



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

## Annexure: 8

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



### TEST REPORT

<b>Project Name &amp; Address</b>	: Urtan North Coal Field, Taluka – Kotma, District – Anuppur (MP)		
<b>Customer Name &amp; Address</b>	: JMS Mining Private Limited, Dongfang Electric Building 3 <sup>rd</sup> Floor, Premises 16, MAR – 1111, Action Area 1A, Newtown,		
<b>Contact Details</b>	: 9822438061	<b>Customer Reference</b>	: --
<b>Test Report No</b>	: NL/WATER/200	<b>Sampling Date</b>	: 09/06/2024 to 10/06/2024
<b>Sample Received On</b>	: 11/06/2024	<b>Report Issue Date</b>	: 26/06/2024
<b>Sample ID.</b>	: NL-0102/JUN24/WA-01to WA-06	<b>Date of Test Start</b>	: 11/06/2024
<b>Sampling Plan Ref.</b>	: As per Work Order	<b>Date of Test complete</b>	: 18/06/2024
<b>Sampling Method Ref.</b>	: APHA 24 <sup>th</sup> Edition	<b>Sample Description</b>	: Ground Water Sample
<b>Sampling By</b>	: Lab	<b>ULR No.</b>	: TC978224000001123F
<b>Environmental Condition at the time of Sampling</b>	: Avg. Temperature : 32.9 °C	<b>Environmental Condition at the time of Testing (as required parameters)</b>	: Temp. : 24.9 °C
	: Avg. Humidity : 45.4 %		: Humidity : 43 %
<b>Weather condition</b>	: Sunny		
<b>Sample Quantity Received</b>	: General Parameters – 2 liter PVC Bottle 06 samples, Metals – 250 ml PVC Bottles 06 samples, Oil & Grease – 1 liter glass bottle 06 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-01	UN-GW-1	Thoda Village Hand Pump	23°14.912"N	81°59.498"E
2	WA-02	UN-GW-2	Mauhari Village Hand Pump	23°16.04' N	82° 0.423' E
3	WA-03	UN-GW-3	Baskhala Village Dug Well	23°16.283' N	81°59.724' E
4	WA-04	UN-GW-4	Murdhoha Village Hand Pump	23°16.415' N	81°58.394' E
5	WA-05	UN-GW-5	Pathraundi Village Hand Pump	23°16.431' N	82°01.893' E
6	WA-06	UN-GW-6	Manmari Village Hand Pump	23°13.787' N	82°59.807'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



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

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



**TEST RESULT**

Sr. No.	Parameters	Units	Result						Test Method Used	As Per IS 10500:2012	
			UN GW-1	UN GW-2	UN GW-3	UN GW-4	UN GW-5	UN GW-6		Acceptable	Permissible
<b>Client sample Code</b>											
<b>Lab sample code</b>			<b>WA-01</b>	<b>WA-02</b>	<b>WA-03</b>	<b>WA-04</b>	<b>WA-05</b>	<b>WA-06</b>			
<b>Physical Parameters</b>											
1	Colour	Hazen	3	3	4	3	2	3	IS 3025 (Part 4)	5	15
2	Odour	-	AG	AG	AG	AG	AG	AG	IS 3025 (Part 5)	Agreeable	Agreeable
3	Taste	-	AG	AG	AG	AG	AG	AG	IS 3025 (Part 8)	Agreeable	Agreeable
4	Turbidity	NTU	1.2	2.2	1.6	1.5	2.2	2	IS 3025 (Part 10)	1	5
5	pH at 25 0C	-	7.19	7.25	7.42	7.63	7.45	7.35	IS 3025 (Part 11)	6.5-8.5	No Relaxation
<b>Inorganic Parameters</b>											
6	Electrical Conductivity	µS/cm	563	618	788	692	915	492	IS 3025 (Part 14)	-	-
7	Total Dissolved Solids	mg/l	342	375	478	422	556	302	IS 3025 (Part 16)	500	2000
8	Total Suspended Solids	mg/l	14.2	6.3	5.9	10.8	16.2	12.4	IS 3025 (Part 17)	-	-
9	Total Alkalinity as CaCO <sub>3</sub>	mg/l	168	114	202	128	216	122	IS 3025 (Part 23)	200	600
10	Total Hardness as CaCO <sub>3</sub>	mg/l	192	156	242	162	254	148	IS 3025 (Part 21)	200	600
11	Calcium Hardness as CaCO <sub>3</sub>	mg/l	112	92	142	132	174	96	IS 3025 (Part 21)	-	-
12	Calcium as Ca <sup>++</sup>	mg/l	44.8	36.8	56.8	52.8	69.6	38.4	IS 3025 (Part 40)	75	200
13	Magnesium as Mg <sup>++</sup>	mg/l	19.2	15.4	24.0	7.2	19.2	12.5	IS 3025 (Part 46)	30	100
14	Sodium as Na	mg/l	16.2	22.2	15.6	12.3	15.4	14.8	IS 3025 (Part 45)	-	-
15	Potassium as K	mg/l	10.2	6.3	5.9	4.2	5.8	4.6	IS 3025 (Part 45)	-	-
16	Chlorides as Cl	mg/l	82.9	65.8	80.2	95.8	30.6	34.2	IS 3025 (Part 32)	250	1000



