -7.50 M		m3	17.98			15,258.00	274,266.27	
UPJN_SOR_2014- 15 1025	7.50 -9.00 M		m3	17.98			16,529.50	297,121 80	
UPJN_SOR_2014- 15_1025	9.00-10 50 M		m3	17.98			18,055.30	324,548.42	
UPJN_SOR_2014- 15_1025	10 50-12 0 M		m3	11.98			19,962.55	239,221.14	
UPJN_SOR_2014- 15 1025	12,5-13.0 M		m3					0 00	
	Same as Item No. 5 but for the following:							0.00	
UPJN_SOR_2014- 15_1020	Floor for Pump House		m3	29.33			10,992.00	322,400.73	
UPJN_SOR_2014- 15_1020	Roof Slab		m3	29,33			10,992 00	322,400.73	
UPJN_SOR_2014- 15_1020	Ring Beam		m3	19.32			10,992.00	212,331.12	

1	Items	Specification	Unit	Qty	FC Portio		LC Portion		Referen
		- Francisco		(5)	Unit Price	Amount	Unit Price	Amount	
UPJN_SOR_2014- 15 1020	Beams at floor		m3	33,00			10,992 00	362,736.00	
UPJN_SOR_2014-	Lintal Door 2 nos.		m3	2.00			10,992.00	21,984.00	
15_1020 UPJN_SOR_2014-	Lintal windows 4 nos.		m3	6.00			10,992.00	65,952,00	
15 1020 UPJN SOR 2014-			+ +						
15 1020	Ventilators 2 nos.		m3	1 50			10,992.00	16,488,00	
UPJN_SOR_2014- 15_1020	Sunshade							0.00	
UPJN_SOR_2014- 15_1019	(a) Door		m3	0 09			10,992.00	989_28	
UPJN_SOR_2014-	(b) Windows		m3	0.29			10,992.00	3,187.68	
15_1019 UPJN_SOR_2014-	Gantry Beam	······································	m3	9 65			10,992.00	106,072.80	
15_1019 UPJN_SOR_2014-			+ +						
15 1019	Stairs		m3	7.8	-		10,992.00	85,957.44	
	S		+		-			0.00	
UPJN_SOR_2014-	Same as item No. 5 but in 1. 11/2:3 for  Raft		m3	24			12,715.00	303,246,70	
15_1023	(ii) Well Curb						12,113,00		
	3.14x9.3x0.5x0.30x1.00		m3		ļ			0.00	
UPJN_SOR_2014-	0,785x9,30x9,30x0,30		m3					0.00	
15_109_1			m3					0,00	
	Screen Platform Pumping and bailing out of sub-soil		m3	4.24	<del> </del>		12,715.00	53,898.89	
	water including supply of all labour,		L.S.	1			60,000.00	60,000.00	
	T&P fuel etc. during construction							0.00	
	First Class brick work in 1 6 cement								
UPJN_SOR_2014- 15 1027+1035	and local sand mortor in superstructure including supply of all material, labour,		m3	53,81			5,453.00	293,409.79	
_	T&P etc. for proper completion of							0.00	
	Mild steel of iron work in plain work							0.00	
	such as in R.C.C. and R.B. work (when not including in overall rates) wrought								
	required shape as necessary including							0,00	
	bending for completion of work and including supply of steel wastage of the								
UPJN_SOR_2014- 15 1150	Raft @2%		Qti.	11			9,511.00	108,229 09	
UPJN_SOR_2014-	Beam (including ring and gantry beam)		Qtl	38.86			8,912.00	346,279.78	
15_1149 UPJN SOR 2014-	@2%		Qtl.	17.52			8,912	156,148,93	
15_1149 UPJN SOR 2014-	Slab and Roof Slab @1%								
15 1149	Lintals and Sunshades @1%		Qtl.	23,55	-		8,912.00	209,877.60	
UPJN_SOR_2014- 15 1149	Staircase @1%		Qtl	6.14			8,912,00	54,708.09	
UPJN_SOR_2014- 15 1151	Stening Wall @2%		Qtl.	324 54			9,511.00	3,086,728.76	
UPJN_SOR_2014-	Cutting Edge @60kg/m		Ton	13 49			9,511_00	128,298 06	
15_1150		<del></del>	+		+	<del>                                     </del>		0.00	
								0 00	
	Providing and fixing steel glazed doors, windows and ventilaotr of standard								
	rolled steel section joint welded with								
	15% 3 mm tuge, 10 mm long with steel tuges embeded in cement concrete							-	
	blocks 15x10x10 cm of 1:3:6 or with		M2	25.40			2,805 00	71,247.00	
	fixing slips or with bolts and nuts as required including providing and fixing		1712	2J,4U			2,000 00	71,247.00	
	glass panes with glaging chip sand spuds metal such putty of approved								
	made complete cost of approved steel								
	primer excluding the cost of metal beading and other fitting except								
	616							0 00	
	Supply of oxidised from fitting for doors and windows		M2	23,00			430 00	9,890 00	
		· · · · · · · · · · · · · · · · · · ·						0.00	
	Supply and fix iron grill including all labour T&P etc as per design and								
	direction of Engineer Incharge		M2	22			4,500 00	99,000.00	
	complete in all respoect of work.								ļ

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	ACIII.	Specification	Citi	40	Unit Price	Amount	Unit Price	Amount	
UPJN_SOR_2014- 15_1235	Painting new iron work in small areas or over new wood work with one coat of primary and two coats of approved enamel including supply of all material, labour TAN are control for more.		N12	398			101.60	40,391 08	
	labour, T&P etc required for proper				-			0,00	
UPJN_SOR_2614- 15_1187_1	12 mm thick cement plaster with 1 6 cement and local sand morter including supply of all materials labour T&P etc required for proper completion of work.		M2	236			181 00	46,376 54	
	Comment with the transport of		-					0,00	
UPJN_SOR_2014- 15_1253	Snowcem painting two coats of required shade including supply of all material and labour, T&P etc. required for proper completion of work on outside the pump house sunshade etc.		MI	333			18 24	6,078.39	
UPIN_SOR_2013- 14_1219	Granolythic marble 25 mm thick consisting of 20 mm thick layer of cement approved course sand and 12 mm thick surface cont with ordinary black or grey of mixed marbles chips 8 mm in approved of 1.2 and polished by hand or by machine and finally limished with french mension polish or any other approved polish excluding base concrete and including supply of all materials, labour, T&P etc. required for		812	40			1,089 00	0,00 43,825.17	
								0.00	
	Supply and fix 25 mm G.1. Pipe railing on angle iron post including supply of all materials, labour, T&P required for proper completion of work.							0.00	
	Angel iron 50 mm x 50 mm x 6 mm		M	197			336.00	66,114.72	
	G 1 Pipe 20 mm dia in three tows		М	285			190,00	54,172.80	
								0,00	
	Supply and fix chequered plates including cost of all materials, labour.		M2	41			2,100.00	86,625,00	
	including cost of all infections, meaning		1					0,00	
	25 mm thick in 1:2:4 plain cement concrerte floor with cement approved C.S. and 3/6 graded approved stone laid in pannel finished with 3 nm floating coat of neat cement or cement and marble dust in ratio of 1:5 specified overlap including 75 mm thick base concrete of brick ballast 40 mm with local sand and cement in ratio of 8:4:1 and removing any overlaping materials at the joints of panels if and giving there including supply of all material,		М	32			572	18,405,51	
	Other Building Works Based in area							0.00	
	rate		-						
CPWD_1 1.1 (B)	a) Operation Room		sqm	9	-		21,760	195,840.00	
CPWD _1 1.1 (B)	b) HT Room c) Transformer Yard and Generator		sqm	9	+		21,760	195,840.00	
CPWD_1.1.1 (B)	Room		sqm	16			21,760	348,160.00	
			+		-			0.00	
	Site clearance and other unforeseen		+					0.00	
	items.							0,00	
								0,00	
	Other works		LS	1			10,000 00	10,000.00	
			+ +		-			0,00	
Unit Estimate attached	Construction of boundary Wall in Brick Masonary - (230 mm thick, 1 mtr in Length and 1.8 mtr in Height)		Rm	80			5,792.08	463,366.47	
Unit Estimate attached	M.S. Gate (3.6 Mtr Wide) with Wicket Gate (1.2 Mtr Wide)		No	1			71,348	71,347.98	
			+-+		+			10,994,938 77	
	Mechanical work				+			0.00	
	Inlet Coarse Bar Screens		+					0.00	
ļ			+		+			0.00	

		Items	Con G	Unit	Ote	FC Portio	on (Yen)	LC Portio	on (INR)	Reference
		items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
		Mechanical Step type Screens SS304 1 m wide 1 m depth with bar clear bar spacing 20 mm		no	Ī			299,196.18	299,196.18	
		Supply and installation of one set of complete Manuall cleaned coarse screen in the inlet chamber having the		no	1	=		153,433.94	153,433.94	
		apperture size as 20mm. Screens shall be installed at an inclination of 700			-			,	,	
		Belt Conveyor -500 mm width		no	1			178,114	178,113.64	
		Screen Collection bin Trolley		no	1			243,178 32	243,178 32	
									0.00	
		Pumping Plants and Its Accessories  Non-clog, single stage, bottom suction submersible pump of Capacity =125 cum/hrs. and head 13m. at Peak Flows		nos	3			456,924.58	0.00 1,370,773 74	
		Non-clog, single stage, bottom suction submersible pump of Capacity =50 cum/hrs. and head 13m, at non Peak Flows		nos	2			169,231.33	338,462 65	·
		Supplying, erecting, testing & commissioning of Manually Operated Crane (single bridge girder carrying two wheels, complete with chain pulley block, load chain of welded construction of alloy steel as per IS:2429, hand chains for hoisting & traverse mechanism		no_	1			239,031 41	239,031,41	
		Providing, installation, testing and commissioning of glycerin filled Pressure gauge of following ranges with isolation valve and tap off pipe complete in all respect as per technical specification and as per direction of Engineer	1	no	6			1,022.11	6,132.69	
		Tools and Tackles (As Per enclosed list)							0.00	
		a. Chain wrench		No	2			7,500.00	15,000.00	
		b. Pipe wrench		No.	3			1,100.00	3,300.00	
		c. Screw wrench		No	3		ļ	700.00	2,100.00	
		d. Ring spanners		No.	1			2,000.00	2,000.00	
		e. Double ended spanners		Set	1		1	1,000.00 250.00	1,000.00 250.00	
		f. Insulation pliers		No.	2			400.00	800.00	
-		g Hammer with handle h Hexa blade frame		No	2			150	300.00	
		i Measuring tape of different size		Set	1	<del></del>	<del> </del>	500.00	500.00	
		j Sprit level set comprising of		No.	1			1,000	1,000 00	
-		- Filler gauge		No.	1		<u> </u>	-,	0 00	
-		- Steel scale		No.	1				0.00	
		- Chisel (150, 200 mm)		No.	1				0,00	
		- File (Flat, half round, round and	<del></del>	Set	1				0.00	
		triangular)		-				15,000,00		
		k Maggor HT & LT		No	1			15,000,00	15,000.00	
		l. Crimping Tools		No	1		-	30,000	30,000.00	
		m. Multimeter		No.	1		-	3,000	3,000.00	
		n. Power Drill		No	1		-	5,000	5,000.00	
		Installation of all the equipments etc		job	1			150,000	150,000.00	
_		Commissioning of pumping station.		job	1		<del> </del>	25,000	25,000.00	
		Testing of pumping plants		job	1	<del></del>	1	25,000	25,000.00	
		Painting of all equipment and drives		job	1			35,000	35,000.00	
				+-		+	1		0,00	
	<del></del>	Valves and Fittings							0.00	
		Sluice valve							0 00	
		Manually operated Sluice Valve(DI)							0 00	
-		with H/w, PN10 conforming IS 1538 150 mm dia.		No	6			39,487	236,922.07	
$\neg$		200 mm dia	·	No	1.00			19,985 47	19,985.47	
$\rightarrow$		Non-Return valve	-	1			1		0.00	

