

ISSUED TO

**MUMBAI WASTE MANAGEMENT LTD
(A DIVISION OF RAMKY ENVIRO ENGINEERS LTD)
PLOT NO.P-32, BEHIND GALAXY SURFACTANTS
MIDC TALOJA
PANVEL TALUKA, RAIGAD DISTRICT
MAHARASHTRA 410 208**

Report Number : VLL/VLS/23/04717/BMW/EW/001
Issue Date : 2023.07.03
P.O. Ref : 0400090719
P.O. Date : 2022.09.08

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Sample Name : Waste Water (ETP OUTLET WATER)

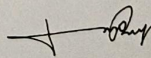
Sample Collection Date	: 2023.06.14	Sample Registration Date	: 2023.06.16
Sample Received Date	: 2023.06.16	Analysis Completion Date	: 2023.06.30
Sample Analysis date	: 2023.06.16	Received Quantity	: 1 Litres
Method of Testing	: As per APHA 23 rd Edition, IS: 3025. Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (Agilent)		
Test Required	: As per Work Order		
Samples Coded	: ETP OUTLET WATER		
Samples Collected by Vimta Labs Limited.			

TEST REPORT

Sl No.	PARAMETER	UOM	ETP Outlet	Limit
1	pH	---	8.29	5.5-9.0
2	Colour	Hazen	7	--
3	Conductivity	µS/cm	7245	--
4	Turbidity	NTU	53	5-25
5	Total Suspended Solids @ 105°C	mg/L	76	100
6	Total Dissolved Solids @ 180°C	mg/L	2050	2100
7	Total Organic Carbon	mg/L	3.16	--
8	Chemical Oxygen Demand	mg/L	230	250
9	Bio Chemical Oxygen Demand for 3 day 27°C	mg/l	26	30
10	Dissolved Oxygen	mg/L	4.7	--
11	Cyanide	mg/L	<0.02	0.2
12	Fluoride as F	mg/L	1.9	2.0
13	Chloride as cl	mg/L	3168	--
14	Nitrates as NO ₃	mg/L	43.2	--
15	Sulphates as SO ₄	mg/L	1326	--
16	Total Kjeldahl Nitrogen	mg/L	82.4	100
17	Total Alkalinity as CaCO ₃	mg/L	890	--
18	Total Hardness as CaCO ₃	mg/L	2636	--
19	Total Pesticides	mg/L	Absent	--
20	Calcium as Ca	mg/L	684.5	--
21	Magnesium as Mg	mg/L	224.8	--
22	Dissolved Phosphate	mg/L	4.13	5.0
23	Sodium as Na	mg/L	2789	--
24	Potassium as K	mg/L	86	--
25	Oil & Grease	mg/l	4.97	10
26	Manganese as Mn	mg/L	0.14	2.0
27	Arsenic as As	mg/L	<0.01	0.2
28	Lead as Pb	mg/L	<0.01	0.1
29	Cadmium as Cd	mg/L	0.04	2.0
30	Copper as Cu	mg/L	0.12	3.0
31	Zinc as Zn	mg/L	3.89	5.0
32	Chromium as Cr	mg/L	0.04	2.0
33	Mercury as Hg	mg/L	<0.001	0.01
34	Nickel as Ni	mg/L	0.01	3.0
35	Iron as Fe	mg/L	2.97	3.0

Remarks: Results relate only to the sample tested.

○ END OF THE TEST REPORT -


Dr. Subba Reddy Mallampatti
Manager-Environment

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Driven by Quality. Inspired by Science.

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Sample Name : Bio Assay Test of ETP OUTLET WATER

Sample Collection Date	: 2023.06.14	Sample Registration Date	: 2023.06.16
Sample Received Date	: 2023.06.16	Analysis Completion Date	: 2023.06.30
Sample Analysis date	: 2023.06.16	Received Quantity	: 5 Litres
Samples Collected by Vimta Labs Limited.			

TEST REPORT

% Conc. [v/v]	No of Fish	Mortality Record				Symptoms of Toxicity	Standard
		Time in hours					
		24	48	72	96		
No of Fish	10	0	0	0	0	No Symptoms of Toxicity is Observed	90% Survival of fish after s96 Hours in 100% effluent
Test (100 %)	100	0	0	0	0		

Remarks:

1. Method of Testing: As per IS: 6582-1971 (Reapproved 1992)
2. Fish species: *Puntius sophore* (Fresh water minor caro) size:2.5 to 3.0 cm Quality of sample pH: 8.21 and DO: 4.7 mg/L
3. Survival of fish at 100% concentration of treated effluent after 96 hours of exposure is 100%

Dr. Subba Reddy Mallampatti
Manager-Environment