



Nilawar Laboratories
(A Unit of MNEC Consultants Pvt. Ltd)

NABL ACCREDITED LAB VIDE - TC-9782
CIN No. U74140MH112009PTC196108



TEST REPORT

Project Name & Address	: Urtan North Coal Field, Taluka – Kotma, District – Anuppur (MP)		
Customer Name & Address	: JMS Mining Pvt. Ltd., Kolkata		
Contact Details	: 9822438061	Customer Reference	: --
Test Report No	: NL/WATER/875	Sampling Date	: 06/02/2024 to 07/02/2024
Sample Received On	: 08/02/2024	Report Issue Date	: 28/02/2024
Sample ID.	: NL-0433/MAR24/WA-11to WA-16	Date of Test Start	: 08/02/2024
Sampling Plan Ref.	: As per Work Order	Date of Test complete	: 15/02/2024
Sampling Method Ref.	: APHA 24 th Edition	Sample Description	: Surface Water Sample
Sampling By	: Lab	ULR No.	: TC97822400000553F
Environmental Condition at the time of Sampling	: Avg. Temperature : 30.3 °C Avg. Humidity : 56 % Weather condition : Sunny	Environmental Condition at the time of Testing	: Temp. : 25.0 °C : Humidity : 45 %
Sample Quantity Received	: General Parameters – 2 liter PVC Bottle 06 samples, Metals – 250 ml PVC Bottles 06 samples, Oil & Grease – 1 liter glass bottle 06 samples.		

I. Chemical Testing
III. Water

DESCRIPTION LIST SURFACE WATER SAMPLES

Sr. No.	Lab Sample Code	Client Sample code	Location	Lat.	Long.
				(Northing)	(Easting)
1	WA-11	UN-SW 1	Nawatola Pond	23°14.739' N	81°59.626' E
2	WA-12	UN-SW 2	Baskhala Pond	23°16.25' N	81°59.468' E
3	WA-13	UN-SW 3	Chaudhar Nala	23°15.142' N	82°01.85' E
4	WA-14	UN-SW-4	Kewai River Near Pathrundi Village	23°15.437' N	82°02.615' E
5	WA-15	UN-SW-5	Lamatola Bandh	23°16.872' N	81°59.318' E
6	WA-16	UN-SW-6	Kewai River Near Parichua Village	23°12.778' N	82°01.922' E



Off. : First Floor, 'Pratibha Sankul', Beside Alankar Cinema, Dharampeth, Nagpur - 10. Ph. : +91-712-2542261, 2542291, E-mail : nilawarlabs@gmail.com
Laboratory : At Km 16.5, Nilawar Motors Complex, Amravati Road, Waddhamna, Nagpur - 440 023. Mob. : +91-9922409055, 9552550955