		Name Charles	Wine.	As I	PG Portio	n (Yen)	LC Porti	on (INR)	Reference
	ligins	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	C.1 D/P Swing type Non-Return Valves as per 18:5312, (Part+1 & 2)								
	Single/Multidoor type (with Lever & counterweight 400 mm & above) 700 mm & above Dual Plate Check Valves			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s				0.00	
	as per API-594, PN-1 0								
	150 mm dia		No	6.00	<u> </u>		2,630,94	15,785 67	
	200 mm dia.		No	1,00			19,985 47	19,985 47	
 	D.F.C.I. Pipes and D.F. C.1 Specials		-					0.00	
	Delivery piping shall commence from 90° discharge duck foot bend of individual pump up to the start of rising								
	main. This shall include column pipe, distance pieces, common header, bends and tees etc. as per following details:-		kg	30,317.00			60 00	1,819,020,00	
								0.00	
	Providing, installation, testing and commissioning of following Stain less steel AISI 304 Expansion bellows of 10 but rating with the rods as per technical specifications and Inyout drawings							00,00	
	including jointing material like nots, bolts, judder gaskets etc. complete in all respect as per technical specification and as per direction of Engineer								
	150 mm dia		No	(1			6,567	39,399,93	
	Nuts & bolts of SS and rubber insertion packing etc. @ 5% Of the weight of (1) piping and fittings		Kg	1,515.85			300 00	454,755.00	
								0.00	
	Rising Main							0.00	
	Mechanical							0.00	
	Supply of DI K9 Pipe 200mm Dia		RM	40 00			3,169.10	126,764.00	
	Spacials @ 10% of Cost of pipe		LS	1.00			12,676,40	12,676.40	
	Total Mech. Cost							0.00	
	Civil							0.00	
	Excavation for pipe line in ordinary soil with lift upto 1.5 m and lead upto 50 m including refilling, watering and ramming of excavated earth in trenches after laying pipe line, removal and disposal of surplus material upto a distance of 50 m.		eum	66,00			183.40	12,104.40	
	Laying Of pipe		RM	40,00			1,547.54	61,901.74	
	Total							5,961,872.72	
									,
	DG Sets							0,00	
	RPM Diesel Engine of suitable BHP & AC Brush less SPDP Alternator mounted on a common base Frame & coupled through a flexible coupling or close coupled. Alternator shall be self regulated with standard Alternator Protection( Over voltage, over speed & under voltage). Engine shall have residential silencer, up to 10 M exhaust								
	piping , electronic / Mechanical governor, Manual & electric Start , Batteries, Fuel tank ( with Stand) & piping , control panel (16 G) with MCCB (4P; 25 KA), Ammeter, Voltmeter, Frequency Meter, Energy Meter & Hour Meter, Enginstruments panel, AVM and with Weatherproof, powder coated Accoustic enclosure for DG set for							0.00	
	sound attenuation fabricated from 2.0 mmCRCA sheet steel (structure) with side wall fabricated from 2.0 mm CRCA sheet & filled with 100mm thick glass wool(96Kg/m3) as per IS 8183 the doors of 100 mm thick and fabricated from 1 form CRCA sheet								
	Air Cooled & Naturally Aspirated-							0.00	
 	63 KVA at 0,8 pf 415V 50Hz 3-Ø		no	1.00			946,050.00	946,050.00	

	A PARTY LIP TO THE REST OF THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP TO THE PARTY LIP	C	Unit	Otto	FC Portion (Yen)	LC Porti	on (INR)	Reference
	Items	Specification	Unit	Qty	Unit Price Amoun	Unit Price	Amount	Kelelence
	 SITC of AUTO MAINS FAILURE (AMF) Panel fabricated from CRCA sheet steel 2mmThick, Powder coated finish, Engine START & STOP							
	commands, control RELAYS, selector switches for Ammeter & Voltmeter, Ammeter & Voltmeter , Control & Power Contactors, Timers, Electronic Hooter , Visual & Alarm indication for faults, UPS, operator interface panel complete in all respect suitable for following capacity DG sets:						0.00	
	 63 KVA at 0.8 pf 415V 50Hz 3-Ø		no.	1.00		150,000.00	150,000 00	
	Complete earthing of the D G set, including supply of all materials, construction of earth pits as per I.E rules		Job	1		8,351	8,351.07	
	Supply of12mm thick PVC rubber matting of 1M × 1M size and with ISI marking.		sqm	6.00		1,406.32	8,437.95	
	First filling of Mobile oil		Job	1.00		5,000.00	5,000 00	
Ī	Installation of D.G set complete with construction of foundation etc		Job	1.00		35,000.00	35,000.00	
	Commissioning of the D G set including fuel for a max. period of 8 hours.		Job	1.00		15,000 00	15,000.00	
	Testing of the D.G. set.		Job	1.00		15,000.00	15,000.00	
							0.00	
	Electro- Magnetic Flow meter						0.00	
	application. The flow meter shall be suitable for bi directional flow measurement. This shall be having protection category of the sensor shall be IP68and protection category for the transmitter shall be IP-65. Accuracy shall be of +/-5% of measured value without being affected by variation in the line pressure. Equipment should be complete with converter, transmitting device and should be fully programmable with digital flow indicator & integrator etc. The sensor housing and junction box should be of SS 316.		no.	1,00		470,961 00	470,961.00	
-	 Internal and External Lighting		-			-	0.00	
-	 Internal					<del>                                     </del>	0 00	
	Point Wiring in surface rigid P.V.C. conduit system with Flush type Accessories. Point wiring including metallic switch box, sheet, switches, sockets, lamp holders/ceiling roses etc with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P.V.C. conduit (MMS) ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit including painting etc. as required as per specification for :-						0.00	
	Light Point/Fan Points						0.00	
	Medium point (up to 6 mtr.)		nos	3		583.00	1,749 00	
	 Long point (up to 10 mtr)		nos	3		894	2,682 00	
	3 Pin 6 Amp socket outlet on Separate Board						0.00	
	 Medium point (up to 6 mtr.)		nos	3		595.00	1,785.00	
	 Circuit Wiring - Wiring for circuit wiring with PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P V C. conduit (MMS) of ISI marked suitable size including painting etc. as required as per specification						0.00	

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	Henw	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	2x2,5 Sq.mm.		Πħ	30			104	3,121.80	
	METALLIC SWITCH BOXES - Supplying and fixing factory fabricated hot dip galvanised switch box for normal flush type accessories of minimum 1,2 mm (18 swg gauge) thickness with earth terminal atud with nut and washer, with 2 mm thick synthetic phenollic reain bonded laminated sheet conforming to grade PI of 18 2036-1974 on surface/concealed including painting etc. as required as per specification. MS Box 200 mm X 150 mm X 60 mm Deep		no.	3			243.21	729,63	
	Suppyling of ISI Marked Switch Fuse Unit (rewirable type) triple pole with neutral link ,415 Volt having conduit / cable gland entry with two earthing terminals confirming to IS: 13947(Part J.& III) -							0.00	
	63Amp		nos	2			3,746 16	7,492,32	
	Supplying, fixing & testing of approved make of low wait surface mounting luminaires, made of white powder coated CRCA sheet steel housing with aluminium mirror reflector complete with control gear, wired upto terminal block on a detachable tray including fixing on wall? Ceiling on wooden round block including wiring & connection as required and suitable for CFL as following:- (without lamp)							0.00	
 	2 no 18 watt CFL		nos	-1	<del> </del>		1,756.92	7,027.68	
	Supplying Fixing and Testing of Compact Flourescent Lamp (CFL) with inbuilt electronic ballast ISI marked of approved make as required as per specification							0.00	
	18 Watt		nos.	4			246.84	987.36	
	Supplying, fixing and testing of approved make bulk head luminaire consisting of pressure die aluminium housing lamp holder, prismatic glass cover, rubber gasket and wire guard, delux type, including fixing on wall as required, with necessary material complete Fitting(sutiable for GLS w/o lamp upto 11 watt Retorted CFL)		nos.	2			617.10	1,234,20	
	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete as required confirming toIS: 374/1979 with upto date ammendments. Ceiling Fan (Energy Saver 50 W)-1200 mm Sweep		nos	2			2,078	4,155.14	
	Supplying, erecting and testing of approved make Exhaust Fan heavy duty with mounting frame, blades AC 230-250 complete connection and including,		nos.	2			3,113 <sub>,</sub> 33	6,226 66	
	frame bolt/ Anchor hole fastners etc. complete finished and as required. 300mm sweep 900 RPM								

The same of the					FC Portio	n (Yen)	LC Porti	ion (INR)	
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Porviding, erecting, testing and commissioning solar street light system on 80 mm heavy duty galvanised iron pipe 6 meter hight with 30cm x 30cm x 2mm base plate installed own cement concrete padestal casing complete with solar panel, solar battery with charger, other accessories with control panel in weather proof pole box, solar fitting LED type or CFL type 18 watt to 20 watt (set of 2 nos)		nos	2			37,147	74,294.00	
	20 (1411 (2010) 21 21102)	-			<del> </del>			0.00	
	Switchgear with Cabling				<u> </u>			0 00	
	L.T. Control Switch Gear Panel Board.							0 00	
	mounted dust and vermin proof compartmentalised cubical panel made out of CRCA sheet, required hardware, duly painted by either two coats of zinc/red oxide primer followed by two coats of synthetic enamel paint for powder coating in grey or required shade after rising. The panel having PU/Neoprene rubber gasket of not less than 3mm thickness, separate detachable, gland plate M.S. base channel, hinged door with locking arrangement for equipment/switchgear. Thickness of sheet shall not be less than 2.0mm. Load bearing structure shall be of 2.0mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments having bolted type doors with detachable extension type structure (only outer area on all sides shall be measured). Dimensions - 2250(W)X2200(H)X600(D)		Sq m	12			3,840	44,160 00	
	Supplying and fixing of electrolytic grade Aluminium bus bar by means of SMC / DMC type insulator, high tensile nuts and bolts spring washers in existing panel including bending, cutting in required shape and size and colour coding with heat shrinkable PVC sleeves		kg	10.0			525.00	5,250 00	
	Incoming Panel		+					0.00	
	SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip, including making connections with lugs / spreaders etc. as required With Microprocessor based Release. 100 Amp, 25/35 kA, adjustable O/L & adjustable S/C setting		No.	3.0			26,700.00	80,100.00	
	Supply and fixing of following							0,00	
 	Shunt trip Release		No.	3	+	-	1,740	5,220 00	
	Under Voltage Release		No.	3	1		2,590	7,770.00	
	Earth Fault Module		No.	3			1,650	4,950.00	,
	Outgoing Panels							0.00	

		ltens	e	Unit	AV.	PC Portio	n (Yen)	LC Porti	on (INR)	Reference
12		1163114	Specification	4/mit	Qty	Unit Price	Amount	Unit Price	Amount	Kelerence
		SITC of quick make and quick break 4 POLB current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz, 074. & S/C actings and conforming to IS 13947-2 / IBC 60947-2 withfront face and centralised adjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip, includingmaking connections with lugs / spreaders etc. as required With Microprocessor based Release up to 100 Amp, 16 kA, adjustable O/L& adjustable S/C setting		No	6			19,950	159 <sub>1</sub> 6au 00	
		Supply and fixing of following accessories for MCCB							0,00	
		Shunt top Release		Ne	8			1,740 00	13,920 00	
		Under Voltage Release		No	8			2,590,00	20,720,00	
		Earth Fault Module		No	8			1,650	13,200,00	
		SITC of DOLAWith panel conforming to applicable standards, with Graphical Display with atleast display of 5 different parameters at a time and display of 2 parameters with Burgraph, digital and analogue FO, relay outputs, adjustable Accel/ Decelumes, motor protection, RS 485 serial link for connections to Modbus 3.7 KW.		No	6			17,250	103,500.00	
		Level transmitters ultrasonic type - 8 meters liquid		No	1.0			110,490,00	110,490.00	9 70
		Automatic start   stop device according to prefixed level in the pump with timer and audio-visual signal or circuit such as hooter arrangement for lowest and highest allowable level in the sump		No	- 6,00			5,000,00	30,000.00	
		Moisture sensing relay. Sensing device to signal and trip the motor against of water into oil chamber.		No.	b			5,000	30,000,00	
		Device for taking signal from the thermister in motor winding and tripping the circuit on reaching pre-set temperature.		No	6.00			5,000.00	30,000.00	
	Tir Table	Single phasing preventor,		No.	6.0			2,500.00	15,000.00	
		Reverse rotation trip device for motor		No	6			1,500	9,000 00	
		SITC of self healing MPP/MP type shunt capacitor (banks) conforming to IS:13340-41 / IEC:831-1&2: in existing panel or parallel with load terminals, the capacitor shall be fitted with discharge resistors, pressure sensitive disconnector (PSD) and shall have dissipation factor less than 0.0025 at 50 Hz and total wattage loss less than 0.5 Watt per KVAR including making connections with suitable capacity conductors/cables testing as required. Heavy duty Three phase 440 V, 50 Hz capacitor (Bank)		KVA r	15.0			1,168.50	17,527.50	
		SITC of microprocessor based intelligent power factor correction relay having following sensing capacity secondary current, self analysing auto c/k setting according to targeted power factor setting, the relay shall have minimum three digit display unit for display of real power factor, targeted power factor, lag/lead capacitor switching status, alarm output for under current, over current, insufficient compensation, indication of switching on units, auto/manual status, and shall have over load protection, no volt release etc. as required. 6 to 8 stage, sensitivity more than 50 milli Amp		No	. 10			30,864.10	30,864 10	

