

SCHEDULE 2 (Part-I) Sewage Treatment Plant

Sr.No.	ITEM OF WORK (Description)	UNIT	Total Quantity	RATE	Amount (Rs.)
1.	Designing, providing, constructing and commissioning and giving satisfactory performance test for modernized and fully automated package/modular Sewage Treatment Plant including cost of all equipments and civil/mechanical /electrical work required to provide/install such plant and providing necessary automation to enable unmanned operation and e-connectivity with control office inclusive of cameras of adequate resolution, computer hardware and modem to transmit data and images to control office suitable to land availability for each STP including providing necessary plant shade, providing beautification, providing de-odourization system, providing roads in STP premises for facilitating conveyance arrangement of de-hydrated sludge as per detailed specifications etc complete Note: Plant to be designed and tested for effluent standards of BOD < 10 ppm : TSS < 20 ppm Average flow for STP to be provided for each zone shall be as below				
a.	For Zone No 1 : 14 MLD	MLD	14	6807521	95305289.1
b.	For Zone No 2 : 8 MLD	MLD	8	6185021	49480165.2
c.	For Zone No 3 : 17 MLD	MLD	17	6807521	115727851.1
d.	For Zone No 4 : 12 MLD	MLD	12	6807521	81690247.8
e.	For Zone No 5 : 7 MLD	MLD	7	6185021	43295144.55
f.	For Zone No 6a : 13 MLD	MLD	13	6807521	88497768.45
g.	For Zone No 6b : 7 MLD	MLD	7	6185021	43295144.55
h.	For Zone No 6c : 11 MLD	MLD	11	6807521	74882727.15
i.	For Zone No 7 : 12 MLD	MLD	12	6807521	81690247.8
j.	For Zone No 8 : 9 MLD	MLD	9	6185021	55665185.85
	Total		110		729529771.5

SCHEDULE 2 (Part-II) PUMPING STATIONS			
Item No	ITEM WORK (Description)	RATES	AMOUNT(Rs.)
1	Designing and constructing pumping stations (Civil work) including providing sumps with minimum water depth of 3.0 mtrs and pump houses diesel generator rooms as per detailed scope of work. Item to include		
	1.Necessary excavation in all sorts of strata such as soil inclusive of slushy/marshy/muddy soil, soft and hard murum and boulders, hard rock and old concrete structures by chieesseling, wedging drilling including necessary shoring, strutting, open/close timbering, dewatering upto completion of work, drilling piles for pile foundations to be provided as per detailed design etc complete.		
	2.Providing rubble soling, PCC and RCC (Not below M250 grade) for raft foundation with open/ pile foundation, vertical walls for sump and pump-house, beams, slabs, lintels and providing placing steel reinforcement with fusion bond epoxy coating as per detailed design etc complete.		
	3. Providing polished shahabad/IPS/Mossaic flooring for pumphouses		
	4. Providing doors, windows, ventilators, rolling shutters etc as per requirement		
	5. Providing internal waterproof plastering for sumps, 20mm internal plaster and 25 mm external plaster for structure above GL, providing oil bound distemper from inside and snowcem paint for pumphouse from outside etc complete.		
	6. Providing fixing internal ladders/staircases as per necessity		
	7. Providing necessary arrangement of gantry girders, chain pulley block etc for installation and repairs of pumps		
	8. Structure to be designed for uplift pressure		
	9. Givingsatisfactory hydraulic test for sumps		
a	For Zone No 1 with sump capacity 333 cum and FSL 7 mtr below GL,	Lump sum	13904581
b	For Zone No 2 with sump capacity 250 cum and FSL 6 mtr below GL,	Lump sum	10438874
c	For Zone No 3 with sump capacity 1042 cum and FSL8 mtr below GL,	Lump sum	43509228
d	For Zone No 4 with sump capacity 417 cum and FSL 5mtr below GL,	Lump sum	17412042
e	For Zone No 5 with sump capacity 292 cum and FSL 8 mtr below GL,	Lump sum	12192605
f	For Zone No 6a with sump capacity 417 cum and FSL 8 mtr below GL,	Lump sum	17412042
g	For Zone No 6b with sump capacity 292 cum and FSL 6 mtr below GL,	Lump sum	12192605

