



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

## Annexure: 9A

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/199	<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-11to WA-16	<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>	: Surface Water Sample
<b>Sampling By</b>	: Lab	<b>ULR No.</b>	: TC978224000001125F
<b>Environmental Condition at the time of Sampling</b>	: Avg. Temperature : 32.9 °C Avg. Humidity : 45.4 % Weather condition : Sunny	<b>Environmental Condition at the time of Testing (as required parameters)</b>	: Temp. : 24.9 °C
			: Humidity : 43 %
<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 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



**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	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		
<b>Physical Parameter</b>										
1	Colour	Hazen	3.0	3.0	3.0	2.0	4.0	2.0	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	6.2	2.5	1.8	2.3	2.1	1.8	IS 3025 (Part 10)	-
5	pH at 25 0C	-	7.15	7.56	7.82	7.41	7.81	7.66	IS 3025 (Part 11)	8.5
<b>Inorganic Parameters</b>										
6	Electrical Conductivity	µS/cm	612	455	366	502	395	485	IS 3025 (Part 14)	-
7	Total Dissolved Solids	mg/l	374	280	228	309	242	296	IS 3025 (Part 16)	1500
8	Total Suspended Solids	mg/l	10.1	10.2	8.8	12.3	7.5	17.5	IS 3025 (Part 17)	-
9	Total Alkalinity as CaCO3	mg/l	114	98	118	103	74	95	IS 3025 (Part 23)	-
10	Total Hardness as CaCO3	mg/l	146	122	184	114	128	118	IS 3025 (Part 21)	-
11	Calcium Hardness as CaCO3	mg/l	75	53	95	42	63	52	IS 3025 (Part 21)	-
12	Calcium as Ca <sup>++</sup>	mg/l	30.0	21.2	38.0	16.8	25.2	20.8	IS 3025 (Part 40)	-
13	Magnesium as Mg <sup>++</sup>	mg/l	17.0	16.6	21.4	17.3	15.6	15.8	IS 3025 (Part 46)	-
14	Sodium as Na	mg/l	10.5	17.2	20.6	16.2	10.8	9.2	IS 3025 (Part 45)	-
15	Potassium as K	mg/l	1.52	3.04	1.58	0.87	2.55	3.16	IS 3025 (Part 45)	-
16	Chlorides as Cl	mg/l	52.8	39.2	42.1	35.9	26.8	30.4	IS 3025 (Part 32)	600
17	Sulphates as SO4	mg/l	36.6	30.2	35.9	33.5	41.8	29.2	APHA 24 <sup>th</sup> Edition	400
18	Nitrates as NO3	mg/l	3.125	5.269	6.395	2.960	2.250	1.458	APHA 24 <sup>th</sup> Edition	50
19	Fluoride as F	mg/l	0.32	0.19	0.34	0.22	0.39	0.44	APHA 24 <sup>th</sup> Edition	1.5
20	Dissolved Oxygen	mg/l	5.8	5.2	5.8	6.2	5.8	6.4	IS 3025 (Part 38)	4
<b>Pollutants</b>										



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	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		
21	Amonical Nitrogen as NH3-N	mg/l	0.492	0.963	0.602	0.714	0.823	0.629	IS 3025 (Part34)	-
22	Nitrite Nitrogen as NO2-N	mg/l	0.069	0.058	0.032	0.358	0.311	0.125	IS 3025 (Part34)	-
23	Total Phosphate as PO4-P	mg/l	0.206	0.314	0.306	0.522	0.316	0.092	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	4.7	3.6	2.8	2.4	3.0	2.2	IS 3025 (Part 44)	3
27	C O D	mg/l	40	30	30	20.0	30	20	IS 3025 (Part 58)	-
<b>Trace Metals</b>										
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 <sup>th</sup> 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)	-

**NR - no relaxation, AG - agreeable; NA- not applicable; BDL-below detection limit**

For M/s Nilawar Laboratories,

  


**Dinesh Bangadkar**

**Authorized Signatory**

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



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, Wardhanna, Nagpur - 440 023. Mob.: +91-9922409055, 9552550955

**End of Report**



**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	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		
<b>Physical Parameter</b>										
1	Ambient Temperature	<sup>0</sup> C	28.9	28.8	28.7	28.8	28.6	28.9	IS 3025 part 9	-
<b>Pollutants</b>										
2	Cyanide as CN	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 27)	0.05
3	Phenolic Compounds	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025 (Part 43)	0.005
4	Pesticides	mg/l	Absent	Absent	Absent	Absent	Absent	Absent	APHA 24 <sup>th</sup> Edition	-
5	Poly Nuclear Hydrocarbon(PAH)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	APHA 24 <sup>th</sup> Edition	-
<b>Microbiology</b>										
6	Coliform	CFU/100 ml	6 x 10 <sup>2</sup>	11 x 10 <sup>2</sup>	14 x 10 <sup>2</sup>	8 x 10 <sup>2</sup>	7 x 10 <sup>2</sup>	4 x 10 <sup>2</sup>	IS 15185 : 2016	5000

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

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

Page 14 of 18 Micro-biological Analysis of Soil & Water ➤ Testing of Construction Material ➤ Environment Consultants ➤ Environment Monitoring & Analysis