	Name and the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last			1	FC Portio	n (Yen)	LC Porti	on (INR)	
	ltems	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	SF of Current Transformer, with all necessary support in existing panel including connection etc as required up to 150 / 5 Ratio, 5 VA, class 1 accuracy		No	5			541	2,704 16	
	SF of CT linked selector switch of 10 A for Ampere meter (4 position ) including making connection etc. as required		No.	5			505	2,527.41	
	SF of 240/220 V, LED (22.5 mm dia ) Pilot lamp with integral circuit, terminal block, including connection etc. as equired. Red/ yellow / Green colour		Set	15			299	4,486.53	
	Auxiliary Outgoing panels. These shall be required for the following purposes							0.00	
	Flow meter, Level Indicator, Pressure Indicating Devices etc.							0 00	
	For miscellaneous works such as welding, Dewatering pups etc.							0.00	
	Spare Panel							0,00	
	SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings and conforming to IS 13947-2 / IBC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip, including making connections with lugs / spreaders etc. as required With Microprocessor based Release. up to 100 Amp, 16 kA, adjustable O/L & adjustable S/C setting		No.	5			23,418	117,091.76	
	sheathed cable of 1.1 KV grade with aluminium conductor Armoured of IS;7098-IV1554-1 approved make in ground as per IS:1255 including excavation of 30cmx/5cm size trench, 25 cm thick under layer of sand, IIInd class bricks covering, refilling compaction of earth, making necessary connection, testing etc. as required of		m	30			857	25,710.00	
	P & Laying XLPE insulated IS:7098/IJ/85 of Group1 and approved make H.T. cable for working voltage 11 K.V. Earthed direct in ground including excavation of 30cm x100cm size trench, 25cm layer of river sand, IInd class bricks covering, refilling earth, compaction of earth, making necessary connection testing etc as required of size.3 core 50.0 Sq.mm		m	30			2,068	62,040.00	
	Providing & making heat shrinkable type or/ outdoor/ straight through terminations/joint kit of Group1 and approved make suitable for XLPE insulated 11 KV cable, with required components, prepration of cable ends, testing etc. as required of following sizes 50 sqmm.		No	2			12,073	24,146.00	
	Supplying and making one end termination with heavy duty single compression brass gland SIBG type, aluminum lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size95sqmm		Set	26			505	13,130.00	

				PC Portio	n (Yen)	I,C Porti	on (INK)	
ligins	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
Plate Barthing as per 18:3043 with copper Barth plate of size 600mm x 600mm x 3 0mm by embodying 3 to 4 mit below the ground level with 20 mm dia G 1 Te class watering Pipe including all accessories like nut, bolts, reducer, nipple, wire meshed funnel, and C C finished chamber covered with hinged type with looking arrangement C I. Cover, C I. Prame of size300mm x 300mm complete with alternate layers of salt and coke/charcoal, testing of earth resistance as required.		Set	ŭ			H,351	\$0;106.44	
S & Laying following size earth wire/strip in horizontal or vertical run in ground/surface/recess including riveting, soldering, saddles, making connection etc. as required. 10 SWG G.1. Wire.		133	50			8	397.67	
Power and Control embles for connecting motors of various drives		Let	1			40,000	40,000.00	
Rubber matting of 12 mm thickness and LST marked and suitable for 0.415 KV		sqm	ĸ			1,406	11,250.60	
		-					2,850,147	

## SEWAGE PUMPING STATION

			W	FC Portio	n (Yen)	LC Porti	on (INR)	
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
[Direct Cost]								
Civil work							11,186,157	
Mechanical work							8,631,602.11	
Electrical work							3,391,412.98	
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Sub-Total					0		23,209,171.92	
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Cold work   Decimal property   Cold work   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decimal property   Decima		110119	specification	-t/m	Qiy.	Unit Price	Amount	Unit Price	Amount	Keterence
Exercision up to following depths		SEWAGE PUMPING STATION IPS-7		-67-Ys						
Indicate Col. Color Spiring server files,   Indicate Color Color Spiring server files,   Indicate Color Color Spiring server files,   Indicate Color Color Spiring server files and recomming the server server files and recomming the server server files and recomming the server server files and recomming the server server files and recomming the server server files and recomming the server server files and recomming the server server files and recomming the server server files and recomming server server files and server server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server files and server										
Select distributed and material usy to a		below G.L. for laying sewer line, manholes in ordinary soil (earth, sand, loam & clay) including cutting of joints prits ramming dressing, leveling, refilling of trenches in 20cm layer watering and ramming the same								
UNN SUR_2014										
UNIN SOR_2014    100-150 M   100   100   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110				mi3	51 66			184.79	9,546 25	· · · · · · · · · · · · · · · · · · ·
DODS   2014   19   19   19   19   19   19   19		1.50. 2.0014			12.55			221.00	10.730.00	
15 3003		1 30 = 3 90 M	<del></del>	ma	(40)			2,31,378	10.720.98	
15 3064	15_3003	3.00 - 4.50 M		-m3	41			291	11,953 72	
UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005 UNIN SOR, 2014 15 3005		4 50 - 6 00 M		in3	36,14			140.09	12,289,15	
15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles   15 Miles	UPJN SOR_2014-	6 DO M = 7.5 M		p.3	46			443.48	20 395 65	
15 300.0   75 N1 - 97 N1   10   10   10   10   10   10   10				-	-10					
Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   N		7.5 M = 9.6 M		-m3	(1			583	3,672.90	
UPIN SOR 2014-									0,00	
UFIN SDR_2014-		fine sand and 40mm brick ballast in foundation including supply of all labour, T&P in wet condition		m3	O			8,274	52,128,85	
Walls-Langer		V <sub>2</sub> 3 in raft foundation side wall							0.00	
1,50 - 3, 00 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,50 M   1,		Raft/slab		m³	21.00			12,715	267,015,00	
1.50 - 3.60 M		Walls-Longer							0,00	
3,00 - 4,50 M		0.00 - 1 50 M		1113	15 75			12.715	200,261,25	
4,50 - 6,00 M		1.50 - 3 00 M		m3	15 75			13,097.27	206,282.00	
Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Sect		3.00 - 4 50 M		m3	15.75			13,605,91	214,293,08	
7.5 M - 9.0 M m3 23.00 110,530,54 380,119,77 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0				m3						
Walls-Shorter										
Walls-Shorter		7.5 M - 9 0 M		m³	23,00			16,530,54		
0.00 - 1.50 M		Wolle Charter		-						
1.50 - 3.00 M				m²	4.50			12 715 00		
3,00 - 4,50 M	-			_						
4.50 - 6.00 M										
7.5 M - 9.0 M				_						
Reinforcement of R.C.C. work including, Straightening, cutting, binding in position complete and mild   Registering, Straightening, cutting, binding in position complete and mild   Registering, Straightening, cutting, binding in position complete and mild   Registering, Straightening, cutting of position complete and mild   Registering, Straightening, cutting of surplus earth or other dismantled material up to a   Reinforcement of R.C.C. work including tends of R.C.C. work including tends of R.C.C. work including tends of R.C.C. work including tends of R.C.C. work including tends and mild   Registering, Straightening, cutting of Straightening, and resulting of Straightening, refilling of tenches in 20cm layer watering and ramming dressing, leveling, refilling of tenches in 20cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering   Registering	· · · · · · · · · · · · · · · · · · ·	6.00 M - 7.5 M		m3	4.50			15,258.96	68,665.32	
Reinforcement of R.C.C. work including, Straightening, cutting, binding in position complete and mild   @2% of RCC qty   Qtl   119 17   9,511.00   1,133,471.29		7.5 M - 9.0 M		m3	6.57			16,530.54	108,605.65	
including, Straightening, cutting, binding in position complete and mild  @2% of RCC qty  Qtl 119 17  9,511.00  1,133,471.29  UPIN_SOR_2014 -15 1253  Supply of all materials and painting snow-cem paint inside and outside.  Walls-Longer  Walls-Longer  Walls-Shorter  m2 92.12  18.24  1,680.27  Walls-Shorter  m2 52.64  18.24  960.15  WET WELL  Executation up to following depths below G.L. for laying sewer line, manholes in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling, refilling of trenches in 20cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a  UPIN SOR_2014- 15 3001  UPIN SOR_2014- 15 3002  UPIN SOR_2014- 15 3002  UPIN SOR_2014- 15 3002									0,00	
@2% of RCC qty		including, Straightening, cutting,		kg	11,917_48				0,00	
UPIN SOR 2014   Supply of all materials and painting   now-cem paint inside and outside.   m2   92.12   18.24   1,680.27		@2% of RCC qty		Qtl	119 17			9,511.00	1,133,471.29	
1253									0.00	
Walls-Longer									0.00	
WET WELL  Excavation up to following depths below G.L for laying sewer line, manholes in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling, refilling of trenches in 20cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a  UPJN SOR_2014-15_3001  UPJN SOR_2014-15_3002  UPJN SOR_2014-15_3002  UPJN SOR_2014-15_3002	-13_1233			m2	92.12			18,24	1,680.27	
WET WELL  Excavation up to following depths below G.L. for laying sewer line, manholes in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling, refilling of trenches in 20cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a  UPJN SOR_2014-15_3001  UPJN SOR_2014-15_3002  UPJN SOR_2014-15_3002  UPJN SOR_2014-15_3002		Walls- Shorter		m2	52.64			18.24	960.15	
Excavation up to following depths below G.L. for laying sewer line, manholes in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling, refilling of trenches in 20cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a  UPIN SOR_2014- 15_3001  UPIN SOR_2014- 15_3002  150 - 3.00 M  m3 78.77  m3 184.79  15,810.63									0.00	
below G.L. for laying sewer line, manholes in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling, refilling of trenches in 20cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a   UPIN SOR_2014-   15_3001									0.00	
UPJN SOR_2014- 15_3001		below G.L. for laying sewer line, manholes in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling, refilling of trenches in 20cm layer watering and ramming the same including removal of surplus earth or		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s					0,00	
15_3001 UPJN SOR_2014- 15_3002 1.50 - 3.00 M m3 78.77 231.98 18,271.90				- m2	85.56			194.70	15 910 62	
15 3002	15_3001							184,79	· · · · · · · · · · · · · · · · · · ·	
	15_3002 UPJN SOR_2014-	1.50 - 3.00 M 3.00 - 4.50 M		m3	78 77			231.98	18,271.90 21,041.34	
15 3003		7.50 114		1117	12:24			471/4/	21,071.34	

