



# 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

Table No. 10

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	: 24.05.2024
Issue Date	: 14.06.2024
Ref	: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016

SI. No.	Sample Code	EDW1	EDW2	EDW3	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
		Lab Code	Lab Code	Lab Code		
	Parameters	Results				
1	Colour (Hazen Units),	1	<1	1	--	IS:3025(P-4)2021
2	pH	6.83	5.90	6.82	5.5-9.0	IS 3025 (P-11) 2022
3	Turbidity,NTU	1.8	1.4	3.4	--	IS:3025 (P-10) 1984 RA 2017
4	Electrical Conductivity (µmhos/cm)	110.8	62.3	40.6	--	IS 3025 (P-14)
5	Total Dissolved Solids (TDS) mg/l	78	38	28	--	IS 3025(P- 16)02022
6	Total Suspended Solids, mg/l	<5.0	<5.0	<5.0	Non Rainy Day 50, Rainy Day 100	IS 3025 (P-17) 2022
7	Chlorides (as Cl), mg/l	20.4	18.6	16.6	1000	IS 3025 (P-32) 1988 RA 2019
8	Total Hardness (as CaCO <sub>3</sub> ),mg/l	26	14	16	--	IS:3025 (P-21) 2009 RA 2019
9	Calcium (as Ca),mg/l,	5.6	3.5	4.0	--	IS:3025 (P-40)1991 RA 2019
10	Magnesium (as Mg) mg/l,	2.91	1.46	1.45	--	IS 3025 (P-2) 2019
11	Sulphates (as SO <sub>4</sub> ) mg/l	2.6	1.6	1.8	1000	IS 3025 (P-24) Sec 1 2022
12	Nitrates (as NO <sub>3</sub> ),mg/l	0.12	0.33	0.32	--	IS:3025 (P-34) Sec 1 2023
13	BOD [3 days at 27°C] mg/l	<3.0	<3.0	<3	30	IS 3025 (P-44) 2014
14	COD, mg/l	<5.0	<5.0	<5	250	IS 3025 (P-58) 2006 RA 2022
15	Iron (as Fe), mg/l	0.036	0.052	0.036	3	IS 3025 (P-2) 2019
16	Manganese (as Mn), mg/l	0.006	0.08	0.005	2	IS 3025 (P-2) 2019
17	Dissolved Oxygen (as O <sub>2</sub> ), mg/l, Max	5.8	5.9	5.9	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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Note : This report is subject to the terms and conditions mentioned overleaf.

