

Vasai Virar Municipal Corporation
Water Supply Department

Name of Work : "Recirculation of Backwash water and sludge handling system inclusive of all Civil works, providing and installation of all Mechanical and Electrical equipment including PLC-SCADA for automation, monitoring & Control followed by 10 years O&M"

Quotation Notice – WS /53/2020-21

Vasai Virar Municipal Corporation has decided to Recycle and Reuse the Backwash water from the Existing Water treatment plant of **240 MLD** (100+140 MLD) at Dhuktanpada. Quotations are being invited for the said work through sealed envelope from the agencies. The quotations should reach the municipal corporation between ~~08/01/2021~~ and ~~13/01/2021~~

Sr. No	Item Description	Unit	Qty	Item Rate (Rs.)
1)	<p>Claritube Flocculator - Design, Supply, Installation, Testing, Commissioning of the unit, the rate shall be including the cost of Civil works as per structural requirements, Electro-Mechanical equipment, pumping machinery, interconnecting piping, process valve actuators, Gates and fittings and storage tanks and Extended warranty for 10 yrs. Warrantee shall also include the specific power consumption and consumables for the O & M of the plant.</p> <p>The Inlet Influent for the Claritube flocculator shall be the backwash water from the WTP.</p> <p>Note: -</p> <ol style="list-style-type: none"> 1. The supernatant from the claritube flocculator will be fed to the inlet of the filter beds. 2. The water quality parameters for backwash water are given in table no. 2 3. Capacity of Recirculation Plant - 7.5 MLD 	LS	1	
2)	<p>Sludge Thickener with Rake Mechanism - Design, Supply, Installation, Testing, Commissioning of the unit, the rate shall be including the cost of Civil works as per structural requirements, Electro-Mechanical equipment, pumping machinery, interconnecting piping, process valve actuators, Gates and fittings and storage tanks and Extended warranty for 10 yrs. Warrantee shall also include the specific power consumption and consumables for the</p>	LS	1	

Sr. No	Item Description	Unit	Qty	Item Rate (Rs.)
	O & M of the plant. Note: Design shall be according to 7.5 MLD recirculation of backwash water			
3)	Sludge Dewatering Mechanism (Centrifuge): - Design, Supply, Installation, Testing, Commissioning of the unit, the rate shall be including the cost of Civil works (G+1 Building) as per structural requirements, Electro-Mechanical equipment, pumping machinery, interconnecting piping, process valve actuators, Gates and fittings and storage tanks and Extended warranty for 10 yrs. Warrantee shall also include the specific power consumption and consumables for the O & M of the plant. Note: Design shall be according to 7.5 MLD recirculation of backwash water	LS	1	
4)	Polydosing System: Design, Supply, Installation, Testing, Commissioning of the unit, the rate shall be including the cost of Civil works as per structural requirements, Electro-Mechanical equipment, pumping machinery, interconnecting piping, process valve actuators, Gates and fittings and storage tanks and Extended warranty for 10 yrs. Warrantee shall also include the specific power consumption and consumables for the O & M of the plant. Note: Design shall be according to 7.5 MLD recirculation of backwash water	LS	1	
5)	Tractors and Trolleys (5 Tonnes)	No.	1	
6)	Operation & maintenance cost of recirculation system of backwash water. (It shall also include the specific power consumption and consumables for the O & M of the plant.)	Per MLD/month		

Backwash Water Quality

The quality parameters for backwash water are as follows:

Public Health Laboratory, India
 Email-ID: ebrthane01@gmail.com Phone No: 25827754
REPORT ON CHEMICAL EXAMINATION OF WATER FOR DRINKING PURPOSES
 Date of Collection :- 11-12-2020 Date of Receipt :- 2-12-2020 Date of Examination :- 2-12-2020 onwards
 (All the Analytical Results are in mg./Litre except pH, Turbidity)

Sr. No.	TEST PARAMETER	(1)	(2)	BIS Specification 10300: 2015 Normal Values	
		Filter Backwash water	2 L.F. Drain Water	Desirable Limits	Permissible Limits
1.	Physical Appearance	Turbid	Clear with suspended particles	---	---
2.	Odour	Obnoxious odour	Obnoxious odour	Agreeable	Agreeable
3.	Turbidity (as N.T.U.)	402.0	83.0	1.0	5.0
4.	pH Value	7.745	7.991	6.5 to 8.5	No Relaxation
5.	Chlorides (as Cl)	22.95	22.95	250	1000
6.	Nitrates (as NO ₃)	0084	0545	45	No Relaxation
7.	Total Hardness (as CaCO ₃)	116.28	112.20	200	600
8.	Alkalinity (as CaCO ₃)	112.0	106.0	200	600
9.	Total Dissolved Solids	227.0	208.0	500	2000
10.	Iron (as Fe)	0.715	0.343	1.0	No Relaxation
11.	Fluoride (as F)	0.590	0.460	1.0	1.5
12.	Other Tests (if any)	---	---		
13.					

Terms and Conditions

1. The contractor/agency shall provide sealed quotation for the technical specification of the said particulars with additional specification as required for the process addressed to the Hon. Executive Engineer, VVCMC from / /2021 to / /2021 till _____
2. The material rates shall be provided including taxes as applicable.
3. The sealed quotation shall include Quotation notice number, name of the work as well as the name of the company/firm providing the quotation.
4. Quotation not fulfilling the specification, late or incomplete shall not be considered.
5. The contractor/Agency shall have to provide necessary documents proving the existence of their firm.
6. The above notice is available on VVCMC website.

Vasai Virar City Municipal Corporation
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Executive Engineer
Water Supply Department
Vasai Virar City Municipal Corporation

Note: - The required site visit/inspections shall be carried out by the vendor/supplier, before providing the Techno-Commercial Offer. Only informative assistance shall be provided by VVCMC officials.