



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

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TEST REPORT

Report No. : A/2631
Job Identification. : ULR-TC502518400000911
Date : 02-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 22-12-2018
Date of Test : 22-12-2018 to 02-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Pur Village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	8.5	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	310	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	16.07	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	215.93	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	31.5	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.76	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	81.04	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	7.7	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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TEST REPORT

Report No. : A/2630
Job Identification. : ULR-TC502518400000910
Date : 02-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 18-12-2018
Date of Sample Receipt : 22-12-2018
Date of Test : 22-12-2018 to 02-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Dariba Village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL (<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	230	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.28	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.16	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL(<20)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	207.86	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	26.97	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	6.5	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	70.64	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m ³]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m ³]	2.6	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Purari 

Rajesh 



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TEST REPORT

Report No. : A/2632
Job Identification. : ULR-TC502518400000912
Date : 02-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 22-12-2018
Date of Test : 22-12-2018 to 02-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Kanoli Village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL (<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	140	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.04	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	12.61	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL(<20)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	168.29	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	26.78	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	5.17	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	62.24	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m ³]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m ³]	2.2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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TEST REPORT

Report No. : A/2634
Job Identification. : ULR-TC502518400000914
Date : 02-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 22-12-2018
Date of Test : 22-12-2018 to 02-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Gandhisagar Park

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	7.9	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	280	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.57	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	225.86	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	29.3	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.94	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	79.14	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	3.4	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Rajendra
Rajan Mal Yogi

Raiesh Maheshwan



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TEST REPORT

Report No. : A/2633
Job Identification. : ULR-TC502518400000913
Date : 02-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 21-12-2018
Date of Sample Receipt : 22-12-2018
Date of Test : 22-12-2018 to 02-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Near PMS Building

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	10.8	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	270	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	16.55	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL(<20)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	232.67	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	43.34	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	8.01	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	85.11	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m ³]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m ³]	4.7	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal Yogi
Puran Mal Yogi

Rajesh Bhatnagar
Rajesh Bhatnagar



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TEST REPORT

Report No. : A/2635
Job Identification. : ULR-TC502518400000915
Date : 02-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 18-12-2018
Date of Sample Receipt : 22-12-2018
Date of Test : 22-12-2018 to 02-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Mines Workshop

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	13.5	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	310	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.19	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.65	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	218.78	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	43.36	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.85	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	77.8	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	4.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Purnan Mal Yogi

Rajesh Maheshwan




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TEST REPORT

Report No: A/2670
Date: 02-01-2019
Issued to: M/s. Jindal Saw Limited (dhedwas mines)
Dhedwas Iron Ore Copper & Associate Minerals mines
Araji No.9697/6711, Near Tiranga Hills, Village -Pur,
District Bhilwara 311802 (Rajasthan)
Type of Unit: mines
Type of Monitoring: Ambient Air Quality Monitoring
Date of Sample Collection/ Monitoring: 06/12/2018
Date of Receipt: 10/12/2018
Date of Test: 10/12/2018 to 15/12/2018
Sample Collected By: Parsaram Kudi
Point of Collection: Near Tiranga Pit

RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Carbon Monoxide [microgram/m ³]	410	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m ³]	16.54	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m ³]	254	IS 5182 (Part 4) : 1999 Reaffirmed 2012	-
4.	Particulate Matter (PM2.5) [microgram/m ³]	31.26	CPCB Guidelines	60.00
5..	Sulphur Dioxide [microgram/m ³]	7.67	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6.	Particulate Matter (PM10) [microgram/m ³]	75.19	IS 5182 (Part 23) Reaffirmed 2012	100.00

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Purnan Lal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No A/2670)



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TEST REPORT

Report No: A/2668
Date: 02-01-2019
Issued to: M/s. Jindal Saw Limited (dhedwas mines)
Dhedwas Iron Ore Copper & Associate Minerals mines
Araji No.9697/6711, Near Tirnga Hills, Village -Pur,
District Bhilwara 311802 (Rajasthan)
mines
Type of Unit: mines
Type of Monitoring: Ambient Air Quality Monitoring
Date of Sample Collection/ Monitoring: 05/12/2018
Date of Receipt: 10/12/2018
Date of Test: 10/12/2018 to 15/12/2018
Sample Collected By: Parsaram Kudi
Point of Collection: Samodi Village

RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Carbon Monoxide [microgram/m ³]	180	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m ³]	13.5	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m ³]	184	IS 5182 (Part 4) : 1999 Reaffirmed 2012	-
4.	Particulate Matter (PM2.5) [microgram/m ³]	23.56	CPCB Guidelines	60.00
5.	Sulphur Dioxide [microgram/m ³]	6.20	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6.	Particulate Matter (PM10) [microgram/m ³]	61.62	IS 5182 (Part 23) Reaffirmed 2012	100.00

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No A/2668)