	Items	Specification	Unit	Qty	FC Portio	n (1en)	LC PORI	on (INR)	Reference
	nems	Specification	Unit	Qiy	Unit Price	Amount	Unit Price	Amount	Kererenc
UPJN SOR_2014- 15 3005	6.00 M - 7.5 M		m3	88			443_48	38,848.85	
UPJN SOR_2014-	7.5 M - 9.0 M		m3	12			583.00	6,996.00	
15 3006	7.5 M - 9.0 M		1113				383,00		
	Surely and lay DCC 1/4/8 in compart							0.00	
UPJN SOR_2014-	Supply and lay PCC 1:4:8 in cement, fine sand and 40mm brick ballast in			10			8,274.42	99,293.04	
15_1017	foundation including supply of all		m3	12			8,274.42	99,293.04	
	labour, T&P in wet condition.							0.00	
	Reinforced cement concrete work 1 1		+						
UPJN SOR_2014- 15_1025	1/2:3 in raft foundation side wall							0.00	
	excluding cost of centering and Raft/slab		m3	40 00			12,715.00	508,600.00	
-	Walls-Longer			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,	0.00	
	0.00 - 1.50 M		m3	18.00			12,715 00	228,870.00	
	1.50 - 3.00 M		m3	18 00			13,097 27	235,750 86	
	3,00 - 4,50 M		m3	18_00			13,605.91	244,906_38	
	4.50 - 6.00 M		m3	18.00			14,241.70	256,350.60	<del> </del>
	6.00 M - 7.5 M	<del>,,, , , , , , , , , , , , , , , , , , </del>	m3	18			15,258.96	274,661.28	
	7.5 M - 9.0 M		m3	26.28			16,530,54	434,422.59	
								0,00	
	Walls- Shorter							0.00	
	0.00 - 1.50 M		m3	7_50			12,715.00	95,362.50	
	1.50 - 3.00 M		m3	7.50			13,097.27	98,229.53	
	3.00 - 4.50 M		m3	7.50			13,605.91	102,044.33	
	4.50 - 6.00 M		m3	7.50			14,241.70	106,812.75	
	6.00 M - 7 5 M		m3	7.50			15,258.96	114,442,20	
	7,5 M - 9 0 M		m3	10.95			16,530.54	181,009.41	
	Reinforcement of R.C.C. work		<u> </u>		ļ	-		0.00	
	including, Straightening, cutting,		kg	16,071.31				0.00	
	binding in position complete and mild				ļ				
	@2% of RCC qty		Qtl	161	ļ		9,511.00	1,528,541,82	
					ļ <u>.</u>			0.00	
LIPIN SOR 2014	Supply of all materials and painting		-		-				
-15_1253	snow-cem paint inside and outside							0.00	
	Walls-Longer		m2	92		ļ	18 24	1,680.27	
	Walls- Shorter		m2	53	ļ		18,24	960.15	
					<b></b>	ļ		0.00	
DSR_2013_4.3.2	Centering and shuttering including struting propping etc. and removal of				1			0,00	
	Screen Chamber							0.00	
	Walls-Longer (Inside/outside)		m2	407		-	367.40	149,524.45	
	Walls-Short		m2	174	ļ		367.40	64,081 91	
	Roof/slab		m2	84	-		367,40	30,861.60	
	Wet Well			ACE			367.40 367.40	0.00	
	Walls-Longer (Inside/outside)		m2 m2	465 291	-	-	367.40	170,885.09	
	Walis-Short Roof/slab		m2	160			367,40	58,784.00	
	TCOL/SIGO		1112	100	1		301/40	33,704.00	
			1					0.00	
	Pump House		+			<del> </del>		0.00	
UPJN SOR_2014-	Brick work in 1.6 in pump house		m3	38	<del> </del>	<del> </del>	5,819	218,212.50	
15 1031	Drick work in 1:0 in purity nouse		11172	30			3,017		
	Reinforced cement concrete work 1 1		-					0,00	
UPJN SOR_2014-	1/2.3 in raft foundation side wall							0.00	
15_1025	excluding cost of centering and						10.515	(25.75.55	····
	Floor for Pump House/ Roof		m3	50	-	-	12,715	635,750.00	
	Reinforcement of R.C.C. work					-		0.00	
	including, Straightening, cutting,		kg	3,925				0 00	
	binding in position complete and mild		<u> </u>						
	@2% of RCC qty		Qtl	39		-	9,511	373,306.75	
			+-			-		0.00	
					J	1		0.00	

1 - T - MA	Items	Specification	Unit	On	PC Portio	n (Yen)	LC Portio	in (INIC)	Reference
	Rema	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Ketetence
	12mm thick plaster in 1:6 in pump							00.0	
15 1190+1191	house.			160			151	22,699,50	
	Inner & Outer		m2	150			131	0.00	<del></del>
	Supply and fixing of ISMB 250 @				-			0.70	
	Kg/M 37 30 and M S grill, door								
	including one cost of redoxide and two		Kg	300			50 G	27,180 00	
	conts of black Japan paint including								
-	fabrication, supply and fixing of							0.00	
	Other Building Works Based in area	Other Building Works							
	rute	Based in stea rate						0.00	
		Operation Room	m2	9			21,760	195,840,00	
		b) HT Room	m2	9			21,760	195,840 00	
		c) Transformer Yard and	m2	16			21,760	348,160 00	
CPWD 1.1.1 (B)		Generator Room			-			0.00	
CI WD_1.3.1 (D)					-			0,00	
	Site elemance and other unforeseen	Site clearance and other							
	items	unforescen items	LS				10,000	10,000 00	
								00,0	
								0,00	
		Construction of							
	Construction of boundary Wall in Brick Masonary (230 mm thick I mtr in	houndary Wall in Brick Missonary - (230 mm	RM	80			5.792	463,366.47	
	Length and 1.8 mit in Height)	thick I mit in Length	30.00	(,,,			,/	405,300,47	
		and 1.8 mtr in Height)							
	M S Gate (3 6 Mtr Wide) with Wicket	M.S. Gate (3.6 Mtr Wide) with Wicket Gate	tio	1			71,348	71,347.98	
	Gate (1.2 Mti Wide)	(1.2 Mtr Wide)							
			-61						
								11,186,156.83	
	Mechanical work								
	Mechanical Step type Screens SS304 1							202 101 10	
	m wide 1 m depth with bar clear bar spacing 20 mm		no	1			299,196	299,196.18	
	Supply and installation of one set of								
	complete Manuall cleaned coarse		j				150 400 04	153,433.94	
	screen in the inlet chamber having the apperture size as 20mm, Screens shall		no	1			153,433.94	153,433.94	
	be installed at an inclination of 700								
	Belt Conveyor -500 mm width		no	1			178,113.64	178,113.64	
	Screen Collection bin Trolley		no	1			243,178.32	243,178.32	
								0.00	
	Pumping Plants and Its Accessories							0.00	
	PUMPING PLANTS							0.00	
	Non-clog, single stage, bottom suction								
	submersible pump of Capacity =280cum/hrs and head 13 m. at Peak		nos.	3			1,244,243.85	3,732,731.54	
	Flows		İ						
	Non-clog, single stage, bottom suction						(67.00:	1 214 (52 5)	
	submersible pump of Capacity =150 cum/hrs, and head 13 m, at non Peak		nos	2			657,336	1,314,672.74	
	cum/hrs. and head 13 m at non Peak Supplying, erecting, testing &				<b> </b>				
	commissioning of Manually Operated Crane (single bridge girder carrying				İ				
	two wheels, complete with chain			,			184 074 79	104.064.70	
	pulley block, load chain of welded		no.	1			184,964.78	184,964.78	
	construction of alloy steel as per IS:2429, hand chains for hoisting &								
	traverse mechanism								71.5
	Providing, installation, testing and commissioning of glycerin filled								
	Pressure gauge of following ranges with						1.740.1-	2.50	
	isolation valve and tap off pipe		no	3			1,168.13	3,504.39	
	complete in all respect as per technical								
	specification and as per direction of Tools and Tackles (As Per enclosed		+	<del></del>	<b>†</b>			0,00	
	list) a. Chain wrench		No	1	-		7,500.00	7,500.00	
<del> </del>			_	1					
<del> </del>	b. Pipe wrench		No				1,100.00	1,100,00	
	c. Screw wrench		No.	1			700.00	700.00	
	d. Ring spanners		No.	1	ļ	ļ	2,000.00	2,000.00	
<del> </del>	e. Double ended spanners		Set	1			1,000,00	1,000.00	
	f. Insulation pliers		No.	1			250.00	250.00	
+			No	1	1		400.00	400.00	

					FC Portic	on (Yen)	LC Portio	on (INR)	
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	h. Hexa blade frame		No.	1		Sec. 2011	150.00	150 00	
	i Measuring tape of different size		Set	i			500 00	500.00	
-	j. Sprit level set comprising of		No.	1		<del>                                     </del>	1,000,00	1,000 00	
			No.	1	-	1	1,000,00	0.00	
	- Filler gauge		No	1				0.00	
	- Steel scale					-		0.00	
	- Chisel (150, 200 mm) - File (Flat, half round, round and		No.	1		-		0.00	
	friancular)		Set	1	<del> </del>		15,000.00	15,000.00	
	k. Maggor HT & LT		No.				·		
	1. Crimping Tools		No	1			30,000	30,000.00	
	m. Multimeter		No.	1	-		3,000.0	3,000.00	
	n_Power Drill		No	1			5,000.00	5,000 00	<del> </del>
	Installation of all the equipments etc.		Jop	1			150,000.00	150,000 00	
	Commissioning of pumping station		job	1			25,000	25,000.00	
	Testing of pumping plants		job	1			25,000.00	25,000.00	·-···
	Painting of all equipment and drives		job	1			35,000	35,000.00 0.00	
	Tr. 1 Pining					<del> </del>		0.00	
	Valves and Fittings							0.00	
	Sluice valve  Manually operated Sluice Valve(DI)				<u> </u>				
	with H/w, PN10 conforming IS 1538							0.00	
	200 mm dia	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	No	5			92,310	461,552.27	
	300 mm dia.		No	1			209,484	209,483.79	
	Non-Return valve							0,00	
	C.I.D/F Swing type Non-Return Valves								
	as per IS 5312, (Part-1 & 2) Single/Multidoor type (with Lever &			ı				0,00	
	counterweight 400 mm & above) 700		-						
	mm & above Dual Plate Check Valves 200 mm dia		No	5		<del> </del>	49,284	246,419 53	······································
	300 mm dia		No	1	<del> </del>	1	118,961,15	118,961.15	
	D.F.C.I. Pipes and D.F. C.I. Specials		1.0			<del> </del>		0.00	
	Delivery piping shall commence from								
	90° discharge duck foot bend of individual pump up to the start of rising								
	main. This shall include column pipe,		kg	12,325 00			60.00	739,500 00	
	distance pieces, common header, bends								
	and tees etc. as per following details -	1 11 122			<del></del>			0.00	
	Providing, installation, testing and		-			+		0.00	
	commissioning of following Stain less								
	steel AISI 304 Expansion bellows of 10		-						
	bar rating with tie rods as per technical specifications and layout drawings							0,00	
	including jointing material like nuts,								
	bolts, rubber gaskets etc. complete in								
	all respect as per technical specification and as per								
	200 mm dia.		No	5.00			3,169.10	15,845.50	
	Nuts & bolts of SS and rubber insertion		0.00			1			
	/packing etc @ 5% 0f the weight of CI		Kg	616.25			300 00	184,875.00	
	piping and fittings								
						ļ		0 00	
	Rising Main				ļ	-		0.00	
	Mechanical				ļ	1		0.00	
	Supply of DI K9 Pipe 300 mm Dia.		RM	40.00		1	4,269.10	170,764.00	
	Spacials @ 10% of Cost of pipe		LS				17,076	0.00	
	Total Mech Cost							0.00	
	Civil							0.00	
	Excavation for pipe line in ordinary soil								
	with lift upto 1.5 m and lead upto 50 m including refilling, watering and		1-25	7,200,000			1222102		
	ramming of excavated earth in trenches		cum	54.00			183.40	9,903.60	
	after laying pipe line, removal and								
	disposal of surplus material upto a		D1/	40.00	-	<del> </del>	1,547.54	61,901.74	
	Laying Of pipe		RM	40 00	<del> </del>	-	1,347.34		
	Total Mech. Cost			-		-		8,631,602.11	
	1				+			0.00	
	Blectrical work				1		<u> </u>	0.00	
	DG Sets		1					0.00	

