

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



TEST REPORT

Project Name & Address	: Urtan Coal Field, Taluka – Kotma, District – Anuppur (MP)							
Customer Name & Address	: JMS Mining Pvt. Ltd., Kolkata							
Contact Details	: 9822438061	: 9822438061						
Test Report No	: NL/WATER/879	NL/WATER/879 Sampling Date : 06/02/2024 to 07/02/20						
Sample Received On	: 08/02/2024	Report Issue Date	: 28/02/2024					
Sample ID.	: NL-0433/MAR24/WA-07to WA-10	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	: Ground Water Sample						
Sampling By	: Lab	ULR No.	: TC978224000000552F					
Environmental Condition at the time of Sampling	: Avg. Temperature : 29.9 °C Avg. Humidity : 55 %	Environmental Condition at the time of	: Temp. : 25.0 °C					
the time of Sampling	Weather condition: Sunny	Testing	: Humidity : 45 %					
Sample Quantity Received	: General Parameters – 2 liter PVC Bottle 04 samples, Metals – 250 ml PVC Bottles 04 samples, Oil & Grease – 1 liter glass bottle 04 samples.							

1. Chemical Testing III. Water

DESCRIPTION LIST GROUND WATER SAMPLES

Sr. No.	Lab Sample	Client Sample	Location	Lat.	Long.	
Sr. No. Code code	Location	(Northing)	(Easting)			
1	WA-07	U-GW-1	Thoda Village Hand Pump	23°14.912"N	81°59.498"E	
2	WA-08	U-GW-2	Dug Well Baskhali Village	23°14.975'N	081°59.837'E	
3	WA-09	U-GW-3	Pairichua Village Hand Pump	23°13.733' N	82°00.695' E	
4	WA 10		Teliyantola Village Hand			
4	WA-10	U-GW-4	Pump	23°17.537' N	81°59.367' E	







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TEST RESULT

Sr.	Parameters	IInita	Result				Test	As Per IS 10500:2012	
No.	rarameters	Units		Ke	esuit		Method USed	Acceptable	Permissible
Clien	t sample Code		U GW-1	U GW-2	U GW-3	U GW-4			
Lab s	sample code		WA-07	WA-08	WA-09	WA-10			
Physi	cal Parameters								
1	Colour	Hazen	2.9	2.2	1.9	3.9	IS 3025 (Part 4)	5	15
2	Odour	-	AG	AG	AG	AG	IS 3025 (Part 5)	Agreeable	Agreeable
3	Taste	-	AG	AG	AG	AG	IS 3025 (Part 8)	Agreeable	Agreeable
4	Turbidity	NTU	0.6	0.5	0.8	0.9	IS 3025 (Part 10)	1	5
5	pH at 25 0C	-	7.15	7.32	7.88	7.29	IS 3025 (Part 11)	6.5-8.5	No Relaxation
Inorg	anic Parameters								
6	Electrical Conductivity	μS/cm	416	386	692	348	IS 3025 (Part 14)	-	-
7	Total Dissolved Solids	mg/l	256	238	426	220	IS 3025 (Part 16)	500	2000
8	Total Suspended Solids	mg/l	15.2	14.8	8.6	4.2	IS 3025 (Part 17)	-	-
9	Total Alkalinity as CaCO3	mg/l	105	96	108	132	IS 3025 (Part 23)	200	600
10	Total Hardness as CaCO3	mg/l	144	132	168	184	IS 3025 (Part 21)	200	600
11	Calcium Hardness as CaCO3	mg/l	78	94	102	112	IS 3025 (Part 21)	-	-
12	Calcium as Ca++	mg/l	31.2	37.6	40.8	44.8	IS 3025 (Part 40)	75	200
13	Magnesium as Mg++	mg/l	15.8	9.1	15.8	17.3	IS 3025 (Part 46)	30	100
14	Sodium as Na	mg/l	14.52	19.22	16.36	65.93	IS 3025 (Part 45)	-	-
15	Potassium as K	mg/l	7.24	10.02	3.89	39.62	IS 3025 (Part 45)	-	-
16	Chlorides as Cl	mg/l	56.3	38.4	19.3	54.8	IS 3025 (Part 32)	250	1000







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Sr.	Parameters	Tim:4a	Result				Test Method	As Per IS 10500:2012	
No.	rarameters	Units		K	esuit		USed	Acceptable	Permissible
Clien	t sample Code		U GW-1	U GW-2	U GW-3	U GW-4			
Labs	sample code		WA-07	WA-08	WA-09	WA-10			
17	Sulphates as SO4	mg/l	18.6	30.85	14.23	152.31	APHA 24 th Edition	200	400
18	Nitrates as NO3	mg/l	3.124	10.324	5.422	1.625	APHA 24 th Edition	45	No Relaxation+
19	Fluoride as F	mg/l	0.26	0.18	0.37	0.61	APHA 24 th Edition	1	1.5
Pollu	tants								
20	Amonical Nitrogen as NH3-N	mg/l	0.241	0.187	0.049	0.146	IS 3025 (Part34)	0.5	No Relaxation
21	Nitrite Nitrogen as NO2-N	mg/l	0.09	BDL	BDL	0.017	IS 3025 (Part34)	-	-
22	Total Phosphate as PO4-P	mg/l	BDL	BDL	BDL	0.089	IS 3025 (Part 31)	-	-
23	Total Oil & Grease	mg/l	BDL	BDL	BDL	BDL	IS 3025 (Part 39)	0.5	No Relaxation
Trace	e Metals								
24	Aluminium as Al	mg/l	BDL	BDL	BDL	BDL	IS 3025 (Part 55)	0.03	0.2
25	Arsenic as As	mg/l	BDL	BDL	BDL	BDL	IS 3025 (Part 37)	0.01	0.05
26	Boron as B	mg/l	BDL	BDL	BDL	BDL	IS 3025 (Part 37)	0.5	1
27	Cadmium as Cd	mg/l	BDL	BDL	BDL	BDL	IS 3025 (Part 41)	0.003	No Relaxation
28	Chromium as Cr6+	mg/l	BDL	BDL	BDL	BDL	IS 3025 (Part 52)	0.05	No Relaxation
29	Copper as Cu	mg/l	0.034	0.022	0.015	0.026	IS 3025 (Part 42)	0.05	1.5
30	Iron as Fe	mg/l	0.185	0.138	0.211	0.209	IS 3025 (Part 53)	0.3	No Relaxation
31	Lead as Pb	mg/l	BDL	BDL	BDL	BDL	IS 3025 (Part 47)	0.01	No Relaxation
32	Manganese as Mn	mg/l	0.071	BDL	0.082	BDL	APHA 24 th Edition	0.1	0.3
33	Mercury as Hg	mg/l	BDL	BDL	BDL	BDL	IS 3025 (Part 48)	0.001	No Relaxation







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Sr.	Parameters	Units	Result				Test Method	As Per IS 10500:2012	
No.	Tarameters	Omts		K	suit		USed	Acceptable	Permissible
Clien	Client sample Code		U GW-1	U GW-2	U GW-3	U GW-4			
Lab sample code			WA-07	WA-08	WA-09	WA-10			
34	Zinc as Zn	mg/l	0.196	0.245	0.495	0.405	IS 3025 (Part 49)	5	15
35	Nickel as Ni	mg/l	BDL	BDL	BDL	BDL	IS 3025 (Part 54)	0.02	No Relaxation

For M/s Nilawar Laboratories,

DIR LABOR NAGPUR P

Dinesh Bangadkar (Authorized Signatory)

Checked By,

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.

-----End of Report-----







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