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TEST REPORT

Report No: A/2669
Date: 02-01-2019
Issued to: M/s. Jindal Saw Limited (dhedwas mines)
Dhedwas Iron Ore Copper & Associate Minerals mines
Araji No.9697/6711, Near Tirnga Hills, Village -Pur,
District Bhilwara 311802 (Rajasthan)
Type of Unit: mines
Type of Monitoring: Ambient Air Quality Monitoring
Date of Sample Collection/ Monitoring: 05/12/2018
Date of Receipt: 10/12/2018
Date of Test: 10/12/2018 to 15/12/2018
Sample Collected By: Parsaram Kudi
Point of Collection: Near Suras Pit

RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Carbon Monoxide [microgram/m ³]	350	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m ³]	16.4	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m ³]	263	IS 5182 (Part 4) : 1999 Reaffirmed 2012	-
4.	Particulate Matter (PM2.5) [microgram/m ³]	32.65	CPCB Guidelines	60.00
5..	Sulphur Dioxide [microgram/m ³]	7.44	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6.	Particulate Matter (PM10) [microgram/m ³]	78.85	IS 5182 (Part 23) Reaffirmed 2012	100.00

Notes: -

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Purnan Mishra
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No A/2669)



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TEST REPORT

Report No: A/2667
Date: 02-01-2019
Issued to: M/s. Jindal Saw Limited (dhedwas mines)
Dhedwas Iron Ore Copper & Associate Minerals mines
Araji No.9697/6711, Near Tirnga Hills, Village -Pur,
District Bhilwara 311802 (Rajasthan)
mines
Type of Unit: mines
Type of Monitoring: Ambient Air Quality Monitoring
Date of Sample Collection/ Monitoring: 05/12/2018
Date of Receipt: 10/12/2018
Date of Test: 10/12/2018 to 15/12/2018
Sample Collected By: Parsaram Kudi
Point of Collection: Near Dhulkhera Pit

RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Carbon Monoxide [microgram/m ³]	350	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m ³]	15.28	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m ³]	261	IS 5182 (Part 4) : 1999 Reaffirmed 2012	-
4.	Particulate Matter (PM2.5) [microgram/m ³]	33.25	CPCB Guidelines	60.00
5.	Sulphur Dioxide [microgram/m ³]	7.47	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6.	Particulate Matter (PM10) [microgram/m ³]	78.40	IS 5182 (Part 23) Reaffirmed 2012	100.00

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Purni Mal Yogi
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Authorized Signatory
(Report No A/2667)



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TEST REPORT

Report No. : A/2626
Job Identification. : ULR-TC502518400000906
Date : 02-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 17-12-2018
Date of Sample Receipt : 22-12-2018
Date of Test : 22-12-2018 to 02-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Near Tiranga Pit [25°19.526" N 074°32.326"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	9.6	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	280	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m3]	12.63	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	207.82	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m3]	34.35	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.35	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m3]	72.56	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	3.2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Rajeshwar

Rajeshwar



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TEST REPORT

Report No. : A/2629
Job Identification. : ULR-TC502518400000909
Date : 02-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 17-12-2018
Date of Sample Receipt : 22-12-2018
Date of Test : 22-12-2018 to 02-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Samodi Village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	240	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.57	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	189.06	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	23.04	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	4.78	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	77.53	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	2.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes >

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Puran Mal Yogi
Puran Mal Yogi

Rajesh Maheshwari
Rajesh Maheshwari



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TEST REPORT

Report No. : A/2628
Job Identification. : ULR-TC502518400000908
Date : 02-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 17-12-2018
Date of Sample Receipt : 22-12-2018
Date of Test : 22-12-2018 to 02-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Suras Pit [25*23.402

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	8.1	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	250	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.16	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.5	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	132.6	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	28.82	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.56	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	75.4	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	3.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran Mal Yogi


Rajesh Mishra



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TEST REPORT

Report No. : A/2627
Job Identification. : ULR-TC502518400000907
Date : 02-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 21-12-2018
Date of Sample Receipt : 22-12-2018
Date of Test : 22-12-2018 to 02-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Dhulkhera Pit [25°23.878

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	8.6	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	270	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	17.69	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	302.31	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	35.59	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	9.33	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	87.88	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	3.8	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Sitaram Jangid

Rajesh Jaiswal



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TC-5025

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TEST REPORT

Report No. : W/NABL/1806
Job Identification : ULR-TC502518100000641
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 09-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Pur Village (Near Balaji Mandir)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.83	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	550	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	471.49	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1789	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	148	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	43.74	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	301.25	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	34.2	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.84	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	400	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.39	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984 RA 2014	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	370	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/1806)