		Consultant.	1111		PG Portio	n (Yen)	I.C.Portio	n (INK)	0
	ltoms	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	RPM Diesel Engine of suitable BHP &			-					
	AC Brush less SPDP Alternator							1	
	mounted on a common base Frame &								
	coupled through a flexible coupling or								
	close coupled Alternator shall be self				1				
	regulated with standard Alternator								
	Protection(Over voltage, over speed &		1					1	
1	under voltage). Engine shall have residential silencer, up to 10 M exhaust								
	piping , electronic / Mechanical						1	1	
	governor, Manual & electric Start							1	
	,Batteries, Fuel tank ( with Stand) &						1	1	
	piping, control panel (16 G) with							0,00	
	MCCB (4P, 25 KA), Ammeter, Voltmeter, Frequency Meter, Energy								
1	Meter & Flour Meter, Engine								
	instruments panel, AVM and with								
	Weatherproof, powder conted		1 1						
	Accoustic enclosure for DG set for						1		
	sound attenuation fabricated from 2.0							1	
	minCRCA sheet steel (structure) with side wall fubricated from 2.0 mm								
	CRCA sheet & filled with 100mm thick		1						
	glass wool(96Kg/m3) as per IS 8183								
	the doors of 100 mm thick and								
	fabricated from L6mm CRCA sheet								
	An Cooled & Naturally Aspirated-							0,00	
	125 KVA at 0 8 pf 415V 50Hz 3-O STIC of AUTO MAINS FAILURE		no	1	-		1,317,600,00	1,317,600.00	
	(AMF) Panel fabricated from CRCA								
	sheet steel 2mmThick Powder coated								
	finish , Engine START & STOP								
	commands.control		1						
	RELAYS, selector switches for							0.00	
	Amnieter & Voltmeter, Amnieter & Voltmeter , Control & Power								
	Contactors, Timers, Electronic Hooter								
	Visual & Alarm indication for faults,								
	UPS, operator interface panel complete								
	125 KVA at 0.8 pf 415V 50Hz 3-O		no.	1			225,000.00	225,000.00	
	Complete earthing of the D.G. set, including supply of all materials.		Job	1			8,351.07	8,351.07	
	construction of earth pits as per I.E.		300	,		į	051.07	0,551.07	
	Supply of 12mm thick PVC tubber		sqm	6			1,406.32	8,437.95	
	matting of 1M × 1M size and with ISI				<del></del>				
	First filling of Mobile oil		Job	1			5,000.00	5,000.00	
	Installation of D.G. set complete with construction of foundation etc.		Joh	1			35,000.00	35,000.00	
	Commissioning of the D.G. set		1,1	1			16,000,00	15.000.00	
	including fuel for a max. period of 8		Job	1			15,000.00	15,000.00	
	Testing of the D.G. set.		Job	ł			15,000	15,000.00	
						1		0.00	
	Electro- Magnetic Flow meter		1 1		1			0.00	
	Direct on line Full Bore electro-								
	magnetic Flow meter for sewage								
	application. The flow meter shall be								
	suitable for bi directional flow								
	measurement. This shall be having protection category of the sensor shall								
	be IP68and protection category for the								
	transmitter shall be IP- 65 Accuracy		no.	1			616,566.00	616,566.00	
	shall be of +/- 5% of measured value						,		
	without being affected by variation in								
	the line pressure Equipment should be								
	complete with converter, transmitting device and should be fully								
	programmable with digital flow								
	indicator & integrator etc. The sensor								
								0.00	
	Internal and External Lighting							0.00	
	Internal							0.00	
	Point Wiring in surface rigid P.V.C.							0,00	-
	Light Point/Fan Points		++		<b>+</b>			0.00	
	Light Point/Fan Points.		+-+		+				
	Medium point (up to 6 mtr.)		nos.	3			583	1,749.00	
	Long point (up to 10 mtr.)		nos.	3			894.00	2,682.00	
	3 Pin 6 Amp socket outlet on Separate							0.00	
	Board Medium point (up to 6 mtr.)		+	2	+		505	1 705 00	
	Madium point (up to 6 mts)		nos.	3	-	i	595	1,785.00	

T					FC Portio	n (Yen)	LC Portion	on (INR)	
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Circuit Wining -			344					
	Wiring for circuit wiring with PVC								
	insulated cable FR with copper multi strand conductor ISI marked in Surface							0.00	
	rigid P.V.C. conduit (MMS) of ISI								
	marked suitable size including painting		1 1						
	 etc. as required as per specification						101.00		
	 2x2.5 Sq.mm		m	30	ļ		104 06	3,121.80	
	METALLIC SWITCH BOXES - Supplying and fixing factory fabricated								
	hot dip galvanised switch box for								
	normal flush type accessories of								
	minimum 1.2 mm (18 swg gauge) thickness with earth terminal stud with								
	nut and washer, with 3 mm thick		nos.	3			243	729,63	
	synthetic phenollic resin bonded								
	laminated sheet conforming to grade PI of IS:2036-1974 on surface / concealed		1 1						
	including painting etc. as required as								
	per specification- MS Box 200 mm X								
	Suppyling of ISI Marked Switch Fuse Unit (rewirable type ) triple pole with		1 1						
	neutral link ,415 Volt having conduit /							0.00	
	cable gland entry with two earthing		1 1						
	 terminals confirming to IS   13947(Part						2.746.16	7.400.70	
	63Amp Supplying, fixing & testing of approved		nos,	2	-		3,746 16	7,492.32	·
	make of low watt surface mounting								
	luminaires, made of white powder								
	coated CRCA sheet steel housing with aluminium mirror reflector complete								
	with control gear, wired upto terminal							0.00	
	block on a detachable tray including					1			
	fixing on wall/ Ceiling on wooden round block including wiring &					]			
	connection as required and suitable for								
	2 no 18 watt CFL		nos	4			1,757	7,027.68	
	Supplying, Fixing and Testing of								
	Compact Flourescent Lamp (CFL) with inbuilt electronic ballast ISI marked of							0 00	
	approved make as required as per								
	18 Watt		nos	4			246 84	987.36	
	Supplying, fixing and testing of								
	approved make bulk head luminaire consisting of pressure die aluminium								
	housing lamp holder, prismatic glass		nos	2			617.10	1,234.20	
	cover, rubber gasket and wire guard,		1103	2			017.10	1,254.20	
	delux type, including fixing on wall as required, with necessary material							1	
	complete Fitting(sutiable for GLS w/o								
	Supplying, erection and testing of								
	approved make electric Ceiling fan of double ball bearing complete with								
	standard down rod, canopy, hanging								
	shackle, Aluminium blades, without		nos.	2			2,077.57	4,155,14	
	regulator, A.C. 230-250 volts including						2007-21117-0		
	connections with all necessary material complete as required confirming toIS								
	:374/1979 with upto date								
	 ammendments. Ceiling Fan (Energy Supplying, erecting and testing of		-		-				
	approved make Exhaust Fan heavy duty								
	with mounting frame, blades AC 230-		-2.						
	250 complete connection and including,		nos.	2			3,113.33	6,226.66	
	frame bolt/ Anchor hole fastners etc complete finished and as required								
	300mm sweep 900 RPM				<u> </u>				
	External		1					0.00	
	Porviding, erecting, testing and								
	on 80 mm heavy duty galvanised iron								
	pipe 6 meter hight with 30cm x 30cm x								
	2mm base plate installed own cement		nos.	2			37,147.00	74,294.00	
	concrete padestal casing complete with solar panel, solar battery with		0.000				WW. 10 (1972)		
	charger, other accessories with control								
	panel in weather proof pole box, solar								
	 fitting LED type or CFL type 18 watt to		+-			-		0.00	
	 0.11							0.00	
	Switchgear with cabling								

	na fi		4 12	S. (1)		PC Portio	n (Yen)	I.C Porti	on (INR)	n.c
	===	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
		STTC of wall/free standing floor mounted dust and vermin proof compartmentalised cubical panel made out of CRCA sheet, required hardware, duly painted by either two coats of zino/red oxide primer followed by two coats of synthetic enamel paint for powder coating in grey or required shade after rising. The panel having PU/Neoprene rubber gasket of not less than 3 mm thickness, separate detachable, gland plate M.S. base channel, linged door with locking arrangement for equipment/switchgear Thickness of sheet shall not be less than 2 0mm. Load bearing structure shall be of 2 0mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments having belted type doors with detachable.		Sq nı	11.50			3,840.00	44,160.0n	
		extension type structure (only outer Supplying and fixing of electrolytic grade Aluminium bus bar by means of SMC / DMC type insulator, high tensile must and bolts spring washers in existing panel including bending , cutting in required shape and size and colour coding with heat shrinkable PVC		kµ	iē			509	5,090.18	
		Incoming Panel  STIC of quick make and quick break 4 POLE current limiting MCCB having following current taing, short current breaking capacity at 440 415 V, 50 Hz, OA & SC settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR , shunt trip, earth fault trip, push ( test ) to trip , including making connections with lugs / spreaders etc. as required With Microprocessor based Release 100 Amp. 25/35 kA, adjustable OA. & adjustable S/C setting		No	3			19,950	59,850.00	
-		Supply and fixing of following		++					0,00	
		accessories for MCCB		-				1.740		
		Shunt trip Release		No.	.3	-		1,740	5,220.00	
		Under Voltage Release		No	3.0	1		2,590.00	7,770 00	
		Earth Fault Module		No	3.0			1,650,00	4,950.00 0.00	
		Outgoing Panels  SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz, O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip, includingmaking connections with lugs / spreaders etc. as required With Microprocessor based Release. up to 100 Amp, 16 kA, adjustable O/L & adjustable S/C setting		No	6			19,950	119,700.00	
		Supply and fixing of following							0.00	
		Shunt trip Release		No.	5			1,740	8,700.00	
				+ +	5	1		2,590	12,950.00	
		Under Voltage Release		No.						
		Under Voltage Release Earth Fault Module		No.	5			1,650.00	8,250.00	
		Under Voltage Release		+				1,650.00 24,900	8,250.00 124,500.00	

			CF	11-11	04	FC Portio	on (Yen)	LC Portion	on (INR)	D. Far
	F1	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
		Automatic start / stop device according to prefixed level in the pump with timer and audio-visual signal or circuit such as hooter arrangement for lowest and highest allowable level in the sump.		No.	6			5,000,00	30,000.00	
		Moisture sensing relay. Sensing device to signal and trip the motor against of		No.	6			5,000 00	30,000.00	
		water into oil chamber.  Device for taking signal from the thermister in motor winding and		No.	6			5,000	30,000.00	
		tripping the circuit on reaching pre-set Single phasing preventor.		No.	6	-		2,500	15,000.00	
		Reverse rotation trip device for motor.		No.	6,0			1,500.00	9,000.00	
		SITC of self healing MPP/MP type shunt capacitor (banks) conforming to IS:13340-41 / IEC:831-1&2 in existing panel or parallel with load terminals, the capacitor shall be fitted with discharge resistors, pressure sensitive disconnector (PSD) and shall have dissipation factor less than 0.0025 at 50 Hz and total wattage loss less than 0.5 Watt per KVAR including making connections with suitable capacity		KVA r	30.00			1,168,50	35,055.00	
		conductors/cables testing as required. Heavy duty Three phase 440 V STTC of microprocessor based intelligent power factor correction relay having following sensing capacity secondary current, self analysing auto c/k setting according to targeted power factor setting, the relay shall have minimum three digit display unit for display of real power factor, targeted power factor, lag/lead capacitor switching status, alarm output for under current, over current, insufficient compensation, indication of switching on units, auto/manual status, and shall have over load protection, no volt release etc as required. 6 to 8 stage		No	1			31,399	31,399.07	
		SF of Current Transformer, with all necessary support in existing panel including connection etc, as required up to 150 / 5 Ratio, 5 VA, class I		No.	5.00			540 83	2,704.16	
		SF of CT linked selector switch of 10 A for Ampere meter (4 position ) including making connection etc. as		No	5.0			505.48	2,527.41	
		First and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat		Set	15			299	4,486.53	
		Auxiliary Outgoing panels. These shall be required for the following purposes							0.00	
,		Flow meter, Level Indicator, Pressure Indicating Devices etc.							0,00	
		For miscellaneous works such as					<u> </u>		0.00	
		welding, Dewatering pups etc.  Spare Panel							0.00	
		Spare Panel  SITC of quick make and quick break 4  POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz;  O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip, including making connections with lugs / spreaders etc. as required With Microprocessor based Release. up to 100 Amp, 16 kA, adjustable O/L & adjustable S/C setting		No.	5			19,950	99,750 00	
		P/Laying XLPE insulated / P V C sheathed cable of 1.1 KV grade with aluminum conductor Armoured of IS:7098-I/1554-1 approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand, IInd class bricks covering, refilling compaction of earth, making necessary connection, testing etc as required of		m	30			857	25,716.00	