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Item No	ITEM WORK (Description)	RATES	AMOUNT(Rs.)
h	For Zone No 6c with sump capacity 1354 cum and FSL 4 mtr below GL,	Lump sum	56536943
i	For Zone No 7 with sump capacity 833 cum and FSL 6 mtr below GL,	Lump sum	34782329
j	For Zone No 8 with sump capacity 1146 cum and FSL 10 mtr below GL,	Lump sum	47851800
2	Designing, providing, installing pumping machinery considering peak factor requirements with discharging capacity suitable for treating average daily flows with 2 pumps each capable to discharge 25% and 100% of average flow and 4 pumps capable to discharge 50% of average flow as mentioned below capable to operate in combination and head requirements based on FSLs of sumps as below and delivery level to be finalised as per STP design by the service provider, confirming to relevant IS standards, suitable flanges at suction and delivery side, suitable for working on 415 V +/- 10%, 3ph, 50 Hz AC supply with necessary foundation, providing and fixing sluice valve valves with valve actuators, non-return valves, Foot valves, Providing and erecting M.S Vertical/Horizontal pipes and specials, providing, installing panel boards with starters, change over switches, volt meters, ammeters etc, and electric cables for operating pumps, providing necessary earthing arrangements, commissioning the pumping machinery and giving satisfactory hydraulic test etc complete		
a	For Zone No 1 with average flow of 14 MLD and sump FSL 7 mtr below GL,	Lump sum	12878140
b	For Zone No 2 with average flow of 8.0 MLD and FSL 6 mtr below GL,	Lump sum	7358937
c	For Zone No 3 with average flow of 17.0 MLD and FSL 8 mtr below GL,	Lump sum	15637742
d	For Zone No 4 with average flow of 12.0 MLD and FSL of sump 5 mtr below GL,	Lump sum	11038406
e	For Zone No 5 with average flow of 7.0 MLD and FSL of sump 8 mtr below GL,	Lump sum	6439070
f	For Zone No 6a with average flow of 13.0 MLD and FSL of sump 8 mtr below GL,	Lump sum	11958273
g	For Zone No 6b with average flow of 7.0 MLD and FSL of sump 6 mtr below GL,	Lump sum	6439070
h	For Zone No 6c with average flow of 11.0 MLD and FSL of sump 4 mtr below GL,	Lump sum	10118539
i	For Zone No 7 with average flow of 12.0 MLD and FSL of sump 6 mtr below GL,	Lump sum	11038406
j	For Zone No 8 with average flow of 9.0 MLD and FSL of sump 10 mtr below GL,	Lump sum	8278804.5

SCHEDULE 2 (Part-II) PUMPING STATIONS			
Item No	ITEM WORK (Description)	RATES	AMOUNT(Rs.)
3	Designing, providing, installation, testing and commissioning diesel generators for operating pumps at all pumping stations as well as operation of STP plant during period of load shading/ power failure as specified in Item 2 above including necessary cable connections, change over switches etc complete		
a	For Zone No 1 with average flow of 14 MLD	682500	9555000
b	For Zone No 2 with average flow of 8.0 MLD	735000	5880000
c	For Zone No 3 with average flow of 17.0 MLD	682500	11602500
d	For Zone No 4 with average flow of 12.0 MLD	682500	8190000
e	For Zone No 5 with average flow of 7.0 MLD	735000	5145000
f	For Zone No 6a with average flow of 13.0 MLD	682500	8872500
g	For Zone No 6b with average flow of 7.0 MLD	735000	5145000
h	For Zone No 6c with average flow of 11.0 MLD	682500	7507500
i	For Zone No 7 with average flow of 12.0 MLD	682500	8190000
j	For Zone No 8 with average flow of 9.0 MLD	735000	6615000
		TOTAL	444120939