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TEST REPORT

Report No. : W/1806
Job Identification. : ULR-TC50251810000641
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 09-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Pur Village (Near Balaji Mandir)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/1806)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1810
Job Identification. : ULR-TC502518100000645
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 18-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 10-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Dariba Village (Govt. Tubewell Water-Aruvedic Dispansary)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.41	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	544	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	150.88	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	967	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	166.4	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	31.1	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	202.50	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	BDL(<1)	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.48	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	312	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.43	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984 RA 2014	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	416	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	-	-

Notes :-

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Wanshan
Rajesh Wanshan
Authorized Signatory
(Report No: W/NABL/1810)



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TEST REPORT

Report No. : W/1810
Job Identification. : ULR-TC502518100000645
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village ; Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 18-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 10-01-2019
Sample Collected By : Sitaram Jangid
Point of Collection : Dariba Village (Govt. Tubewell Water-Aruvedic Dispansary)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/1810)



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TEST REPORT

Report No. : W/NABL/1809
Job Identification. : ULR-TC502518100000644
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 10-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Kanoli Village (Govt.Handpump water of Govt. Middle school)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	8.04	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	244	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	28.29	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	331	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	57.6	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	24.3	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	25.37	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	4.73	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.44	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	192	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.40	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984 RA 2014	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	144	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-

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Puran Mai Yogi
Puran Mai Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/1809)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/1809
Job Identification. : ULR-TC502518100000644
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 10-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Kanoli Village (Govt.Handpump water of Govt. Middle school)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: W/1809)



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TEST REPORT

Report No. : W/NABL/1808
Job Identification. : ULR-TC502518100000643
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 09-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Gandhisagar village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.59	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	324	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	201.8	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1153	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	65.6	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	38.88	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	190	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	37.50	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.65	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	250	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.41	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984 RA 2014	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	164	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-

Notes :-

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/1808)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

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TEST REPORT

Report No. : W/1808
Job Identification. : ULR-TC502518100000643
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 09-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Gandhisagar village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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Purni Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/1808)



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TEST REPORT

Report No. : W/NABL/1805
Job Identification. : ULR-TC502518100000640
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 09-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Suras Village (Govt. Handpump Near Palki Rani Ka Mandir)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.33	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	560	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	212.17	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	979	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	160	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	38.88	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	61.50	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	21.34	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.44	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	280	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.41	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984 RA 2014	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	400	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1805)



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TEST REPORT

Report No. : W/1805
Job Identification. : ULR-TC502518100000640
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 09-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Suras Village (Govt. Handpump Near Palki Rani Ka Mandir)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Malhotra

Authorized Signatory
(Report No: W/1805)



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TEST REPORT

Report No. : W/NABL/1804
Job Identification : ULR-TC502518100000639
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 09-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Dhulkhera Village (Near NH 75)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.16	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	540	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	150.88	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	979	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	168	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	29.16	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	88.75	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	28.57	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.49	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	300	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.42	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984 RA 2014	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	420	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-

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Puran Mal Yogi
Puran Mal Yogi
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Rajesh Maheshwan
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(Report No: W/NABL/1804)



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TEST REPORT

Report No. : W/1804
Job Identification. : ULR-TC502518100000639
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 09-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Dhulkhera Village (Near NH 75)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Purnan Mal Yogi
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(Report No: W/1804)



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TEST REPORT

Report No. : W/NABL/1807
Job Identification : ULR-TC502518100000642
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 17-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 09-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Samodi Village (Bheel Basti Near Govt. Handpump front Ratan Lal Yadav Plot)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.61	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	544	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	150.88	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	888	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	148.8	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	41.8	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	191.25	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	9.12	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.48	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	316	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	-
23	Boron [mg/l]	0.44	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984 RA 2014	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

Note:

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E-mail : director@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
34	Calcium Hardness [mg/l]	372	IS 3025 (Part 40) : 1991 RA 2014	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mai Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/1807)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/1807
Job Identification. : ULR-TC502518100000642
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 17-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 09-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Samodi Village (Bheel Basti Near Govt. Handpump front Ratan Lal
Yadav Plot)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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Purni Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/1807)



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TEST REPORT

Report No. : W/NABL/1851
Job Identification. : ULR-TC502518100000701
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 10-01-2019
Sample Collected By : Sitaram Jangid
Point of Collection : Piezometer Well No. 1

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.50	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	550	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	178	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1256	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	124	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	58.32	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	187.42	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	16.4	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.87	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(< 0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	300	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.36	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	310	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.
- # Parameters No. 36 & 37 are not in NABL Scope

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1851)



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TEST REPORT

Report No. : W/NABL/1812
Job Identification. : ULR-TC502518100000646
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 10-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Piezometer Well No. 2 (Plant Gate No.6)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.48	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	490	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	198.02	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1609	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	140	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	34.02	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	162.50	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	34.7	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.9	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(< 0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	380	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.40	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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Ph.: 94602-22039, 94602-22049

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	350	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.
- # Parameters No. 36 & 37 are not in NABL Scope

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Puran Mal Yogi
Senior Analyst

