

Office of the Chief Executive Officer Shri Mata Vaishno Devi Shrine Board, Katra

CORRIGENDUM

Tender ID: 2024_SMVSB_259516_1

In reference to the e-NIT No. CO/SW/STP/ 162/ 08 of 2024 Dated: 11.10.2024 for the work of Survey, Design, Supply, Installation, Commissioning, Testing, Operation and Comprehensive Maintenance for (05 years) of Centralized Sewage Treatment Plant (STP) 100 KLD capacity based on Membrane Bio Reactor (MBR) for Toilet Blocks at Nomain Staff Colony, Katra" issued vide this office No: CO/SW/ 162/60-63 Dated: 11.10.2024, changes have been made/incorporate in the ibid e-NIT as per following:

1. Please read revised technical specifications mentioned in the Annexure I to VIII shall be part of the E-NIT.

"Instead of"

Technical specifications as mentioned in the Annexure I to VIII of the E-NIT.

Furthermore, due to typographic error in the ibid e-NIT.

2. Please read the EMD amount Rs. 4,20,000/- in the tender details document on jktender.gov.in

"Instead of"

EMD amount Rs. 42,00,000/- in the tender details document on jktender.gov.in

3. Please read the clause No 10 (i) Designing of Civil work

Civil work like Platforms & other works for the Centralized Sewage Treatment Plant shall have to be designed for the total sewage flow 100 KLD within the available land / site for the project.

"Instead of"

Civil work like Platforms & other works for the Centralized Sewage Treatment Plant shall have to be designed for the total sewage flow 30 KLD/day within the available land / site for the project.

Other terms and conditions of the ibid e-NIT shall remain the same

Sd/-Vinay Khajuria Asstt. Conservator of Forests

Enclosed Annexure I to VIII No.: CO/SW/STP/162/131-134

Dated: 17.10.2024

Copy to the:-

- 1. Chief Executive Officer, SMVDSB, Katra, for information.
- 2. Addl. Chief Executive Officer, SMVDSB, Katra
- 3. FA/ Chief Accounts Officer, SMVDSB, Katra
- 4. Dy. Manager (IT) for publication on the official website of the Shrine Board
- 5. Concerned/ Master file.

Technical Specifications

A. Centralized Sewage Treatment Plant-100 KLD followed by MEMBRANE BIO REACTOR Technology (MBR)

Survey, Design, Supply, Installation, Commissioning, Testing, Operation and Comprehensive Maintenance (Five years) of Centralized Sewage Treatment Plant (based on MEMBRANE BIO REACTOR Technology (MBR) of 100 KLD Capacity complete in all respects to cater the requirement of Toilet Blocks Nomain Staff Colony, Katra of Shri Mata Vaishno Devi Shrine Board.

DESIGN CRITERIA			
S.No	Description	Consultant's Requirement/ Recommendation	
1	Flow Capacity Total daily ultimate flow in Cu.m/day Peak factor	100m3/day 3.00 hrs.	
2	Quality of the Untreated Effluent BOD Suspended solids COD pH Oil & grease	250 to 300 mg/lit 250 mg/lit 350 to 450 mg/lit 6.5 to 8.0 10 mg/lit	
3	Quality of the Treated Effluent BOD Suspended solids COD pH Oil & Grease	<10mg/lit < 20mg/lit <50mg/lit 6.5 to 8.5 < 5mg/lit	
4 5	Location & Position of STP Treatment Methodology	Attached as per Survey Report MBR Technology	
(CONTRACTOR) Dated:			

Affidavit to be submitted by the bidder

Performa of affidavit to be submitted by the bidder regarding eligibility. "I/We undertake and confirm that eligible similar work(s) has /have not been got executed through another contractor on back to back basis.

Further that, if such a violation comes to the notice of SMVDSB, then I/We shall be debarred for biding in SMVDSB Contracts in future forever. Also, if such a violation comes to the notice of SMVDSB before date start of work, the Authorized Officer of SMVDSB shall be free to forfeit the entire amount of Earnest Money Deposit/ Performance Guarantee."

