

**Vimta Labs Limited**

Registered Office  
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Driven by Quality. Inspired by Science.

**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/4/12209/BMW/EW/001  
**Issue Date** : 2024.10.04  
**P.O. Ref** : 400115208  
**P.O. Date** : 2024.08.22

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**Sample Name** : **Waste Water (ETP OUTLET WATER)**

|  |   |                          |              |
|--|---|--------------------------|--------------|
| Sample Collection Date                   | : 2024.09.21  | Sample Registration Date | : 2024.09.25 |
| Sample Received Date                     | : 2024.09.25  | Analysis Completion Date | : 2024.10.03 |
| Sample Analysis date                     | : 2024.09.26  | Received Quantity        | : 1 Liters   |
| Method of Testing                        | : As per APHA 23 <sup>rd</sup> Edition, IS: 3025.<br>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  | ---   | 7.65       | 5.5-9.0 |
| 2      | Colour                                    | Hazen | 6          | --      |
| 3      | Conductivity                              | µS/cm | 5725       | --      |
| 4      | Turbidity                                 | NTU   | 23         | 5-25    |
| 5      | Total Suspended Solids @ 105°C            | mg/L  | 59         | 100     |
| 6      | Total Dissolved Solids @ 180°C            | mg/L  | 1989       | 2100    |
| 7      | Total Organic Carbon                      | mg/L  | 2.32       | --      |
| 8      | Chemical Oxygen Demand                    | mg/L  | 230        | 250     |
| 9      | Bio Chemical Oxygen Demand for 3 day 27°C | mg/l  | 70         | 30      |
| 10     | Dissolved Oxygen as DO                    | mg/L  | 4.2        | --      |
| 11     | Cyanide as CN                             | mg/L  | <0.02      | 0.2     |
| 12     | Fluoride as F                             | mg/L  | 1.2        | 2.0     |
| 13     | Chloride as Cl                            | mg/L  | 3152       | --      |
| 14     | Nitrates as NO <sub>3</sub>               | mg/L  | 40.2       | --      |
| 15     | Sulphates as SO <sub>4</sub>              | mg/L  | 1562       | --      |
| 16     | Total Kjeldahl Nitrogen                   | mg/L  | 65.2       | 100     |
| 17     | Total Alkalinity as CaCO <sub>3</sub>     | mg/L  | 840        | --      |
| 18     | Total Hardness as CaCO <sub>3</sub>       | mg/L  | 2422       | --      |
| 19     | Total Pesticides                          | mg/L  | Absent     | --      |
| 20     | Calcium as Ca                             | mg/L  | 478.5      | --      |
| 21     | Magnesium as Mg                           | mg/L  | 295.3      | --      |
| 22     | Dissolved Phosphate                       | mg/L  | 2.36       | 5.0     |
| 23     | Sodium as Na                              | mg/L  | 3238       | --      |
| 24     | Potassium as K                            | mg/L  | 76         | --      |
| 25     | Oil & Grease                              | mg/l  | 4.0        | 10      |
| 26     | Manganese as Mn                           | mg/L  | 0.06       | 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  | 0.01       | 2.0     |
| 30     | Copper as Cu                              | mg/L  | 0.32       | 3.0     |
| 31     | Zinc as Zn                                | mg/L  | 3.25       | 5.0     |
| 32     | Chromium as Cr                            | mg/L  | 0.02       | 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  | 2.15       | 3.0     |

Remarks: Results relate only to the sample tested.

**Dr. Subba Reddy Mallampatti**  
**Manager-Environment**

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**Sample Name** : **Bio Assay Test of ETP OUTLET WATER**

|  |              |                          |              |
|--|--------------|--------------------------|--------------|
| Sample Collection Date                   | : 2024.09.21 | Sample Registration Date | : 2024.09.25 |
| Sample Received Date                     | : 2024.09.25 | Analysis Completion Date | : 2024.10.04 |
| Sample Analysis date                     | : 2024.09.26 | Received Quantity        | : 5 Liters   |
| 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  |                                     |  |
| Test (100 %)  | 100        | 0                | 0  | 0  | 0  | No Symptoms of Toxicity is Observed | 90% Survival of fish after 96 Hours in 100% effluent |

**Remarks:**

- Method of Testing: As per IS: 6582-1971(Reapproved 1992)
- Fish species: *Puntius sophore* (Fresh water minor caro) size:2.5 to 3.0 cm Quality of sample pH: 7.32 and DO: 4.6 mg/L
- Survival of fish at 100% concentration of treated effluent after 96 hours of exposure is 100%

--END OF THE TEST REPORT --

**Dr. Subba Reddy Mallampatti  
 Manager-Environment**