Raj
Rajesh Maheshwar
Authorized Signatory
(Report No: W/NABL/1852)



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TEST REPORT

Report No. : W/NABL/1852
Job Identification. : ULR-TC502518100000702
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 10-01-2019
Sample Collected By : Sitaram Jangid
Point of Collection : Piezometer Well No. 3 (Suras Mine)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.16	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	250	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	152.3	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	877	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	56	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	24.3	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	85	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	7.10	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.47	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(< 0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	230	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.35	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

Note:

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Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.
Ph.: 94602-22039, 94602-22049

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	140	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.
- # Parameters No. 36 & 37 are not in NABL Scope

Puran
Puran Mai Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1852)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1813
Job Identification. : ULR-TC502518100000647
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 10-01-2019
Sample Collected By : Sitaram Jangid
Point of Collection : Piezometer Well No. 4 (Suras Mine)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.99	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	260	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	169.73	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	877	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	68.8	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	21.38	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	145	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	BDL(<1)	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.14	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(< 0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	162	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.39	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	172	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.
- # Parameters No. 36 & 37 are not in NABL Scope

Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/1813)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1814
 Job Identification. : ULR-TC502518100000648
 Date : 10-01-2019
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
 Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
 District-Bhilwara 311802 (Rajasthan)
 Type of Unit : Mines
 Type of Sample : Potable and Domestic Water
 Date of Sample Collection/Monitoring : 19-12-2018
 Date of Sample Receipt : 24-12-2018
 Date of Test : 24-12-2018 to 10-01-2019
 Sample Collected By : Sitaram Jangid
 Point of Collection : Piezometer Well No. 5

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.78	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	470	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	282.89	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1692	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	136	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	31.59	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	231.87	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	1.40	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	1.15	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(< 0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	248	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.38	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	340	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.
- # Parameters No. 36 & 37 are not in NABL Scope

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
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Authorized Signatory
(Report No: W/NABL/1814)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1815
Job Identification. : ULR-TC502518100000649
Date : 10-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 10-01-2019
Sample Collected By : Sitaram Jangid
Point of Collection : Piezometer Well No. 6 (Dhulkhera mine)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.20	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	580	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	330.04	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1593	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	128	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	63.18	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	267.50	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	30.2	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	1.13	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(< 0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	408	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.41	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	320	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.
- # Parameters No. 36 & 37 are not in NABL Scope

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1815)



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TEST REPORT

Report No. : W/NABL/1816
Job Identification. : ULR-TC502518100000650
Date : 11-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 11-01-2019
Sample Collected By : Sitaram Jangid
Point of Collection : Piezometer Well No. 7

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.98	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	560	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	205.57	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1050	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	156	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	41.31	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	142.50	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	12.05	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.97	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(< 0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	208	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.43	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	390	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.
- # Parameters No. 36 & 37 are not in NABL Scope

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Puran Maurya
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Rajesh
Rajesh Maheshwan
Authorized Signatory
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TEST REPORT

Report No. : W/NABL/1817
Job Identification. : ULR-TC502518100000651
Date : 11-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 11-01-2019
Sample Collected By : Sitaram Jangid
Point of Collection : Piezometer Well No. 8

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.34	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	250	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	145.22	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1004	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	76	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	14.58	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	80.75	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	14.55	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.84	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(< 0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	168	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.41	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	190	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.
- # Parameters No. 36 & 37 are not in NABL Scope


Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1817)



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TEST REPORT

Report No. : W/NABL/1824
Job Identification. : TC502518100000656
Date : 15-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Surface Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 15-01-2019
Sample Collected By : Sitaram Jangid
Point of Collection : Meja Dam

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984
5	pH	8.02	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	110	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	41.2	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	310	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	28	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	9.72	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	20.75	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	2.97	IS 3025 (Part 34) : 1988

Note:

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RESULTS

S.No.	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.37	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	90	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.32	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Suspended Solids [mg/l]	36	IS 3025 (part 15) : 1984
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992
35	Calcium Hardness [mg/l]	70	IS 3025 (Part 40) : 1991
36	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
37	Pesticides [mg/l]	Not Detected	APHA : 2012
38	Nickel [mg/l]	BDL(<0.01)	APHA : 2012 :3111B

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Senior Analyst

Rajesh Maheshwari
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(Report No: W/NABL/1824)



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TEST REPORT

Report No. : W/NABL/1848
Job Identification. : TC502518100000657
Date : 19-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Surface Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 10-01-2019
Sample Collected By : Sitaram Jangid
Point of Collection : Samodi Pond

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.44	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	130	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	36.2	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	256	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	32	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	12.10	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	30.4	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	8.50	IS 3025 (Part 34) : 1988

Note:

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Testing Protocol : testingprotocol@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.40	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	60	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.35	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Suspended Solids [mg/l]	38	IS 3025 (part 15) : 1984
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992
35	Calcium Hardness [mg/l]	80	IS 3025 (Part 40) : 1991
36	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
37	Pesticides [mg/l]	Not Detected	APHA : 2012
38	Nickel [mg/l]	BDL(<0.01)	APHA : 2012 :3111B

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1848)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1823
Job Identification. : TC502518100000655
Date : 15-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajli No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Surface Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 15-01-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Kothari River

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.89	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	240	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	86.5	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	487	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	76	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	12.15	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	90	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	31.93	IS 3025 (Part 34) : 1988

Note:

Continue to next page...

