



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 Collected	: 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	: 09.07.2024
Issue Date	: 17.07.2024

Sample Code	EDW1	EDW2	EDW3	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing	
Sl. No.	Lab Code	N/24/07/2-0086	N/24/07/2-0087	N/24/07/2-0088	Results	
	Parameters					
1	Colour (Hazen Units),	<1	<1	<1	--	IS:3025(P-4)2021
2	pH	6.84	6.59	6.57	5.5-9.0	IS 3025 (P-11) 2022
3	Turbidity, NTU	3.2	0.8	2.6	--	IS:3025 (P-10) 1984 RA 2017
4	Electrical Conductivity (µmhos/cm)	1130	560	810	--	IS 3025 (P-14)
5	Total Dissolved Solids (TDS) mg/l	860	364	503	--	IS 3025(P- 16)02022
6	Total Suspended Solids, mg/l	45	12	8	Non Rainy Day 50, Rainy Day 100	IS 3025 (P-17) 2022
7	Chlorides (as Cl), mg/l	160	60.83	192.79	1000	IS 3025 (P-32) 1988 RA 2019
8	Total Hardness (as CaCO ₃), mg/l	380	220	480	--	IS:3025 (P-21) 2009 RA 2019
9	Calcium (as Ca), mg/l,	116.23	60.12	118.55	--	IS:3025 (P-40)1991 RA 2019
10	Magnesium (as Mg) mg/l,	21.87	17.01	44.62	--	IS 3025 (P-2) 2019
11	Sulphates (as SO ₄) mg/l	15.3	18.4	86.5	1000	IS 3025 (P-24) Sec 1 2022
12	Nitrates (as NO ₃), mg/l	10.8	2.16	12.1	--	IS:3025 (P-34) Sec 1 2023
13	BOD [3 days at 27°C] mg/l	4.86	3.82	4.15	30	IS 3025 (P-44) 2014
14	COD, mg/l	36	28	36	250	IS 3025 (P-58) 2006 RA 2022
15	Iron (as Fe), mg/l	0.012	0.008	0.01	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 ₂), mg/l, Max	5.3	5.2	5.2	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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