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TEST RESULT

Sr. No.	Parameters	Units	Result						Test Method Used	Surface Water Quality Standards as Per IS 2296 (Class C)
	Client sample Code	UN-SW-1	UN-SW-2	UN-SW-3	UN-SW-4	UN-SW-5	UN-SW-6			
	Lab Sample Code	WA-11	WA-12	WA-13	WA-14	WA-15	WA-16			
Physical Parameter										
1	Colour	Hazen	3.1	2.2	2.5	1.4	4.1	1.9	IS 3025 (Part 4)	300
2	Odour	-	UO	UO	UO	UO	UO	UO	IS 3025 (Part 5)	-
3	Taste	-	UO	UO	UO	UO	UO	UO	IS 3025 (Part 8)	-
4	Turbidity	NTU	7.4	1.5	0.9	0.5	0.4	1.2	IS 3025 (Part 10)	-
5	pH at 25 0C	-	7.09	7.85	7.43	7.88	8.02	7.96	IS 3025 (Part 11)	8.5
Inorganic Parameters										
6	Electrical Conductivity	µS/cm	412	358	298	378	212	326	IS 3025 (Part 14)	-
7	Total Dissolved Solids	mg/l	248	220	188	234	136	202	IS 3025 (Part 16)	1500
8	Total Suspended Solids	mg/l	8.8	8.1	9.4	11.2	5.8	22.2	IS 3025 (Part 17)	-
9	Total Alkalinity as CaCO3	mg/l	102	82	85	65	58	72	IS 3025 (Part 23)	-
10	Total Hardness as CaCO3	mg/l	128	92	154	86	102	96	IS 3025 (Part 21)	-
11	Calcium Hardness as CaCO3	mg/l	59	52	88	35	48	38	IS 3025 (Part 21)	-
12	Calcium as Ca ⁺⁺	mg/l	23.6	20.8	35.2	14.0	19.2	15.2	IS 3025 (Part 40)	-
13	Magnesium as Mg ⁺⁺	mg/l	16.6	9.6	15.8	12.2	13.0	13.9	IS 3025 (Part 46)	-
14	Sodium as Na	mg/l	7.05	12.2	14.8	6.3	8.18	6.22	IS 3025 (Part 45)	-
15	Potassium as K	mg/l	0.89	2.25	1.28	0.98	2.14	2.32	IS 3025 (Part 45)	-
16	Chlorides as Cl	mg/l	36.8	29.2	18.8	25.4	16.2	20.4	IS 3025 (Part 32)	600
17	Sulphates as SO4	mg/l	22.1	24.2	21.3	30.9	35.6	25.8	APHA 24 th Edition	400
18	Nitrates as NO3	mg/l	1.38	6.23	4.17	3.690	1.050	0.898	APHA 24 th Edition	50
19	Fluoride as F	mg/l	0.24	0.21	0.22	0.17	0.23	0.31	APHA 24 th Edition	1.5
20	Dissolved Oxygen	mg/l	6.2	5.6	5.8	6.8	6.4	6.6	IS 3025 (Part 38)	4
Pollutants										



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Sr. No.	Parameters	Units	Result						Test Method Used	Surface Water Quality Standards as Per IS 2296 (Class C)
			UN-SW-1	UN-SW-2	UN-SW-3	UN-SW-4	UN-SW-5	UN-SW-6		
			WA-11	WA-12	WA-13	WA-14	WA-15	WA-16		
21	Amonical Nitrogen as NH3-N	mg/l	0.487	1.859	0.522	0.963	1.852	1.602	IS 3025 (Part34)	-
22	Nitrite Nitrogen as NO2-N	mg/l	0.039	0.034	0.015	0.288	0.185	0.062	IS 3025 (Part34)	-
23	Total Phosphate as PO4-P	mg/l	0.185	0.215	0.203	0.614	0.205	0.048	IS 3025 (Part 31)	-
24	Anioonic Detergent	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 68)	1
25	Total Oil & Grease	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 39)	0.1
26	B O D 3 days 27 °C	mg/l	3.6	2.6	2.0	2.2	2.8	1.9	IS 3025 (Part 44)	3
27	C O D	mg/l	20.8	32.6	22.2	10.6	30.4	10.4	IS 3025 (Part 58)	-
Trace Metals										
28	Aluminium as Al	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 55)	-
29	Arsenic as As	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 37)	0.2
30	Boron as B	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 37)	-
31	Cadmium as Cd	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 41)	0.01
32	Chromium as Cr6+	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 52)	0.05
33	Copper as Cu	mg/l	0.019	0.023	0.027	0.016	0.018	0.022	IS 3025 (Part 42)	1.5
34	Iron as Fe	mg/l	0.169	0.208	0.241	0.236	0.485	0.202	IS 3025 (Part 53)	50
35	Lead as Pb	mg/l	BDL	BDL	BDL	BDL	BDL	0.063	IS 3025 (Part 47)	0.1
36	Manganese as Mn	mg/l	0.019	0.015	0.013	BDL	0.045	0.032	APHA 24 th Edition	0.5
37	Mercury as Hg	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 48)	0.001
38	Zinc as Zn	mg/l	0.047	0.144	0.0388	0.025	0.988	0.401	IS 3025 (Part 49)	15
39	Nickel as Ni	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 54)	-

For M/s Nilawar Laboratories,

Checked By,

Dinesh Bangadkar
(Authorized Signatory)

Nikita Bhange
(Chemist)

Note -

1. This report should not be reproduced wholly or in part and not to be used as evidence in any court of law.
2. The results listed referred to the tested samples and applicable parameters only.
3. Our liability is limited to the commercial value of the test/tests carried out.
4. NR-No Relaxation, AG-Agreeable; NA- Not Applicable; BDL- Below Detection Limit.

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