Parsa



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Ph.: 94602-22039, 94602-22049

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.70	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	130	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.34	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Suspended Solids [mg/l]	28	IS 3025 (part 15) : 1984
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992
35	Calcium Hardness [mg/l]	190	IS 3025 (Part 40) : 1991
36	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B
37	Pesticides [mg/l]	Not Detected	APHA : 2017
38	Nickel [mg/l]	BDL(<0.01)	APHA : 2017 :3111B

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1823)



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Report No

: WW/NABL/1068

Job Identification

: URL-TC502518200000358

Date

: 09/01/2019

Issued to

: M/s. Jindal Saw Limited

Dhedwas Iron Ore Copper & Associated Minerals

Mines , Araji no. 9697/6711 Near Tiranga Hills

Village - Pur Tehsil & District – Bhilwara – 311802

Type of Unit

: Mines

Type of Sample

: Waste Water

Collected by

: Mr. Parsha Ram Kudi

Date of Sample Collection

: 19/12/2018

Date of Received

: 24/12/2018

Date of Test

: 24/12/2018 to 09/01/2019

Point of Collection

: Tailing Filter Recycling water

Testing Protocol

: APHA :2017

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.65
3.	Total Suspended Solids	mg/l	11
4.	Oil & Grease mg/l	mg/l	3
5.	Biochemical Oxygen Demand (3 days at 27 ^o C)	mg/l	2.5
6.	Chemical Oxygen Demand	mg/l	13.4
7.	Dissolved Oxygen	mg/l	6.1
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	2.44
9.	Total Kjeldahal Nitrogen as N	mg/l	8.45
10.	Free Ammonia as NH ₃	mg/l	BDL (<0.1)
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	8.38
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	0.76
14.	Total Dissolved Solid (TDS)	mg/l	1861
15.	Total Phosphate as PO ₄ -P	mg/l	BDL (<0.1)
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL (<0.001)
18.	Arsenic as As	mg/l	BDL (<0.01)
19.	Mercury as Hg	mg/l	BDL (<0.001)
20.	Lead as Pb	mg/l	BDL (<0.01)
21.	Cadmium as Cd	mg/l	BDL (<0.01)
22.	Copper as Cu	mg/l	BDL (<0.01)
23.	Zinc as Zn	mg/l	BDL (<0.01)
24.	Selenium as Se	mg/l	BDL (<0.01)
25.	Nickel as Ni	mg/l	0.02
26.	Cynide as CN	mg/l	BDL (<0.01)
27.	Manganese as Mn	mg/l	0.25
28.	Iron as Fe	mg/l	0.03
29.	Total Chromium as Cr	mg/l	BDL (<0.01)

Note: -

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Puran Matiyogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No : WW/NABL/1069
Job Identification : URL-TC502518200000359
Date : 09/01/2019
Issued to : M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines , Araj no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District – Bhilwara – 311802
Type of Unit : Mines
Type of Sample : Waste Water
Collected by : Mr. Parsha Ram Kudi
Date of Sample Collection : 19/12/2018
Date of Received : 24/12/2018
Date of Test : 24/12/2018 to 09/01/2019
Point of Collection : Tailing Pond
Testing Protocol : APHA :2017

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.86
3.	Total Suspended Solids	mg/l	35
4.	Oil & Grease mg/l	mg/l	3
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	4.6
6.	Chemical Oxygen Demand	mg/l	17.28
7.	Dissolved Oxygen	mg/l	5.1
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	2.84
9.	Total Kjeldahl Nitrogen as N	mg/l	7.5
10.	Free Ammonia as NH ₃	mg/l	BDL(<0.1)
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	8.05
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	0.75
14.	Total Dissolved Solid (TDS)	mg/l	1885
15.	Total Phosphate as PO ₄ -P	mg/l	BDL(<0.1)
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL(<0.0001)
18.	Arsenic as As	mg/l	BDL(<0.01)
19.	Mercury as Hg	mg/l	BDL(<0.001)
20.	Lead as Pb	mg/l	BDL(<0.01)
21.	Cadmium as Cd	mg/l	BDL(<0.01)
22.	Copper as Cu	mg/l	BDL(<0.01)
23.	Zinc as Zn	mg/l	0.50
24.	Selenium as Se	mg/l	BDL(<0.01)
25.	Nickel as Ni	mg/l	BDL(<0.01)
26.	Cynide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	0.48
28.	Iron as Fe	mg/l	0.03
29.	Total Chromium as Cr	mg/l	BDL(<0.01)