1						PC Portic	n (Yen)	1,C Portio	on (INR)	
		Items	Specification	Unit	Qty-	Unit Price	Amount	Unit Price	Amount	Reference
		P. & Laying XLPB insulated 1S/7098/II/85 of Group1 and approved make H.T.cable for working voltage H. K.V. Barthed direct in ground including excavation of 30cm x100cm size trench, 25cm layer of river sand, IInd class bricks covering, refilling earth, compaction of earth, making necessary		m	30			2,104	63,111 84	
		connection testing etc as required of Providing & making beat shrinkable type or/outdoor/straight through terminations/joint kit of Group! and approved make suitable for XLPE insulated 11 KV cable, with required components, prepration of cable ends, testing etc. as required of		No.	2 00			12,072.9	24,145,71	
		Supplying and making one end termination with heavy duty single compression briss gland SIBG type, altuminium lugs duty erimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE altuminium conductor cable of 1190 volt.		Set	26			505	13.142.56	
		Plate Harthing as per IS 3043 with copper Harth plate of size 600mm x 500mm x 500mm x 3 0mm by embodying 3 to 4 mit below the ground level with 20 mm dia GT B' class watering Pipe including all accessories like nut, bolts reducer, nipple, wire meshed funnel and C C finished chamber covered with hinged type with locking arrangement CL Cover, CL Frame of size300mm x 300mm complete with alternate layers of salt and		Set	6			8,351	50,106,44	
		S & Laying following size earth wire strip in horizontal or vertical run in ground surface/recess including riveting, soldering, saddles, making connection etc. as required, 10 SWG		m	<u>5</u> 0			8	397.67	
		Power and Control cables for connecting motors of various drives		Lot	1			45,000	45,000,00	
		Rubber matting of 12 mm thickness and		sqm	8			1,406	11,250_60	
		I.S.I. marked and suitable for 0,415		-					3,391,413	
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## SEWAGE PUMPING STATION

	0.00	11	0:	FC Portio	n (Yen)	LC Portion	on (INR)	D-C
Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
D: C d								
[Direct Cost]							10,811,088	
Civil work				ļ				
Mechanical work		ļ		-			8,763,047.60	
Electrical work		<b>_</b>					3,153,533,19	
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Sub-Total					0		22,727,668.60	
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	liems	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	SEWAGE PUMPING STATION IPS-7		1276	1	411411				
	Civil work								
	Excavation for depth as given below in ordinary soil (loam, clay and sand) for foundation including lift upto 1.5 M and lead upto 50 M watering, filling and ramming the excavated earth into the trenches or foundation and ramoval surplus earth upto distance of 50 M from the foundation trenches								
UPJN_SOR_2014	0.6 - 1 50 N		m3	71 13			184,79	13,143.32	
-15_3001 UPJN_SOR_2014	1 50 - 3 00 M		m3	71.13			231 00	16,430.03	
-15_3002	1 30 = 3 00 M		- 111.5	/1 13	-		- 11 (N)	0.00	
	Sinking of 7 m external dia well true to vertical, through all types of soil and tock, as shown against each case, tother than pneumatic method of sinking) complete as per drawing and technical specifications including all material, labour, machinery, lighting, guarding and maintenance of diversion complete as per clause 1200 of MoRT&H specification in clayey soil.							0,00	
RUDIP_SOR_201	3 00 - 10 00 m		M				15,720 00	0.00	
3_13.11.1 RUDIP_SOR_201	10 00-11 00 m							-	
3_13.11.2 RUDIP_SOR_201			N1				18 864	0,00	
3_13.11.3	11,00-12 00 m		M				22,637	0.00	
RUDIP_SOR_201 3_13.11.4	12 00-13 00 m		M				27_164	0,00	
			-					0.00	
	PCC work in 1:2.4 (M-15) cement course sand and 20 mm gauge approved stone ballast including supply of all materials, labour, T&P etc. required for proper completion of work.							0.00	
UPJN_SOR_2014 -15 1015	(I) Concrete plug at bottom.		m3	41.00			8,557	350,852.52	
UPJN_SOR_2014 -15_1015	(H) Concrete curb at the bottom		m³	10,23			8,557	87,542.82	
-13_1013								0.00	
UPJN_SOR_2014 -15_1017	PCC 1 4/8 in cement, Coarse sand and 40mm stone ballast below concrete plugging		m3	12,11			6,364.00	77,090.64	
								0.00	
	Supply and laying R. C.C. 1.11½3 in cement and coarse sand and 10-20 mm gauge stone ballast. including labour T&P etc. excluding supply of reinforcement and including fixing and binding required for proper completion of work and supply necessary centering and shuttering in string wall.							0,00	
UPJN_SOR_2014 -15 1025	0.00 -1.50 M 0.785x(D1^2-D2^)x1,50		m3	18_18			12,715.00	231,130.16	
UPJN_SOR_2014 -15 1025	1.50 -3.00 M		m3	18_18			13,096.45	238,064.06	
UPJN_SOR_2014	3.00 -4.50 M		m3	18.18			13,605.05	247,309.27	
-15_1025 UPJN_SOR_2014	4.50 -6.00 M		m3	18.18			14,240.80	258,865.78	
-15_1025 UPJN_SOR_2014			+					-	<del> </del>
-15 1025	6.00 -7,50 M		m3	18.18			15,258.00	277,356.19	
-15_1025	7.50 -9 00 M		m3	18.18			16,529.50	300,469.20	
UPJN_SOR_2014 - -15_1025	9.00-10 50 M		m3	18.18			18,055.30	328,204.82	
UPJN_SOR_2014 -15 1025	10.50-12 0 M		m3	12.12			19,962.55	241,916.23	
UPJN_SOR_2014	12.5-13.0 M		m3					0.00	
-15_1025			+ +					0.00	
	Same as Item No. 5 but for the following:							0.00	
UPJN_SOR_2014 -15 1020	Floor for Pump House		m3	29.39			10,992.00	323,094.44	
UPJN_SOR_2014 -15 1020	Roof Slab		m3	29.39			10,992.00	323,094.44	
-15_1020 UPJN_SOR_2014	Ring Beam		m3	19.38			10,992.00	213,043.44	

Land House	Itapat	Specification	Unit	Otv	FC Portio	n (1en)	LC Porti	on (INK)	Reference
Matrix (1)	Items	specification	Unit	Qty <sup>-</sup>	Unit Price	Amount	Unit Price	Amount	Reference
UPJN_SOR_2014 -15 1020	Beams at floor	·	m3	33 00			10,992.00	362,736,00	
UPJN_SOR_2014	Lintal Door 2 nos.		m3	2,00			10,992.00	21,984.00	· · · · · · · · · · · · · · · · · · ·
-15_1020 UPJN_SOR_2014	Lintal windows 4 nos.		m3	6.00			10,992 00	65,952.00	
-15_1020 UPJN_SOR_2014			+ +						
-15_1020	Ventilators 2 nos.		m3	1,50			10,992,00	16,488_00	
UPJN_SOR_2014 -15_1020	Sunshade	····						0_00	
UPJN_SOR_2014 -15 1019	(a) Door		m3	0.09			10,992.00	989.28	
UPJN_SOR_2014 -15 1019	(b) Windows		m3	0,29			10,992.00	3,187.68	
UPJN_SOR_2014	Gantry Beam		m3	9 65			10,992.00	106,072.80	
-15_1019 UPJN_SOR_2014	Stairs		m3	7.8			10,992.00	85,957.44	
-15 1019	Same as item No. 5 but in 1, 1½3 for		1115	7,0			10,552.00	0.00	
UPJN_SOR_2014			m3	25			12,715,00	313,627.03	
-15 1023	(ii) Well Curb				<del> </del>		22,121,00	0.00	
	3.14x9.3x0.5x0.30x1.00 0.785x9.30x9.30x0.30		m3		-			0.00	
UPJN SOR 2014	0,785x9,30x9,30x0,30		m3					0.00	
-15 109 I	G PL-C		m3	4.24	-		12,715.00	53,898.89	
	Screen Platform  Pumping and bailing out of sub-soil		m3	4.24	<del> </del>	<u></u>	12,715.00	33,090.09	
	water including supply of all labour, T&P fuel etc. during construction		Job	1.00			6,000,00	6,000_00	
	Taci faci cic. daring construction	·	1					0.00	
UPJN_SOR_2014 -15_1027+1035	First Class brick work in 1 6 cement and local sand mortor in superstructure including supply of all material, labour,		m3	53 89			5,453.00	293,841,27	
	T&P etc. for proper completion of		+		1			0.00	
	Mild steel of iron work in plain work such as in R.C.C. and R.B. work (when not including in overall rates) wrought required shape as necessary including bending for completion of work and including supply of steel wastage of the							0.00	
UPJN SOR 2014 -15 1150	Raft @2%		Qt1.	11			9,511.00	108,587.47	
	Beam (including ring and gantry beam)		Qtl	38.86			8,912.00	346,279.78	
UPJN_SOR_2014	Slab and Roof Slab @1%		Qtl	17.54			8,912	156,316 84	
-15 1149	Lintals and Sunshades @1%		Qtl.	23.55			8,912.00	209,877 60	
-15_1149 UPJN_SOR_2014						<u> </u>		54,708.09	
-15 1149	Staircase @1%		Qtl	6 14			8,912.00		
-15 1151	Stening Wall @2%		Qtl.	328.20			9,511.00	3,121,504.20	
UPJN_SOR_2014 -15 1150	Cutting Edge @60kg/m		Ton	13.51			9,511.00	128,513.09	
					-			0.00	
	Providing and fixing steel glazed doors, windows and ventilaotr of standard rolled steel section joint welded with 15% 3 mm tuge. 10 mm long with steel tuges embeded in cement concrete blocks 15x10x10 cm of 1/3:6 or with fixing slips or with bolts and nuts as required including providing and fixing glass panes with glaging chip sand spuds metal such putty of approved made complete cost of approved steel primer excluding the cost of metal beading and other fitting except		M2	25,40			2,805.00	71,247.00	
	seeding and order many except							0.00	
	Supply of oxidised from fitting for doors and windows		M2	23.00			430.00	9,890.00	
	SOULD TIMOTTO							0.00	
	Supply and fix iron grill including all labour T&P etc. as per design and direction of Engineer Incharge complete in all respoect of work.		M2	22			4,500.00	99,000,00	
ļ				-	-	1		0.00	

		Manual Property	(4)	-	PC Portio	n (Yen)	LC Poni	on (INR)	Reference
	ligms	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
UPJN SOR 2014 -15 1235	Painting new iron work in small areas or over new wood work with one coat of primary and two coats of approved		3.12	398			101 69	40,391.08	
	enamel including supply of all material, labour, T&P etc. required for proper								
								0.00	
UPJN_SOR_2014 -15_1187 i	12 mm thick cement plaster with 1 6 cement and local sand mortor including supply of all materials labour T&P etc required for proper completion of work		M2	257			181 00	46,444 74	
								0.00	
UPJN_SOR_2014 -15_1253	Snowcem painting two coats of required shade including supply of all material and labour, T&P etc. required for proper completion of work on outside the pump house sunshade etc.		M2	333			18 24	6,079.76	
	Granolythic marble 25 mm thick				-			0.00	
UPJN_SOR_2013 -14_1219	consulting of 20 mm thick layer of consulting of 20 mm thick layer of cement approved coarse sand and 12 mm thick surface cont with ordinary black or grey of mixed marbles chip, 8 mm in approved of 1.2 and polished by hand or by machine and finally finished with french mension polish or any other approved polish excluding base concrete and including supply of all materials, labour. T&P etc. required for		M2	40			1,089 00	43,972 19	
								0,00	
	Supply and fix 25 mm G I Pipe rating on angle tron post including supply of all materials, labour, T&P required for proper completion of work							0.00	
	Angel iron 50 mm x 50 mm x 6 mm		M	197			336 00	66,114.72	
	G.I. Pipe 20 mm dia in three rows		M	285			190,00	54,172.80	
	1003							0.00	
	Supply and fix chequered plates including cost of all materials, labour,		М2	41			2,100,00	86,625,00	
	25 mm thick in 1.2;4 plain cement	·····	M2			-	572	18,467.25	
	Other Building Works Based in area		NI_	12			3/2	0.00	
CPWD 1.1.1 (B)	a) Operation Room		sqin	()		-	21,760	195,840.00	
CPWD _1.1.1 (B)			sqm	C)			21,760	195,840.00	
CPWD_1 1 1 (B)	c) Transformer Yard and Generator		sym	16			21,760	348,160.00	
	Site clearance and other unforeseen							0.00	
	items		Job	1			10,000	10,000.00	
					1			0.00	
	Other works							0.00	
	Construction of boundary Wall in Brick Masonary - (230 mm thick,1 mtr in		Rm	80			5,792.08	0.00 463,366,47	
	Length and 1.8 mtr in Height)  M.S. Gate (3.6 Mtr Wide) with Wicket		1,,					71 247 00	
	Gate (1.2 Mtr Wide)		No	1			71,348	71,347.98	
			+		-			10,811,087.81	
	Mechanical work		+++						
	Mechanical Step type Screens SS304 1 m wide 1 m depth with bar clear bar spacing 20 mm		no	1			299,196	299,196 18	
	Supply and installation of one set of complete Manuall cleaned coarse screen in the inlet chamber having the apperture size as 20mm. Screens shall		no	1			153,433.94	153,433.94	
	be installed at an inclination of 700  Belt Conveyor -500 mm width		no	T			178,113.64	178,113.64	
+	Screen Collection bin Trolley		no	1	+		243,178.32	243,178.32	
-					1		,	0.00	
	Pumping Plants and Its Accessories							0.00	
	Non-clog, single stage, bottom suction submersible pump of Capacity =160		nos.	3			707,694.64	2,123,083 91	
	cum/hrs. and head 21m. at Peak Flows Non-clog, single stage, bottom suction submersible pump of Capacity =65 cum/hrs. and head 17 m. at non Peak		nos	2			600,001.97	1,200,003 95	

