



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

Annexure: 6

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 Private Limited, Dongfang Electric Building 3 rd Floor, Premises 16, MAR – 1111, Action Area 1A, Newtown,		
Contact Details	: 9822438061	Customer Reference	: --
Test Report No	: NL/WATER/195	Sampling Date	: 09/06/2024 to 10/06/2024
Sample Received On	: 11/06/2024	Report Issue Date	: 26/06/2024
Sample ID.	: NL-0102/JUN24/WA-07to WA-10	Date of Test Start	: 11/06/2024
Sampling Plan Ref.	: As per Work Order	Date of Test complete	: 18/06/2024
Sampling Method Ref.	: APHA 24 th Edition	Sample Description	: Ground Water Sample
Sampling By	: Lab	ULR No.	: TC978224000001124F
Environmental Condition at the time of Sampling	: Avg. Temperature : 32.9 °C Avg. Humidity : 45.4 % Weather condition : Sunny	Environmental Condition at the time of Testing (as required parameters)	: Temp. : 24.9 °C : Humidity : 43 %
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 Code	Client Sample code	Location	Lat.	Long.
				(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	U-GW-4	Teliyantola Village Hand Pump	23°17.537' N	81°59.367' 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

➤ Soil Testing for all types of Foundation Designs. ➤ Chemical Analysis of Soil & Water ➤ Mechanical Analysis of Soil & Rock

Page 22 of 25 Micro-biological Analysis of Soil & Water ➤ Testing of Construction Material ➤ Environment Consultants ➤ Environment Monitoring & Analysis



TEST RESULT

Sr. No.	Parameters	Units	Result				Test Method Used	As Per IS 10500:2012	
								Acceptable	Permissible
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			
Physical Parameters									
1	Colour	Hazen	3	2	2	4	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	1.2	1.2	1.3	2.2	IS 3025 (Part 10)	1	5
5	pH at 25 OC	-	7.19	7.41	7.62	7.52	IS 3025 (Part 11)	6.5-8.5	No Relaxation
Inorganic Parameters									
6	Electrical Conductivity	µS/cm	563	446	744	522	IS 3025 (Part 14)	-	-
7	Total Dissolved Solids	mg/l	342	272	452	318	IS 3025 (Part 16)	500	2000
8	Total Suspended Solids	mg/l	14.2	10.2	10.2	6.3	IS 3025 (Part 17)	-	-
9	Total Alkalinity as CaCO ₃	mg/l	168	114	134	182	IS 3025 (Part 23)	200	600
10	Total Hardness as CaCO ₃	mg/l	192	153	202	236	IS 3025 (Part 21)	200	600
11	Calcium Hardness as CaCO ₃	mg/l	112	102	114	138	IS 3025 (Part 21)	-	-
12	Calcium as Ca ⁺⁺	mg/l	44.8	40.8	45.6	55.2	IS 3025 (Part 40)	75	200
13	Magnesium as Mg ⁺⁺	mg/l	19.2	12.2	21.1	23.5	IS 3025 (Part 46)	30	100
14	Sodium as Na	mg/l	16.2	20.5	18.5	57.41	IS 3025 (Part 45)	-	-
15	Potassium as K	mg/l	10.2	8.16	5.21	29.25	IS 3025 (Part 45)	-	-
16	Chlorides as Cl	mg/l	82.9	52.6	35.6	88.9	IS 3025 (Part 32)	250	1000





Sr. No.	Parameters	Units	Result				Test Method Used	As Per IS 10500:2012	
								Acceptable	Permissible
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			
17	Sulphates as SO ₄	mg/l	20.2	38.2	20.5	114.3	APHA 24 th Edition	200	400
18	Nitrates as NO ₃	mg/l	1.956	8.151	5.639	2.125	APHA 24 th Edition	45	No Relaxation+
19	Fluoride as F	mg/l	0.39	0.23	0.45	0.84	APHA 24 th Edition	1	1.5
Pollutants									
20	Amonical Nitrogen as NH ₃ -N	mg/l	0.123	0.209	0.084	0.196	IS 3025 (Part34)	0.5	No Relaxation
21	Nitrite Nitrogen as NO ₂ -N	mg/l	0.039	BDL	0.024	0.036	IS 3025 (Part34)	-	-
22	Total Phosphate as PO ₄ -P	mg/l	0.025	BDL	0.047	0.104	IS 3025 (Part 31)	-	-
23	Total Oil & Grease	mg/l	BDL	BDL	BDL	BDL	IS 3025 (Part 39)	0.5	No Relaxation
Trace 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 Cr ⁶⁺	mg/l	BDL	BDL	BDL	BDL	IS 3025 (Part 52)	0.05	No Relaxation
29	Copper as Cu	mg/l	0.022	0.063	0.036	0.058	IS 3025 (Part 42)	0.05	1.5
30	Iron as Fe	mg/l	0.069	0.157	0.258	0.311	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	0.069	BDL	0.074	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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								Acceptable	Permissible
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	1.252	0.284	0.635	0.496	IS 3025 (Part 49)	5	15
35	Nickel as Ni	mg/l	BDL	BDL	BDL	BDL	IS 3025 (Part 54)	0.02	No Relaxation
<i>NR - no relaxation, AG - agreeable; NA- not applicable; BDL-below detection limit</i>									

For M/s Nilawar Laboratories,




Dinesh Bangadkar
(Authorized Signatory)

- 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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TEST RESULT

Sr. No.	Parameters	Units	Result				Test Method Used	As Per IS 10500:2012	
								Acceptable	Permissible
Client sample Code			U GW-1	U GW-2	U GW-3	U GW-4			
Lab sample code			WA-01	WA-02	WA-03	WA-04			
Physical Parameters									
1	Ambient Temperature	°C	28.3	28.4	28.2	28.6	IS 3025 part 9	-	-
Pollutants									
24	Cyanide as CN	mg/l	BDL	BDL	BDL	BDL	IS 3025 (Part 27)	0.05	No Relaxation
25	Phenolic Compounds	mg/l	BDL	BDL	BDL	BDL	IS 3025 (Part 43)	0.001	0.002
27	Pesticides	mg/l	Absent	Absent	Absent	Absent	APHA 24 th Edition	See Table 5.0	No Relaxation
28	Poly Nuclear Hydrocarbon(PAH)	mg/l	BDL	BDL	BDL	BDL	APHA 24 th Edition	0.0001	NO Relaxation
Microbiology									
41	Total coliform	CFU/100 ml	Absent	Absent	Absent	Absent	IS 15185 : 2016	Shall Not Be Detectable in any 100 ml Sample	

For M/s Nilawar Laboratories,




Dinesh Bangadkar
(Authorized Signatory)

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