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3. The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Matyogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory



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TEST REPORT

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Ph.: 94602-22039, 94602-22049
E-mail : teamtesthouse@gmail.com
E-mail : director@teamtesthouse.com

Report No : WW/NABL/1070
Job Identification : URL-TC502518200000360
Date : 09/01/2019
Issued to : M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines , Araji no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District – Bhilwara – 311802
Type of Unit : Mines
Type of Sample : Waste Water
Collected by : Sitaram Jangid
Date of Sample Collection : 19/12/2018
Date of Received : 24/12/2018
Date of Test : 24/12/2018 to 09/01/2019
Point of Collection : STP Incoming/ Reservoir water

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.84
3.	Total Suspended Solids	mg/l	67
4.	Oil & Grease mg/l	mg/l	7
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	8.5
6.	Chemical Oxygen Demand	mg/l	28.3
7.	Dissolved Oxygen	mg/l	5.0
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	6.35
9.	Total Kjeldahl Nitrogen as N	mg/l	18.7
10.	Free Ammonia as NH ₃	mg/l	0.40
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	6.31
12.	Total Residual Chlorine	mg/l	BDL (<0.1)
13.	Fluoride	mg/l	1.40
14.	Total Dissolved Solid (TDS)	mg/l	1923
15.	Total Phosphate as PO ₄ -P	mg/l	1.88
16.	Sulphide as S	mg/l	BDL(<0.01)
17.	Phenolic Compound	mg/l	BDL(<0.01)
18.	Arsenic as As	mg/l	BDL(<0.01)
19.	Mercury as Hg	mg/l	BDL(<0.001)
20.	Lead as Pb	mg/l	BDL(<0.01)
21.	Cadmium as Cd	mg/l	BDL (< 0.01)
22.	Copper as Cu	mg/l	BDL(<0.01)
23.	Zinc as Zn	mg/l	0.16
24.	Selenium as Se	mg/l	BDL(<0.01)
25.	Nickel as Ni	mg/l	BDL(<0.01)
26.	Cyanide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	BDL(<0.01)
28.	Iron as Fe	mg/l	0.05
29.	Total Chromium as Cr	mg/l	BDL(<0.01)

Note: -

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory



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TEST REPORT

Report No
Job Identification
Date
Issued to

: WW/NABL/1071
: URL-TC502518200000361
: 09/01/2019

Type of Unit
Type of Sample
Collected by
Date of Sample Collection
Date of Received
Date of Test
Point of Collection
Testing Protocol

: M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines , Araji no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District – Bhilwara – 311802
: Mines
: Waste Water
: Mr. Parsha Ram Kudi
: 19/12/2018
: 24/12/2018
: 24/12/2018 to 09/01/2019
: BFN Recycling Water
: APHA 2017

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	8.63
3.	Total Suspended Solids	mg/l	13
4.	Oil & Grease mg/l	mg/l	4
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	2.17
6.	Chemical Oxygen Demand	mg/l	13.82
7.	Dissolved Oxygen	mg/l	5.5
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	4.06
9.	Total Kjeldahal Nitrogen as N	mg/l	14.07
10.	Free Ammonia as NH ₃	mg/l	BDL(<0.1)
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	7.1
12.	Total Residual Chlorine	mg/l	0.1
13.	Fluoride	mg/l	0.65
14.	Total Dissolved Solid (TDS)	mg/l	1405
15.	Total Phosphate as PO ₄ -P	mg/l	0.91
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL(<0.0001)
18.	Arsenic as As	mg/l	BDL(<0.01)
19.	Mercury as Hg	mg/l	BDL(<0.001)
20.	Lead as Pb	mg/l	BDL(<0.01)
21.	Cadmium as Cd	mg/l	BDL(<0.01)
22.	Copper as Cu	mg/l	BDL(<0.01)
23.	Zinc as Zn	mg/l	BDL(<0.01)
24.	Selenium as Se	mg/l	BDL(<0.01)
25.	Nickel as Ni	mg/l	0.03
26.	Cynide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	0.09
28.	Iron as Fe	mg/l	0.02
29.	Total Chromium as Cr	mg/l	0.01

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Puran Mal
Senior Analyst

Rajesh Maheshwar
Authorized Signatory



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TEST REPORT

: WW/NABL/1077
: URL-TC502518200000657
: 15/01/2019
: M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines, Araji no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District – Bhilwara – 311802
: Mines
: Waste Water
: Sitaram Jangid
: 19/12/2018
: 24/12/2018
: 24/12/2018 to 12/01/2019
: Siltation Pond
: APHA :2017

Type of Unit
Type of Sample
Collected by
Date of Sample Collection
Date of Received
Date of Test
Point of Collection
Testing Protocol

