



# ENVIRONMENTAL LABORATORY

## (UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory  
Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

### TEST REPORT

Name of the Client : M/s. Vedanta Limited  
Name of the Project : Block I - Bicholim Mineral Block  
Bicholim, Bordem, Lamgao, Mulgao, Mayem & Sirigao villages, Bicholim Taluka, North Goa  
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)  
Particular of Sample Collecte : EDW1 - 1 Top Discharge (Bicholim Dhabdabha),  
EDW2 - 2 Top Discharge (Lamgao), EDW3 - 5 Top Discharge (Mulgao)  
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)  
Date of sampling : 09.10.2024  
Issue Date : 29.10.2024

Sample Code		EDW1	EDW2	EDW3	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
Sl. No.	Lab Code	N/24/10/3-0170	N/24/10/3-0171	N/24/10/3-0172		
Parameters		Results				
1	Colour (Hazen Units),	5	5	5	--	IS:3025(P-4)2021
2	pH	6.93	5.40	5.70	5.5-9.0	IS 3025 (P-11) 2022
3	Turbidity,NTU	18	34.0	22	--	IS:3025 (P-10) 1984 RA 2017
4	Electrical Conductivity (µmhos/cm)	70	46	38	--	IS 3025 (P-14)
5	Total Dissolved Solids (TDS) mg/l	38	26	20	--	IS 3025(P- 16)02022
6	Total Suspended Solids, mg/l	20.0	36.0	24	Non Rainy Day 50, Rainy Day 100	IS 3025 (P-17) 2022
7	Chlorides (as Cl), mg/l	12	11	9	1000	IS 3025 (P-32) 1988 RA 2019
8	Total Hardness (as CaCO <sub>3</sub> ),mg/l	18	10	10	--	IS:3025 (P-21) 2009 RA 2019
9	Calcium (as Ca),mg/l,	4.0	2.4	2.4	--	IS:3025 (P-40)1991 RA 2019
10	Magnesium (as Mg) mg/l,	1.94	1	1	--	IS 3025 (P-2) 2019
11	Sulphates (as SO <sub>4</sub> ) mg/l	5	<1.0	<1.0	1000	IS 3025 (P-24) Sec 1 2022
12	Nitrates (as NO <sub>3</sub> ),mg/l	<1	<1	<1	--	IS:3025 (P-34) Sec 1 2023
13	BOD [3 days at 27°C] mg/l	1.8	1.22	1.1	30	IS 3025 (P-44) 2014
14	COD, mg/l	12	8	6	250	IS 3025 (P-58) 2006 RA 2022
15	Iron (as Fe), mg/l	0.013	0.006	0.005	3	IS 3025 (P-2) 2019
16	Manganese (as Mn), mg/l	<0.001	<0.001	<0.001	2	IS 3025 (P-2) 2019
17	Dissolved Oxygen (as O <sub>2</sub> ), mg/l, Max	5.5	5.6	5.6	Min 4	IS:3025(Part-38)1989RA 2019
18	Oil & Grease, mg/l	<1.0	<1.0	<1.0	10	IS 3025 (P-39) 2021

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Govt. Analyst / Authorised Signatory

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