Signature of Bidders
Signature of Block Letters
Name of the Firm & Address

Annexure -III

List of Indian Standards on Sewerage and Sewage System

List	List of Indian Standards on Sewerage and Sewage System			
1	IS: 5600-1970	Indian Standard Code: Specification for Sewage and Drainage Building Elements		
2	IS 6279 :1971	Indian Standard Code: Equipment for grit removal devices		
3	IS 6280:1971	Sewage screens		
4	IS 7784: Part 1& 2: Sec 1 to 5	Indian Standard Code: Code of practice for design of cross drainage work Part 1 General features		
5	IS 9110:1979	Indian Standard Code: Hand operated augers for cleaning water closet. pipe and sewer		
6	IS 9213:1979	Indian Standard Code: BOD Bottle		
7	IS 10037 : PT1 to 3 :1981	Indian Standard Code: Requirements for sludge dewatering equipment. Part 1 sludge drying beds-sand, gravel and under drains		
8	IS 10261 :1982	Indian Standard Code: Requirement for sewing tank (clarifier equipment) for waste water		
9	IS 10552:1983	Indian Standard Code: Buckets to be used in power driven buckets type sewer cleaning machine		
10	IS :4733-1972	Method of sampling test sewage effluent		

Annexure -IV

	Approved Makes of Major Compor	nents for Centralized Sewage Treatment Plant
1	Air blower	Akash/A1 Blower/Key/Airvak
2	Blower Motor	Bharat Bijlee /Crompton Greaves/ Siemens /
		Kirloskar or Equivalent
3	Submersible Non Clog Pump	Willo/KSB/CNP/Kirloskar/Lubi
4.	Clear water pumps	Willo/KSB/CNP/Kirloskar/Lubi
5	Disinfection Pump	Asia Lmi / Toshcon/Pentair/ E-Dose or
	·	Equivalent
6	Gear Boxes	Greaves Gear or Equivalent
7	Cable	Finolex / Polycab / Delto /Havells or equivalent
8	Sludge Transfer Pump	Roto/ Kirloskar /Willo / Ksb / Lubi/Jhonsons or
		equivalent
9	Butter Fly Valve	ISI
10	Control Panel	CPRI Approved Vendor with component shal
		be from L&T / Siemens / English Electric
		Component / Auto Switch or Equivalent
11	Gun Metal Valve	Any ISI make
12	HDPE / PVC Pipe Class III	Finolex / Supreme / Oro / Trustlene or
		Equivalent with fitting
13	GU/MS Pipe Heavy Class paint /	Jindal Hissar/Surya/Prakash or equivalent
	epoxy paint	
14	Solution Tank	Sintex, Ganga, Sheetal, LDPE or equivalent
15	Diffuser	Rehau/ Techpro/W360
16	Structural Steel	Tata / Rathi / Ispat /Sail or equivalent
17	MS/GI /UPVCPiping	Jindal / Supreme/Astral/Surya Prakash
18	MBR Unit	Qua/Dow/Imemmflow/Dupond/Hiflux/Pentair
19.	Screw Press	W 360/CNP/Akash/Auric/Pharmatech/SIMA
20	Basket Type Centrifuge	A B engineers/ W 360/Apollo
21	Sludge Loading Pumps	Kirloskar/Roto/Rotomac/Willo
22	UV System	Alfa/Creative/W 360/Sukrat
23	Ozonator System	Creative/Sukrat/Am Ozonics/W360
24	Flow meter	Aster, UPC/W360/Forbes
24	Pressure gauges, Transmitter	H guru
25	Permeate Pumps & Back wash	Willo/KSB/CNP/Kirloskar/Lubi
-	Pumps& Other clear water pumps	
26	Control Panel (Electrical)	CPRI Approved Vendor
27	Cabling & Wiring	Finolex, National, Polycab
28	Cable Tray	Vendor specific, ISI Mark

DESIGN CRITERIA & SPECIFICATION OF EQUIPMENTS CENTRALIZED SEWAGE TREATMENT PLANT - 100 KLD for Toilet Block at Nomain Staff Colony, Katra

S. No.	DESIGN PARAMETERS	Inlet	Outlet
1	рН	6.5 - 8.0	6.5 - 8.5
2	BOD	250 - 300 mg/l	< 10 mg/L
3	COD	350 - 450 mg/l	< 50 mg/L
4	TSS	200 - 300 mg/l	< 20 mg/L
5	Oil & Grease	< 10 mg/l	< 5 mg/l