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.66
3.	Total Suspended Solids	mg/l	15
4.	Oil & Grease mg/l	mg/l	3
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	6.3
6.	Chemical Oxygen Demand	mg/l	31.4
7.	Dissolved Oxygen	mg/l	6.0
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	1.55
9.	Total Kjeldhal Nitrogen as N	mg/l	15.2
10.	Free Ammonia as NH ₃	mg/l	BDL (<0.1)
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	2.97
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	0.32
14.	Total Dissolved Solid (TDS)	mg/l	1642
15.	Total Phosphate as PO ₄ -P	mg/l	2.13
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL (<0.0001)
18.	Arsenic as As	mg/l	BDL (<0.01)
19.	Mercury as Hg	mg/l	BDL (<0.001)
20.	Lead as Pb	mg/l	0.01
21.	Cadmium as Cd	mg/l	0.003
22.	Copper as Cu	mg/l	BDL (<0.01)
23.	Zinc as Zn	mg/l	0.02
24.	Selenium as Se	mg/l	BDL (<0.01)
25.	Nickel as Ni	mg/l	BDL (<0.01)
26.	Cynide as CN	mg/l	BDL (<0.01)
27.	Manganese as Mn	mg/l	0.14
28.	Iron as Fe	mg/l	0.02
29.	Total Chromium as Cr	mg/l	0.01

Note: -

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Puran Mal Yogi

Senior Analyst

Rajesh Mishra

Authorized Signatory



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Ph.: 94602-22039, 94602-22049
E-mail : teamtesthouse@gmail.com
E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1848
Job Identification : ULR-TC502518100000652
Date : 19-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 11-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Tiranga Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017
5	pH	7.82	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	570	IS 3025 (Part 21) : 1983 RA 2014
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014
8	Chloride [mg/l]	126.4	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	877	IS 3025 (Part 16) : 1984 RA 2017

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RESULTS

E-mail : teamtesthouse@gmail.com
E-mail : director@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	128	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	60.75	IS 3025 (Part 46) : 1994 RA 2014
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2014
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	123	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	5.26	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	1.30	IS 3025 (Part 60) : 2008 RA 2013
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2014
21	Alkalinity - T [mg/l]	150	IS 3025 (Part 23) : 1986 RA 2014
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014
23	Boron [mg/l]	0.45	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
26	Suspended Solids [mg/l]	28	IS 3025 (part 15) : 1984 RA 2014
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

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RESULTS

E-mail : teamtesthouse@gmail.com
E-mail : director@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
33	Calcium Hardness [mg/l]	320	IS 3025 (Part 40) : 1991 RA 2014
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
35	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014
36	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014

Notes :-

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1848)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/1848
Job Identification : ULR-TC502518100000652
Date : 19-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 11-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Tiranga Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B
2	Pesticides [mg/l]	Not Detected	APHA : 2017

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Purnan MaYogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: W/1848)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1849
Job Identification. : ULR-TC502518100000653
Date : 19-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 11-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Dhulkhera Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017
5	pH	7.96	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	550	IS 3025 (Part 21) : 1983 RA 2014
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014
8	Chloride [mg/l]	113.16	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	691	IS 3025 (Part 16) : 1984 RA 2017

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E-mail : teamtesthouse@gmail.com
E-mail : director@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	124	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	58.32	IS 3025 (Part 46) : 1994 RA 2014
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2014
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	92.5	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	1.20	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	1.25	IS 3025 (Part 60) : 2008 RA 2013
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2014
21	Alkalinity - T [mg/l]	112	IS 3025 (Part 23) : 1986 RA 2014
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014
23	Boron [mg/l]	0.40	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
26	Suspended Solids [mg/l]	22	IS 3025 (part 15) : 1984 RA 2014
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
33	Calcium Hardness [mg/l]	310	IS 3025 (Part 40) : 1991 RA 2014
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
35	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014
36	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014

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Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/1849)



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TEST REPORT

Report No. : W/1849
Job Identification. : ULR-TC502518100000653
Date : 19-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 11-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Dhulkhera Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B
2	Pesticides [mg/l]	Not Detected	APHA : 2017

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/1849)



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TEST REPORT

Report No. : W/NABL/1851
Job Identification. : ULR-TC502518100000662
Date : 19-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 11-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Suras Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017
5	pH	7.57	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	530	IS 3025 (Part 21) : 1983 RA 2014
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014
8	Chloride [mg/l]	178	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	1257	IS 3025 (Part 16) : 1984 RA 2017

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	120	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	55.89	IS 3025 (Part 46) : 1994 RA 2014
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2014
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	142	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	15.2	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	0.85	IS 3025 (Part 60) : 2008 RA 2013
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2014
21	Alkalinity - T [mg/l]	310	IS 3025 (Part 23) : 1986 RA 2014
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014
23	Boron [mg/l]	0.34	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
26	Suspended Solids [mg/l]	37	IS 3025 (part 15) : 1984 RA 2014
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