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	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
-	Supplying, erecting, testing &								
	commissioning of Manually Operated Crane (single bridge girder carrying								
	two wheels, complete with chain		no,	1			239,031	239,031.41	
	pulley block, load chain of welded								
	construction of alloy steel as per								
	 IS:2429, hand chains for hoisting & Providing, installation, testing and								
	commissioning of glycerin filled								
	Pressure gauge of following ranges with		no.	6			1,022 11	6,132,69	
1	isolation valve and tap off pipe complete in all respect as per technical								
	 specification and as per direction of Tools and Tackles (As Per enclosed							0.00	
_	 a. Chain wrench		No:	2			7,500,00	15,000.00	
	 b. Pipe wrench		No.	3			1,100 00	3,300.00	
	c. Screw wrench		No.	3			700 00	2,100.00	
	 d. Ring spanners		No	1			2,000.00	2,000.00	
-	 e. Double ended spanners		Set	1			1,000 00	1,000.00	
	 		No.	1			250 00	250.00	<del></del>
	 f. Insulation pliers	<del></del>							
	 g. Hammer with handle		No	2			400_00	800.00	
	 h. Hexa blade frame		No	2			150,00	300.00	
	 i. Measuring tape of different size		Set	1			500,00	500.00	
	j Sprit level set comprising of		No.	1			1,000.00	1,000.00	
	- Filler gauge		No.	1				0.00	
	- Steel scale		No.	1				0.00	
	 - Chisel (150, 200 mm)		No.	1				0.00	
	 - File (Flat, half round, round and		Set	1				0,00	
	 triangular)							121	
	 k. Maggor HT & LT		No	1			15,000	15,000.00	
	 l Crimping Tools		No	ı			30,000.00	30,000.00	
	m. Multimeter		No	1			3,000	3,000.00	
	n. Power Drill		No.	1			5,000.0	5,000.00	
	Installation of all the equipments etc		job	1			150,000.00	150,000.00	
	 Commissioning of pumping station.		job	1			25,000.00	25,000.00	
	 Testing of pumping plants	- ···-	job	1		· · · · · · · · · · · · · · · · · · ·	25,000	25,000.00	
	 Painting of all equipment and drives		job	1			35,000.00	35,000.00	
-	 etc		1,00				,	0.00	
								0.00	
	 Valves and Fittings							0,00	
	 Sluice valve							0,00	
	 Manually operated Sluice Valve(DI)							0.00	
	 with H/w, PN10 conforming IS 1538							0.00	
	150 mm dia.		No	6	<u> </u>		26,321	157,925 21	
	200 mm dia.		No	1			77,541	77,540,78	
	Non-Return valve					ļ		0 00	
	CID/F Swing type Non-Return Valves								
	as per IS 5312, (Part-1 & 2) Single/Multidoor type (with Lever &							0.00	
	counterweight 400 mm & above) 700								
	 mm & above Dual Plate Check Valves		1				6.500	20.200.02	
	 150 mm dia		No	6			6,567	39,399.93 41,398 48	
	 D.F.C.I. Pipes and D.F. C.I. Specials		No	1			41,398.48	0 00	
	 Delivery piping shall commence from		+					0,00	
	90° discharge duck foot bend of								
	individual pump up to the start of rising		kg	30,317.00			60.00	1,819,020 00	
	main. This shall include column pipe, distance pieces, common header, bends						725		
	and tees etc. as per following details:-		1						
								0.00	
	 Providing, installation, testing and								
	commissioning of following Stain less								
	steel AISI 304 Expansion bellows of 10 bar rating with tie rods as per technical								
	specifications and layout drawings						-	0.00	
	including jointing material like nuts,								
	bolts, rubber gaskets etc. complete in								
	all respect as per technical specification								
	and as per 150 mm dia		nos.	6.00		<del> </del>	4,863.61	29,181 65	
	Nuts & bolts of SS and rubber insertion		1103	0.50		+	.,,555,01	22,204,00	
					1	1	1		
	/packing etc. @ 5% 0f the weight of CI		kg	1,515.85			300.00	454,755.00	

		0 18	47070	-	IIC Portio	n (Yen)	LC Portio	on (INR)	Tage 1
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Rising Malu							0.00	
	Mechanical							D. 00	
	Supply of DI K9 Pipe 200mm Dia		RM	260	<del>                                     </del>		3,169	823,966.00	
	Spacials @ 10% of Cost of pipe		LS	1 00			82,396 60	82,396.60	
-	Shacias and rove of cost of principle		1.0	. 00			82,330 00	0.00	
	Civil		-					0.00	
	Excavation for pipe line in ordinary soil								
	with lift upto 1.5 m and lead upto 50 m								
	including refilling, watering and ramming of excavated earth in trenches		cum	429.00			183.40	78,678 60	
	after laying pipe line, removal and								
	disposal of surplus material upto a								
	Laying Of pipe		RM	260,00			1,547.54	402,361,31	
	Total							8,763,047,60	
								0.00	
	Electrical work							0,00	
	RPM Diesel Engine of suitable BHP &								
	AC Brush less SPDP Alternator								
	mounted on a common base Prume &								
	coupled through a flexible coupling or close coupled Alternator shall be self								
	regulated with standard Alternator								
	Protection( Over voltage , over speed &								
	under voltage). Engine shall have residential silencer, up to 10 M exhaust								
	piping electronic Mechanical								
ŀ	governor, Manual & electric Start		Ì						
	Batteries, Fuel tank ( with Stand) & piping, control panel (16 G) with								
	MCCB (4P, 25 KA), Ammeter,							0.00	
	Voltmeter, Frequency Meter, Energy								
	Meter & Hour Meter, Engine								
ł	instruments panel, AVM and with Weatherproof, powder coated							į	
	Accoustic enclosure for IXi set for								
	sound attenuation fabricated from 2.0								
	mmCRCA sheet steel (structure) with side wall fabricated from 2.0 mm		1					Ì	
	CRCA sheet & filled with 100mm thick					l			
	glass wool(96Kg/m3) as per IS 8183								
	the doors of 100 mm thick and					:			
	fabricated from 1.6mm CRCA sheet								
	Air Cooled & Naturally Aspirated-							0.00	
	Along with AMF Panel 75KVA at 0.8 pf 415V 50Hz 3-0 SITC of AUTU MAINS FAILURE		no_	1.00			1,108,200.00	1,108,200.00	
	SITC OF AUTU MAINS FAILURE (AMF) Panel fabricated from CRCA		1						
	sheet steel 2mmThick Powder coated								
	finish, Engine START & STOP								
	commands, control								
	RELAYS, selector switches for Ammeter & Voltmeter, Ammeter &							0.00	
	Voltmeter, Control & Power							217.	
	Contactors, Timers, Electronic Hooter								
	,Visual & Alarm indication for faults, UPS, operator interface panel complete				1				
	in all respect suitable for following								
	75 KVA at 0.8 pf 415V 50Hz 3-Ø		no.	1			225,000.00	225,000.00	
	Complete power wiring along with							,000.00	
	cables & materials from D.G. set to the		LS	1			25,000.00	25,000.00	
	Incoming Panel of L.T. panel as per I.E.  Complete earthing of the D.G. set,		+					-	
	including supply of all materials,		Job	1			16,000.00	16,000.00	
	construction of earth pits as per I.E.		11						
	Supply of 12mm thick PVC rubber matting of 1M × 1M size and with ISI		sqm	6			1,230.53	7,383.20	
	First filling of Mobile oil		Job	1			5,000.00	5,000.00	
	Installation of D.G. set complete with		Job	1			25,000.00	25,000.00	
	construction of foundation etc		100	1			00.00,00	23,000,00	
	Commussioning of the D G, set including fuel for a max, period of 8		Job	1			15,000.00	15,000.00	
	Testing of the D.G. set		Job	1	† · · · · · · · · · · · · · · · · · · ·		15,000	15,000.00	
							,	0.00	

				10-5	FC Portio	on (Yen)	LC Portio	on (INR)	D C
	Items	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	Direct on line Full Bore electro-								
	magnetic Flow meter for sewage application. The flow meter shall be								
	suitable for bi directional flow								
	measurement. This shall be having		1 1						
	protection category of the sensor shall								
	be IP68and protection category for the		1						
	transmitter shall be IP- 65. Accuracy		nc.	1			598,159.50	598,159.50	
	shall be of +/- 5% of measured value								
	without being affected by variation in								
	the line pressure Equipment should be complete with converter, transmitting								
	device and should be fully					1		1	
	programmable with digital flow								
	indicator & integrator etc. The sensor				ļ				
								0.00	
	Internal and External Lighting							0.00	
	Internal				1			0.00	
	Point Wiring in surface rigid P V C	<del></del>							
	conduit system with Flush type								
	Accessories Point wiring including								
	metallic switch box, sheet, switches,								
	sockets, lamp holders/ceiling roses etc								
	with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor							0.00	
	ISI marked in Surface rigid P V.C.							0,00	
	conduit (MMS) ISI Marked of suitable	;							
	size and 1.5 Sq. mm. PVC insulated								
	copper earth continuity conductor of		1 1						
	green colour inside conduit including								
	painting etc. as required as per	+	+		<del> </del>			0.00	
	Light Point/Fan Points				ļ	-			
	Medium point (up to 6 mtr.)		nos.	4			583	2,333.10	
	Long point (up to 10 mtr.)		nos	4			893.97	3,575.88	
	3 Pin 6 Amp socket outlet on Separate							0.00	
	Board								
i	Medium point (up to 6 mtr.)		nos	4			595	2,379.30	
	Circuit Wiring -				1				
	Wiring for circuit wiring with PVC								
	insulated cable FR with copper multi- strand conductor ISI marked in Surface							0.00	
	rigid P.V C. conduit (MMS) of ISI	*	1 1						
	marked suitable size including painting	z							
	etc. as required as per specification								
1	2x2.5 Sq.mm.		m	30		l	104 00	3,120.00	
	METALLIC SWITCH BOXES -								
	Supplying and fixing factory fabricated	i i							
1	hot dip galvanised switch box for					1		l i	
- 1	normal flush type accessories of								
	minimum 1.2 mm (18 swg gauge) thickness with earth terminal stud with	,					502	76.08246e N	
	nut and washer, with 3 mm thick		nos.	4			232	928.62	
	synthetic phenollic resin bonded								
	laminated sheet conforming to grade P								
	of IS 2036-1974 on surface / concealed	d							
	including painting etc as required as								
	per specification- MS Box 200 mm X Suppyling of ISI Marked Switch Fuse				+				
	Unit (rewirable type ) triple								
	pole with neutral link ,415 Volt having	z						0.00	
	conduit / cable gland entry							0.00	
	with two earthing terminals confirming	В							
	to IS . 13947(Part I & III) -	+							· · · · · · · · · · · · · · · · · · ·
	63Amp		nos.	2		1	3,575.88	7,151.76	
	Supplying, fixing & testing of approve	:d							
	make of low watt surface mounting			1					
	luminaires, made of white powder coated CRCA sheet steel housing with	,							
	aluminium mirror reflector complete								
	with control gear, wired upto terminal							0.00	
1	block on a detachable tray including								
	fixing on wall/ Ceiling on wooden								
	round block including wiring &								
		r		4		1	1 200	6.700.01	
	connection as required and suitable for			. 4	1	1	1,677	6,708 24	
	connection as required and suitable for 2 no 18 watt CFL		nos	*		+	10.0		
	connection as required and suitable for 2 no 18 watt CFL Supplying, Fixing and Testing of	1	nos	4					
	connection as required and suitable for 2 no 18 watt CFL Supplying, Fixing and Testing of Compact Flourescent Lamp (CFL) wit		nos	4				0 00	
	connection as required and suitable for 2 no 18 watt CFL Supplying, Fixing and Testing of		nos	,				0 00	