Annexure -VI

CIVIL WORKS FOR STP (SCOPE OF SMVDSB)		
1. COLLECTION TANK (EXISTING)		
Quantity 1 No.		
Capacity As per site		
MOC Civil Construction		
2. ELECTRICAL SUPPLY TO OUR PANEL		
3. SUPPLY OF SEWAGE TO COLLECTION TANK		
4. EARTHING TO OUR PANEL		

MILD STEEL TANKS			
1. BAR SCREEN CHAMBER			
Quantity	1 No.		
Size	0.6m x 0.8m x 0.8m		
Capacity	0.4m3		
MOC of Tanks	Mild Steel		
Thickness of Tanks	5 mm thick		
Surface Protection (Inside)	FRP Coating thickness 2 mm		
Surface Protection (Outside)	Enamel		
2. OIL & GREASE TRAP			
Quantity	1 No.		
Size	0.6m x 0.8m x 0.8m		
Capacity	0.4m3		
MOC of Tanks	Mild Steel		
Thickness of Tanks	5 mm thick		
Surface Protection (Inside)	FRP Coating thickness 2 mm		
Surface Protection (Outside)	Enamel		
3. COLLECTION CUM EQUALIZATION TA	NK		
Quantity	1 No.		
Size	2.8 m x 3.0 m x 3.0m + 0.4m FB		
Capacity	25 m3		
MOC of Tanks	Mild Steel		
Thickness of Tanks	5 mm thick		
Surface Protection (Inside)	FRP Coating thickness 2 mm		
Surface Protection (Outside)	Enamel		
4. ANOXIC TANK			
Quantity	1 No.		
Size	3.6 m x 1.0 m x 2.8 m + 0.4 m FB		
Capacity	10 m3		
MOC of Tanks	Mild Steel		
Thickness of Tanks	5 mm thick		
Surface Protection (Inside)	FRP Coating thickness 2 mm inside		
Surface Protection (Outside)	Inside : FRP: Outside: Enamel		
5. AERATION TANK			
Quantity	1 No.		
Size	3.6m x 2.5m x 2.8m + 0.4m FB		
Capacity	25 m3		
MOC of Tanks	Mild Steel		
Thickness of Tanks	5 mm thick		
Surface Protection (Inside)	FRP Coating thickness 2 mm		
Surface Protection (Outside)	Enamel		
6. MBR TANK (AS PER MEMBRANE MAKE RECOMMENDATION)			
Quantity	1 No.		
Size	3.6m x 1.5m x 2.8m + 0.4m FB		
Capacity	15 m3		
MOC of Tanks	Mild Steel		
Thickness of Tanks	5 mm thick		
Surface Protection (Inside)	FRP Coating thickness 2 mm		
Surface Protection (Outside)	Enamel		

7. MBR CLEANING TANK (AS PER MEMBRANE MAKE RECOMMENDATIONS)		
Quantity	1 No.	
Size	3.6 m x 1.5m x 2.8m + 0.4m FB	
Capacity	15 m3	
MOC of Tanks	Mild Steel	
Thickness of Tanks	5 mm thick	
Surface Protection (Inside)	FRP Coating thickness 2 mm	
Surface Protection (Outside)	Enamel	
8. TREATED WATER TANK		
Quantity	1 No.	
Size	2.0m x 2.0m x 2.8m + 0.4m FB	
Capacity	11.2 m3	
MOC of Tanks	Mild Steel	
Thickness of Tanks	5 mm thick	
Surface Protection (Inside)	FRP Coating thickness 2 mm	
Surface Protection (Outside)	Enamel	
9. SLUDGE HOLDING TANK		
Quantity	1 No.	
Size	2.0 m x 2.0m x 2.8m + 0.4m FB	
Capacity	11.2 m3	
MOC of Tanks	Mild Steel	
Thickness of Tanks	5 mm thick	
Surface Protection (Inside)	FRP Coating thickness 2 mm	
Surface Protection (Outside)	Enamel	