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E-mail : teamtesthouse@gmail.com
E-mail : director@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
33	Calcium Hardness [mg/l]	300	IS 3025 (Part 40) : 1991 RA 2014
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
35	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014
36	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014

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Purana
Purana Mat Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/1851)



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TEST REPORT

Report No. : W/1851
Job Identification. : ULR-TC502518100000662
Date : 19-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 20-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 11-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Suras Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B
2	Pesticides [mg/l]	Not Detected	APHA : 2017

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/1851)



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TEST REPORT

Report No N/1293
Date 02/01/2019
Issued to M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines, Araj no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District - Bhilwara - 311802
(Rajasthan)
Type of Unit Mines
Date of Monitoring 17/12/2018 to 21/12/2018
Date of Sample Receipt 22/12/2018
Date of Test 22/12/2018
Sample Collected by Sitaram Jangid
Type of Monitoring Ambient Noise Monitoring

RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [Leq dB (A)] Day Time	Observed value [Leq dB (A)] Night Time
1.	Pur Village	Rural Area	52.5	43.4
2.	Samodi Village	Rural Area	50.2	41.3
3.	Suras Village	Rural Area	51.3	38.5
4.	Gandhi Sagar park, Bhilwara	Rural Area	52.5	43.7
5.	Kanoli Village	Rural Area	48.4	38.2
6.	Dhulkhera Village	Rural Area	52.3	42.5
7.	Dariba Village	Rural Area	53.2	43.4

Standard Limits [in dB (A)] Leq

Category of Area/ Zone	Day Time	Night Time
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

Note: -

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3. The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.


Purni Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No.: - N/1293)



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TEST REPORT

Report No N/1294
Date 02/01/2019
Issued to M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines, Araj no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District - Bhilwara - 311802
(Rajasthan)
Type of Unit Mines
Date of Monitoring 15/12/2018 to 20/12/2018
Date of Sample Receipt 22/12/2018
Date of Test 22/12/2018
Sample Collected by Sitaram Jangid
Type of Monitoring Ambient Noise Monitoring

RESULTS

Sr. No.	Point Of Monitoring	Observed value [Leq dB (A)] Day Time	Observed value [Leq dB (A)] Night Time
1.	Nr. Raw Material Storage yard (Tiranga Pit)	68.5	57.3
2.	Dhulkhera mines Area (10.0 m of loading Point)	67.3	55.6
3	Suras Mines Area (10.0 m of loading Point)	70.2	59.2
4	Tiranga Mines Area (10.0 m of loading Point)	71.3	62.5
5	Nr. Central Store/ Tata Blue Shed	68.3	56.7
6	Nr. Crusher (CCR Building)	73.4	61.2
7	Filter Fresh Building	70.5	58.5
8	Nr. BFN CCR Building	69.2	60.6

Standard Limits [in dB (A)] Leq:

Category of Area/ Zone	Day Time	Night Time
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

Note: -

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Puran Maheshwari
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No.: - N/1294)



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TEST REPORT

Report No. : ST/1324
Job Identification: ULR-TC502518500000485
Date : 22-01-2019
Issued to M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara
mines
Type of Unit
Type of Sample : **DG Stack Monitoring**
Date of Sample Collection/ Monitoring: 17-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 31-12-2018
Sample Collected by : Sitaram Jangid
Point of Collection : D.G. Set 1010 KVA

RESULTS

S. No	Parameter	Observed Value	Testing Protocol	Limits as per Environment (Protection) Act, 1986,
1.	Particulate Matter [mg/Nm ³]	36.74	IS:11255 (Part-1)	75
2.	Oxides of Nitrogen as NO ₂ [mg/Nm ³]	267	IS:11255 (Part-7)	710
3.	Carbon monoxide as CO[mg/Nm ³]	55	IS:5182 (Part-10)	150
4.	Sulphur Dioxide as SO ₂ [mg/Nm ³]	BDL(< 2.0)	IS:11255 (Part-2)	-
5.	Non Methane Hydrocarbon as HC[mg/Nm ³]	28	IS:5182 (Part-21)	100

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: ST/1324)



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TEST REPORT

Report No. : W/NABL/1850
Job Identification. : ULR-TC502518100000654
Date : 19-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 11-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Drinking Water B.N.F.

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	6.95	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	12	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	22.63	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	88	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	4	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	Less than 1	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	10.75	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	3.91	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.19	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	21.6	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.44	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	10	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00

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Duran Malik
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/1850)



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TEST REPORT

Report No. : W/1850
Job Identification. : ULR-TC502518100000654
Date : 19-01-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 19-12-2018
Date of Sample Receipt : 24-12-2018
Date of Test : 24-12-2018 to 11-01-2019
Sample Collected By : Sitaram jangid
Point of Collection : Drinking Water B.N.F.

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Rajesh Mahashwan
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