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



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

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



Sr. No.	Parameters	Units	Result						Test Method Used	As Per IS 10500:2012	
			UN GW-1	UN GW-2	UN GW-3	UN GW-4	UN GW-5	UN GW-6		Acceptable	Permissible
<b>Client sample Code</b>											
<b>Lab sample code</b>			<b>WA-01</b>	<b>WA-02</b>	<b>WA-03</b>	<b>WA-04</b>	<b>WA-05</b>	<b>WA-06</b>			
17	Sulphates as SO <sub>4</sub>	mg/l	20.2	36.9	95.8	60.2	102.6	19.6	APHA 24 <sup>th</sup> Edition	200	400
18	Nitrates as NO <sub>3</sub>	mg/l	1.956	6.125	5.231	5.418	10.325	9.124	APHA 24 <sup>th</sup> Edition	45	No Relaxation+
19	Fluoride as F	mg/l	0.39	0.28	0.59	0.28	0.37	0.41	APHA 24 <sup>th</sup> Edition	1	1.5
<b>Pollutants</b>											
20	Amonical Nitrogen as NH <sub>3</sub> -N	mg/l	0.123	0.168	0.241	0.171	0.163	0.128	IS 3025 (Part34)	0.5	No Relaxation
21	Nitrite Nitrogen as NO <sub>2</sub> -N	mg/l	0.039	0.324	0.158	0.117	0.034	0.041	IS 3025 (Part34)	-	-
22	Total Phosphate as PO <sub>4</sub> -P	mg/l	0.025	0.042	0.054	0.027	0.062	0.034	IS 3025 (Part 31)	-	-
23	Total Oil & Grease	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 39)	0.5	No Relaxation
<b>Trace Metals</b>											
24	Aluminium as Al	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 55)	0.03	0.2
25	Arsenic as As	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 37)	0.01	0.05
26	Boron as B	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 37)	0.5	1
27	Cadmium as Cd	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 41)	0.003	No Relaxation
28	Chromium as Cr <sup>6+</sup>	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 52)	0.05	No Relaxation
29	Copper as Cu	mg/l	0.022	0.013	0.024	0.036	0.014	0.023	IS 3025 (Part 42)	0.05	1.5
30	Iron as Fe	mg/l	0.069	0.044	0.017	0.036	0.041	0.055	IS 3025 (Part 53)	0.3	No Relaxation
31	Lead as Pb	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 47)	0.01	No Relaxation
32	Manganese as Mn	mg/l	0.069	0.034	0.052	0.071	0.026	0.069	APHA 24 <sup>th</sup> Edition	0.1	0.3
33	Mercury as Hg	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 48)	0.001	No Relaxation



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



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

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



Sr. No.	Parameters	Units	Result						Test Method Used	As Per IS 10500:2012	
										Acceptable	Permissible
Client sample Code			UN GW-1	UN GW-2	UN GW-3	UN GW-4	UN GW-5	UN GW-6			
Lab sample code			WA-01	WA-02	WA-03	WA-04	WA-05	WA-06			
34	Zinc as Zn	mg/l	1.252	1.165	0.395	0.622	0.502	0.901	IS 3025 (Part 49)	5	15
35	Nickel as Ni	mg/l	BDL	BDL	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**-----



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



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

**ISO 9001:2015**  
**ISO 14001:2015**  
**ISO 45001:2018**

**CIN No. U74140MH112009PTC196108**

**TEST RESULT**

Sr. No.	Parameters	Units	Result						Test Method Used	As Per IS 10500:2012	
			UN GW-1	UN GW-2	UN GW-3	UN GW-4	UN GW-5	UN GW-6		Acceptable	Permissible
<b>Client sample Code</b>			UN GW-1	UN GW-2	UN GW-3	UN GW-4	UN GW-5	UN GW-6			
<b>Lab sample code</b>			WA-01	WA-02	WA-03	WA-04	WA-05	WA-06			
<b>Physical Parameters</b>											
1	Ambient Temperature	°C	28.3	28.2	27.9	28.5	28.4	28.3	IS 3025 part 9	-	-
<b>Pollutants</b>											
24	Cyanide as CN	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 27)	0.05	No Relaxation
25	Phenolic Compounds	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 43)	0.001	0.002
27	Pesticides	mg/l	Absent	Absent	Absent	Absent	Absent	Absent	APHA 24 <sup>th</sup> Edition	See Table 5.0	No Relaxation
28	Poly Nuclear Hydrocarbon(PAH)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	APHA 24 <sup>th</sup> Edition	0.0001	NO Relaxation
<b>Microbiology</b>											
41	Coliform	CFU/100 ml	Absent	Absent	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)**

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**-----



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