15	Remi	Smari Bassian	Unit	Du	PC Partion (Yen)		1.C Porti	on (INR)	Reference
	riems	Specification	Unit	Oty	Unit Price	Amount	Unit Price	Amount	Reference
	Supplying, fixing and testing of approved make bulk head luminaire consisting of pressure die aluminium housing lamp holder, prismatic glass cover, rubber gasket and wire guard, delux type, including fixing on wall as		nos	2			589 05	1,178 10	
	required, with necessary material complete Pitting(suttable for GLS w/o lamp upto 11 watt Retorted CPL). Supplying, erection and testing of approved make electric Ceiling fan of						-		
	double ball bearing complete with standard down rod, canopy, hunging shackle, Aluminium blades, without regulator, A C. 230-250 volts including connections with all necessary material complete as required confirming tolS: 374/1979 with upto date animendments. Ceiling Pan (Bnergy		nos	2			1,983,14	3,966-27	
	Supplying, erecting and testing of approved make Exhaust Fan heavy duty with mounting frame, blades AC 230-250 complete connection and including frame bolt/ Anchor hole fastners etc complete finished and as required 300mm sweep 900 RPM		hos	2			2,971 82	5,943.63	
	External Providence testing and							0.00	
	Potviding etecting, testing and commissioning solar street light system on 80 mm heavy duty galvanised from pipe 6 meter hight with 30cm x 30cm x 2mm hase plate installed own cement concrete padestal casing complete with solar panel, solar battery with charger other accessories with control		nos	2			53,187 75	106,375 <sub> </sub> 50	
	panel in weather proof pole box, solar fitting LED type or CFL type 18 watt to								
								0.00	
	Switchgear with Cabling		_					0.00	
	L.T Control Switch Gear Panel Board.							0.00	
	STTC of walll/free standing floor mounted dust and vermin proof compartmentalised cubical panel made out of CRCA sheet, required hardware, duly painted by either two coats of zinc/red oxide primer followed by two coats of synthetic enamel paint for powder coating in grey or required shade after rising. The panel having PU/Neoprene rubber gasket of not less than 3mm thickness, separate detachable, gland plate M.S. base channel, hinged door with locking arrangement for equipment/switchgear Thickness of sheet shall not be less than 2.0mm Load bearing structure shall be of 2 0mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments having bolted type doors with detachable Supplying and fixing of electrolytic roads 4 Aluminum has be the means of		Sq m	10,00			3,840,00	38,400,00	
	grade Aluminium bus bar by means of SMC / DMC type insulator, high tensile nuts and bolts spring washers in existing panel including bending, cutting in required shape and size and colour coding with heat shrinkable PVC		kg	8			411	3,289.04	
	 Incoming Panel SITC of quick make and quick break 4		+					0.00	
	POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz, O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test)		No	3			33,000	99,000.00	
	to trip , including making connections with lugs / spreaders etc. as required With Microprocessor based Release. 200 Amp, 25/35 kA, adjustable O/L & adjustable S/C setting								

						FC Portio	n (Yen)	LC Portio	on (INR)	
	UHR CELL	Items	Specification	Unit	Qty	Unit Price		Unit Price	Amount	Reference
				27		Olai Frice	Tunoun			
		Shunt trip Release		No.	3			1,740	5,220.00	·
		Under Voltage Release		No.	3.0			2,590 00	7,770.00	
		Earth Fault Module		No.	3,0			1,650.00	4,950_00	
-		Outgoing Panels							0.00	
		SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz, O/L & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront face and centralisedadjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip, including making connections with lugs / spreaders etc. as required With Microprocessor based Release, up		No.	6			19,950	119,700 00	
		to 100 Amp, 16 kA, adjustable O/L & adjustable S/C setting								
		Supply and fixing of following		1 1					0.00	
		accessories for MCCB		4			ļ			
	ļ	Shunt trip Release		No	6	<b> </b>	ļ	1,740	10,440.00	
		Under Voltage Release		No.	6			2,590	15,540.00	
		Earth Fault Module		No.	6	ļ		1,650.00	9,900,00	
		SITC of DOL with panel conforming to applicable standards, with Graphical Display with atleast display of 5 different parameters at a time and display of 2 parameters with Bargraph, digital and analogue I/O, relay outputs, adjustable Accel/Decel times, motor protection, RS 485 serial link for		No	5			17,250	86,250 00	
		Connections to Modbus, 3.7 /5.5KW  Level transmitters ultrasonic type - 8		+						
		meters liquid		No.	1			110,490	110,490.00	
		Automatic start / stop device according to prefixed level in the pump with timer and audio-visual signal or circuit such as hooter arrangement for lowest and highest allowable level in the sump.		No	6			5,000,00	30,000.00	
		Moisture sensing relay Sensing device to signal and trip the motor against of water into oil chamber.		No.	6			5,000 00	30,000.00	
		Device for taking signal from the thermister in motor winding and tripping the circuit on reaching pre-set		No.	6			5,000	30,000.00	
		Single phasing preventor		No.	6			2,500	15,000.00	
		Reverse rotation trip device for motor.		No.	6.0			1,500.00	9,000.00	
		SITC of self healing MPP/MP type shunt capacitor (banks) conforming to IS:13340-41 / IEC:831-1&2 in existing panel or parallel with load terminals, the capacitor shall be fitted with discharge resistors, pressure sensitive disconnector (PSD) and shall have dissipation factor less than 0.0025 at 50 Hz and total wattage loss less than 0.5 Watt per KVAR. including making connections with suitable capacity conductors/cables testing as required. Heavy duty Three phase 440 V		KVA r	20.00			1,168 50	23,370.00	
		SITC of microprocessor based intelligent power factor correction relay having following sensing capacity secondary current, self analysing auto c/k setting according to targeted power factor setting, the relay shall have minimum three digit display unit for display of real power factor, targeted power factor, lag/lead capacitor switching status, alarm output for under current, over current, insufficient compensation, indication of switching on units, auto/manual status, and shall have over load protection, no volt release etc. as required. 6 to 8 stage.  SF of Current Transformer, with all necessary support in existing panel		No.	1			27,006 27,006 436 83	27,006.08	
		including connection etc. as required up to 150 / 5 Ratio , 5 VA , class 1		No	6.00			436 83	2,620.95	
		SF of CT linked selector switch of 10 A								

	Items	Specification	Unit	276	PC Portion (Yen)		LC Portion (INR)		Reference
			Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
	SP of 240/220 V, LHD (22.5 mm din )								1-1
	Pilot lamp with integral circuit, terminal block, including connection etc. as		Set	15			286	4,282 60	
	equired Red/yellow/ Green colour				-				
	Auxiliary Outgoing panels, These shall be required for the following purposes							0.00	
	Plow meter, Level Indicator, Pressure							0.00	
	Indicating Devices etc For miscellaneous works such as								
	welding Dewntering pups etc.							0.00	
	Spare Punel							0.00	
	SITC of quick make and quick break 4								
	POLE current limiting MCCB having following current rating, short circuit								
	breaking capacity at 440 415 V, 50 Hz.								
	O/1 & S/C settings and conforming to IS 13947-2 / IEC 60947-2 withfront								
	face and centralisedadjustable, line load								
	interchangeability, having positive		No	5			19,950	99,750 00	
	isolation capability, provision for UVR, shunt trip ,earth fault trip, push ( test )								
	to trip including making connections								
	with lugs / spreaders etc as required								
	With Microprocessor based Release up to 100 Amp., 16 kA, adjustable O/L &								
	ndjustable S/C setting		_						
	P/Laying XLPE insulated / P.V.C. sheathed cable of 1.1 KV grade with							}	
	aluminum conductor Armoured of						}		
	15.7098-1/1554-1 approved make in								
	ground as per IS 1255 including excavation of 30cmx75cm size trench,		m	50			692	34,617,69	
	25 cm thick under layer of sand. Hnd						ļ		
	class bricks covering refilling								
	compaction of earth, making necessary connection testing etc. as required of						Ì		
	P & Laying XLPE insulated								
	IS:7098/II/85 of Group1 and approved make HT cable for working voltage 11								
	K.V. Harthed direct in ground including								
	excavation of 30cm x100cm size		m	50			1,113	55,673.82	
	trench, 25cm layer of river sand, find class bricks covering, refilling earth,						j		
	compaction of earth, making necessary								
	connection testing etc.as required of Providing & making heat shrinkable								
	type or outdoor/ straight through						1		
	terminations/joint kit of Group1 and								
	approved make suitable for XLPE insulated 11 KV cable, with required		No.	2,00			12,073.0	24,146_00	
	components, prepration of cable								
	ends, testing etc. as required of							-	
	Supplying and making one end termination with heavy duty single								
	compression brass gland SIBG type,								
	aluminium lugs duly crimped with crimping tool, PVC tape etc for		Set	6			408	2,449 65	
	following size of Armoured PVC		DEL	· ·			400	2,449.03	
	insulated & PVC sheathed/ XLPE								
	aluminium conductor cable of 1100 volt grade as required of								
	Plate Earthing as per IS:3043 with								
	copper Earth plate of size 600mm x								
	600mm x 3.0mm by embodying 3 to 4 mtr. below the ground level with 20								
	mm dia. G.I. 'B' class watering Pipe								
	including all accessories like nut, bolts, reducer, nipple, wire meshed funnel,		Set	4			6,745	26,980.39	
	and C.C. finished chamber covered								
	with hinged type with locking								
	arrangement C.I. Cover, C.I. Frame of size300mm x 300mm complete with								
	alternate layers of salt and								
	S & Laying following size earth								
	wire/strip in horizontal or vertical run in ground/surface/recess			222			2.	200000	
	including riveting,		m	100			6	642.39	
	soldering, saddles, making connection								
	etc. as required. 10 SWG G I. Wire  Power and Control cables for						25.000	25.22	· · · · · · · · · · · · · · · · · · ·
	connecting motors of various drives		Lot	1			35,000	35,000.00	
	Rubber matting of 12 mm thickness and LSI marked and suitable for 0.415		sqm	4			1,231	4,306.87	
	1.51 market and suitable for U-415		- 30					3,153,533	
					+			2,,22,,22	

[Direct Cost]  *Civil/Building work*  [Direct Cost]  Other works  Cost of sewer cleaning equipments, FI  Hiring of Godown and Site Office  Communication & Public Outreach	Specification	Unit	Qty	Unit Price	Amount	Unit Price	Amount	Reference
Civil/Building work> [Direct Cost] Other works Cost of sewer cleaning equipments, FI Hiring of Godown and Site Office				-				
Civil/Building work> [Direct Cost] Other works Cost of sewer cleaning equipments, FI liring of Godown and Site Office								
Direct Cost] Other works Cost of sewer cleaning equipments, FI Jiring of Godown and Site Office		1						
Direct Cost] Other works Cost of sewer cleaning equipments, FI Jiring of Godown and Site Office								
Other works Cost of sewer cleaning equipments, Fi Hiring of Godown and Site Office		†						
Cost of sewer cleaning equipments, Fi Iiring of Godown and Site Office		<u> </u>						
Hiring of Godown and Site Office	uching Van	рс	1	· · · · · · · · · · · · · · · · · · ·			4,000,000.00	
	I I	рс	1				8,000,000.00	
		+	1	-			1,000,000	
	(F) (F)	pc						
Environmental and Management Plan		pc	1				26,000,000	
Governance and Accountibility Action		pc	1				1,848,000	
Cost of sewer cleaning equipments, FI	ushing Van	pc	1				26,300,000	
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Sub-Total		$\vdash$			0		67,148,000	
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