	Annexure -VIII	
DESIGN CRITERIA & SPECIFICATION OF EQUIPMENTS CENTRALIZED SEWAGE TREATMENT PLANT - 100 KLD FOR TOILET BLOCK AT NOMAIN STAFF COLONY, KATRA ELECTROMECHANICAL EQUIPMENTS		
1. COARSE SCREEN		
Quantity	1 No.	
Size	0.6m(L)x 0.6m(W)x 0.6 m(H)	
Spacing between bars	25 mm	
MOC	SS 304	
2. FINE SCREEN	-	
Quantity	1 No.	
Size	0.6m(L)x 0.6m(W)x 0.6 m(H)	
Spacing between bars	10mm	
MOC	SS 304	
3. SEWAGE LIFTING PUMPS	-	
Quantity	2 Nos. (1W + 1S)	
Capacity	5.0 m ³ /hr	
Head	12 Mtr	
Partical Size	40 mm	
MOC	CI Casing CI Impeller & CS Shaft	
Type	Submersible	
Protection	FRP Motor Cover	
Make	Kirloskar/CNP/Willo/Lubi	
4. ANOXIC TANK AGITATOR	1	
Quantity	1 No.	
Туре	Central Drived	
MOC	SS 304	
RPM	50	
Make	Fabricated	
5. ROOT AIR BLOWERS FOR EQUALISATION	TION TANK AND SLUDGE HOLDING TANK	
Quantity	2 Nos. (1W + 1S)	
Capacity	150 m ³ /hr	
Head	5000 mm WC	
Туре	Twin Lobe Type	
MOC	CI	
Automation Feature for Root Air Blowers	Timer based Interlocking	
Protection	FRP Motor Cover	
Make	Akash/ Beta / Airvak	
6. MBR MODULE		
Quantity	1 No.	
Capacity	100 m3	
MOC of Frame	PVDF	
Design Flux	30'	
To define A consequent Maria Laboratoria	4001	

490'

Tentative Area per Module

Product water Turbidity	<1 NTU
Membrane	SUBMERGED Reinforced Hollow Fiber
	MBR
Туре	Spiral wound
Make	Qua/Dow/Imemflow/W360
7. MBR ACTUATED VALVE	
Quantity	1 Lot
Size	As required
Туре	Actuated Type
Make	Belimo / Leader / W360
8. MBR CHAIN PULLEY WITH MS SKID	
Quantity	1 No.
Capacity	As per MBR Manufacturer recommendation
9. MBR BACK PULSE PUMPS	
Quantity	1 No. (1W)
Capacity	8 m ³ /hr
Head	20 Mtr
MOC	CI Casing CI Impeller & CS Shaft
Туре	Centrifugal
Protection	FRP Motor Cover
Make	Kirloskar/CNP/Willo/Lubi
10. MBR BACK PULSE TANKS	
Quantity	1 No.
Capacity	500 Ltr
MOC	LDPE
Make	Sintex
11. CHLORINE DOSING SYSTEM	
Quantity	1 Set
	(Pump - 1 No. / Tank - 1 No.)
DOSING PUMP	
Capacity	0 - 12 LPH
MOC	PP
Туре	Metering Dosing Pump
Protection	FRP Motor Cover
Make	Asia LMI / Grundfos
DOSING TANK	
Quantity	1 No.
Capacity	200 ltr
Special Feature	MS Skid Mounted
Make	Sintex
12. ACID DOSING SYSTEM	
Quantity	1 Set
	(Pump - 1 No. / Tank - 1 No.)
DOSING PUMP	

Capacity	0 - 12 LPH	
MOC	PP	
Туре	Metering Dosing Pump	
Protection	FRP Motor Cover	
Make	Asia LMI / Grundfos	
DOSING TANK	•	
Quantity	1 No.	
Capacity	200 ltr	
Special Feature	MS Skid Mounted	
Make	Sintex	
13. COARSE BUBBLE DIFFUSERS		
Quantity	1 Lot	
Size	200 mm Dia	
Туре	Disc	
MOC of Membrane	Silicon	
Make	Techpro / Scozen	
14. FINE BUBBLE DIFFUSERS		
Quantity	1 Lot	
Size	63 mm Dia x 600 mm Long	
Туре	Tubular	
MOC of Membrane	Silicon	
Make Techpro / Scozen		
15. SLUDGE RECIRCULATION PUMPS		
Quantity	2 Nos. (1W + 1S)	
Capacity	15.0 m ³ /hr	
Head	10 M	
MOC	CI Casing CI Impeller & CS Shaft	
Туре	Self Priming Pump	
Protection	FRP Motor Cover	
Make	Kirloskar/CNP/Willo/Lubi	
16. MBR PERMEATE PUMPS		
Quantity	2 Nos. (1W + 1S)	
Capacity	5 m ³ /hr	
Head	25 - 30 m	
MOC	CI Casing CI Impeller & CS Shaft	
Make	Kirloskar/CNP/Willo/Lubi	
17. CHLORINE DOSING SYSTEM		
Quantity	1 Set	
	(Pump - 1 No. / Tank - 1 No.)	
DOSING PUMP		
Capacity	0 - 12 LPH	
MOC	PP	
Туре	Metering Dosing Pump	

Make	Protection	FRP Motor Cover	
Quantity	Make	Asia LMI / Grundfos	
Capacity	DOSING TANK	•	
Special Feature	Quantity	1 No.	
Make Sintex 18. FILTER PRESS FEED PUMPS Quantity 2 Nos. (1W + 1S) Capacity 2 m³/hr Head 40 m MOC CI Casing CI Impeller & CS Shaft Protection FRP Motor Cover Make Kirloskar/CNP/Willo/Lubi 19. FILTER PRESS Quantity 1 No. Capacity 24 x 24 " + 22 Nos Plates MOC CI/MS Make Universal/W360/Pharmatech 20. POLY DOSING SYSTEM Quantity 1 Set (Pump - 1 No. / Tank - 1 No.) DOSING PUMP Capacity 0 - 12 LPH MOC PP Type Metering Dosing Pump Protection FRP Motor Cover Make Asia LMI / Grundfos DOSING TANK Quantity 1 No. Capacity 200 Itr Special Feature MS Kirloski Mounted Make Sintex AGITATOR FOR POLY DOSING TANK Type Central Driven MOC S304 Make Environ 2 Nos. (1W + 1S) Capacity 9 2 Nos. (1W + 1S) Capacity 9 1 No. Capacity 9 2 Nos. (1W + 1S) AGITATOR FOR POLY DOSING TANK Type Central Driven MOC S304 Make Environ 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	Capacity	200 ltr	
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Protection	Head	40 m	
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Capacity 0 - 12 LPH MOC PP Type Metering Dosing Pump Protection FRP Motor Cover Make Asia LMI / Grundfos DOSING TANK Quantity 1 No. Capacity 200 ltr Special Feature MS Skid Mounted Make Sintex AGITATOR FOR POLY DOSING TANK Type Central Driven MOC SS304 Make Environ 21. TREATED WATER TRANSFER PUMPS Quantity 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	Quantity	1 Set (Pump - 1 No. / Tank - 1 No.)	
MOC PP Type Metering Dosing Pump Protection FRP Motor Cover Make Asia LMI / Grundfos DOSING TANK Quantity 1 No. Capacity 200 ltr Special Feature MS Skid Mounted Make Sintex AGITATOR FOR POLY DOSING TANK Type Central Driven MOC SS304 Make Environ 21. TREATED WATER TRANSFER PUMPS Quantity 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	DOSING PUMP	1	
Type Metering Dosing Pump Protection FRP Motor Cover Make Asia LMI / Grundfos DOSING TANK Quantity 1 No. Capacity 200 ltr Special Feature MS Skid Mounted Make Sintex AGITATOR FOR POLY DOSING TANK Type Central Driven MOC SS304 Make Environ 21. TREATED WATER TRANSFER PUMPS Quantity 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	Capacity	0 - 12 LPH	
Protection FRP Motor Cover Make Asia LMI / Grundfos DOSING TANK Quantity 1 No. Capacity 200 ltr Special Feature MS Skid Mounted Make Sintex AGITATOR FOR POLY DOSING TANK Type Central Driven MOC SS304 Make Environ 21. TREATED WATER TRANSFER PUMPS Quantity 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	MOC	PP	
Make Asia LMI / Grundfos DOSING TANK Quantity 1 No. Capacity 200 ltr Special Feature MS Skid Mounted Make Sintex AGITATOR FOR POLY DOSING TANK Type Central Driven MOC SS304 Make Environ 21. TREATED WATER TRANSFER PUMPS Quantity 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	Туре	Metering Dosing Pump	
DOSING TANK Quantity 1 No. Capacity 200 ltr Special Feature MS Skid Mounted Make Sintex AGITATOR FOR POLY DOSING TANK Type Central Driven MOC \$\$304 Make Environ 21. TREATED WATER TRANSFER PUMPS Quantity 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	Protection	FRP Motor Cover	
Quantity 1 No. Capacity 200 ltr Special Feature MS Skid Mounted Make Sintex AGITATOR FOR POLY DOSING TANK Type Central Driven MOC SS304 Make Environ 21. TREATED WATER TRANSFER PUMPS Quantity 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	Make	Asia LMI / Grundfos	
Capacity 200 ltr Special Feature MS Skid Mounted Make Sintex AGITATOR FOR POLY DOSING TANK Type Central Driven MOC SS304 Make Environ 21. TREATED WATER TRANSFER PUMPS Quantity 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	DOSING TANK		
Special Feature MS Skid Mounted Make Sintex AGITATOR FOR POLY DOSING TANK Type Central Driven MOC SS304 Make Environ 21. TREATED WATER TRANSFER PUMPS Quantity 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	Quantity	1 No.	
Make Sintex AGITATOR FOR POLY DOSING TANK Type Central Driven MOC SS304 Make Environ 21. TREATED WATER TRANSFER PUMPS Quantity 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	Capacity	200 ltr	
AGITATOR FOR POLY DOSING TANK Type Central Driven MOC \$\$304 Make Environ 21. TREATED WATER TRANSFER PUMPS Quantity 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	Special Feature	MS Skid Mounted	
Type Central Driven MOC \$\$S304 Make Environ 21. TREATED WATER TRANSFER PUMPS Quantity 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	Make	Sintex	
MOC SS304 Make Environ 21. TREATED WATER TRANSFER PUMPS Quantity 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	AGITATOR FOR POLY DOSING TANK		
MakeEnviron21. TREATED WATER TRANSFER PUMPSQuantity2 Nos. (1W + 1S)Capacity5 m3/hrHead30 MtrProtectionFRP Motor Cover	Туре	Central Driven	
21. TREATED WATER TRANSFER PUMPSQuantity2 Nos. (1W + 1S)Capacity5 m3/hrHead30 MtrProtectionFRP Motor Cover	MOC	SS304	
Quantity 2 Nos. (1W + 1S) Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	Make	Environ	
Capacity 5 m3/hr Head 30 Mtr Protection FRP Motor Cover	21. TREATED WATER TRANSFER PUMPS		
Head 30 Mtr Protection FRP Motor Cover	Quantity	2 Nos. (1W + 1S)	
Protection FRP Motor Cover	Capacity	5 m3/hr	
	Head	30 Mtr	
MOC CI Casing CI Impeller & CS Shaft	Protection	FRP Motor Cover	
	MOC	CI Casing CI Impeller & CS Shaft	

Make	Kirloskar/CNP/Willo/Lubi
22. PLUMBING	
Piping & Valves	uPVC/MS - Epoxy as per requirement
Air Grid in EQT & Aeration	uPVC/
Air Grid in Gardening & Flushing Water Tank	uPVC
23. FLOW METER	
Quantity	2 Nos. (Inlet & Outlet)
Line Size	As per Design
Make	UPC / Forbes Marshall
24. TURBIDITY METER	
Quantity	1 No.
Line Size	As per Design
Make	UPC / Aster / Forbes Marshall
25. ELECTRICALS (ELECTRICAL PANEL)	
DOL / Starters for Dosing Pumps + Float Switch, Energy Meter	
Electrical Wiring & Cable Tray	
Quantity	1 Lot
Make of Control Panel	CPRI Approved vendor with wiring & Cabling from National /Equivalent
Cable Tray MOC	GI Perforated
Automation Feature for Pumps	Through Float type level controller
Automation Feature for root Air Blowers	Timer based Interlocking
26. Designing, Commissioning & Consultancy including Supervision & Management of the Project	