



TEAM TEST HOUSE

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

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

NABL RSPCB ISO 9001:2008 OHSAS 18001:2007 JDA/UDH

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TEST REPORT

Report No. : A/3685
Job Identification : ULR-TC502519400000833
Date : 31-03-2019
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 : 15-03-2019
Date of Sample Receipt : 18-03-2019
Date of Test : 18-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Pur Village [74°32'27"N 25°18'01"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	290	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.66	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]	228.28	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	34.89	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.06	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	79.78	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]	3.7	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran Mal Yogi


Rajesh Maheshwari



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ISO 9001:2008

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TEST REPORT

Report No. : A/3684
Job Identification. : ULR-TC502519400000832
Date : 31-03-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji 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 : 16-03-2019
Date of Sample Receipt : 18-03-2019
Date of Test : 18-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dariba Village [74°31'45"N 25°20'35"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	350	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m3]	17.2	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]	231.16	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m3]	35.22	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	7.99	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m3]	76.32	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]	3.7	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Purni Mal Yogi


Rajesh Maheshwar



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TEST REPORT

Report No. : A/3686
Job Identification : ULR-TC502519400000834
Date : 31-03-2019
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 : 15-03-2019
Date of Sample Receipt : 18-03-2019
Date of Test : 18-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Kanoli Village [74°35'58"N 25°16'15"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	160	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.06	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.28	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]	210.34	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	26.93	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	4.97	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	72.77	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]	2.8	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal Yogi

Rajesh Maheshwar



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TEST REPORT

Report No. :

A/3688

Job Identification. :

ULR-TC502519400000836

Date :

31-03-2019

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 :

14-03-2019

Date of Sample Receipt :

18-03-2019

Date of Test :

18-03-2019 to 31-03-2019

Sample Collected By :

Parsa Ram Kudi

Point of Collection :

Gandhisagar Park-Bhilwara [74°38'56"N25°20'11"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	380	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 NO ₂ [microgram/m3]	15.55	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]	249.46	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m3]	25.27	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.74	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m3]	73.52	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]	10.7	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Rajesh Maheshwar



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TEST REPORT

Report No. : A/3687
Job Identification. : ULR-TC502519400000835
Date : 31-03-2019
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 : 13-03-2019
Date of Sample Receipt : 18-03-2019
Date of Test : 18-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : PMS Building-BFN Plant [74°32'15"N 25°19'05"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	320	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.22	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.18	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]	228.42	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	31.18	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.26	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	84.12	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]	5.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal Yogi


Rajesh Maheshwari



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TEST REPORT

Report No. : A/3689
Job Identification. : ULR-TC502519400000837
Date : 31-03-2019
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 : 12-03-2019
Date of Sample Receipt : 18-03-2019
Date of Test : 18-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Mine Workshop [74°31'55"N25°18'52"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	10.7	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	340	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.25	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m3]	15.55	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]	276.01	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m3]	35.11	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.36	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m3]	80.82	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]	8.6	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Raish Maheshwari



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TEST REPORT

Report No. :

A/3680

Job Identification. :

ULR-TC502519400000828

Date :

31-03-2019

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 :

11-03-2019

Date of Sample Receipt :

18-03-2019

Date of Test :

18-03-2019 to 31-03-2019

Sample Collected By :

Parsa Ram Kudi

Point of Collection :

Near Tiranga Pit [74°32'20"N25°19'32"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	290	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.39	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]	285.9	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	33.68	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.84	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	87.3	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]	9.4	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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TEST REPORT

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Report No: A/3683
Job Identification: ULR-TC502519400000831

Date : 08-04-2019

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 : Ambient Air Quality Monitoring

Date of Sample Collection/Monitoring : 14-03-2019

Date of Sample Receipt : 18-03-2019

Date of Test : 18-03-2019 to 31-03-2019

Sample Collected By : Parsa Ram Kudi

Point of Collection : Samodi Village
[74°33'05"N 25°20'47"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	240	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.05	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	16.3	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]	249.69	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	36.21	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	4.82	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	73.76	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]	1.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Purgesha
Purgesha Mal Yogi

Prakash Maheshwar
Prakash Maheshwar



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TEST REPORT

Report No

Job Identification :

Date :

Issued To :

Type of Unit :

Type of Sample :

Date of Sample Collection/Monitoring :

Date of Sample Receipt :

Date of Test :

Sample Collected By :

Point of Collection :

A/3681

ULR-TC502519400000829

08-04-2019

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)

Mines

Ambient Air Quality Monitoring

13-03-2019

18-03-2019

18-03-2019 to 31-03-2019

Parsa Ram Kudi

Near Dhulkhera Pit

[74°34'31"N 25°23'27"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	310	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.21	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	16.2	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]	212.46	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	29.12	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.69	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	80.23	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]	4.8	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mai Yogi

Prakash Manojwar



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TEST REPORT

Report No. : A/3682
Job Identification : ULR-TC502519400000830
Date : 31-03-2019
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 : 13-03-2019
Date of Sample Receipt : 18-03-2019
Date of Test : 18-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Pit [74°34'11"N 25°23'24"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	320	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.23	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	16.7	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	238.19	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	34.32	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	6.76	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	86.54	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]	5.6	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal Yogi


Rajesh Maheshwari



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : A/3695
Job Identification. : ULR-TC502519400000849
Date : 31-03-2019
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 : 18-03-2019
Date of Sample Receipt : 25-03-2019
Date of Test : 25-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near Tiranga Pit [74°32'20"N25°19'32"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	310	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.53	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	221.84	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	28.09	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	5.8	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	87.57	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

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Puran
Puran Malik
Senior Analyst

Raj
Rajesh Maheshwan
Authorized Signatory
(Report No: A/3695)



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TEST REPORT

Report No. : A/3698
Job Identification. : ULR-TC502519400000852
Date : 31-03-2019
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 : 16-03-2019
Date of Sample Receipt : 25-03-2019
Date of Test : 25-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Samodi Village (74°33'05"N,25°20'47"E)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	240	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.26	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	249.09	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	33.65	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.18	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	72.63	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: A/3698)



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TEST REPORT

Report No. : A/3696
Job Identification. : ULR-TC502519400000850
Date : 31-03-2019
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 : 17-03-2019
Date of Sample Receipt : 25-03-2019
Date of Test : 25-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dhulkhera Pit (74°34'31"N, 25°23'37"E)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	320	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.06	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	228.67	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	28.39	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.44	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	81.29	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

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Puran Maurya
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: A/3696)



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TEST REPORT

Report No. : A/3697
Job Identification. : ULR-TC502519400000851
Date : 31-03-2019
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 : 18-03-2019
Date of Sample Receipt : 25-03-2019
Date of Test : 25-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Pit Samodi Village (74°33'10"N,25°23'24"E)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	280	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m3]	16.6	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	207.14	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM _{2.5}) [microgram/m3]	32.49	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	5.96	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	81.07	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

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Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: A/3697)



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TEST REPORT

Report No. : W/NABL/25
Job Identification : ULR-TC502519100000507
Date : 09-05-2019
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 : 14-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 09-04-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Pur Village (74°32'27"N,25°18'11"E)

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	7.82	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]	270.77	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1553	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]	140	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	55.89	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]	302.62	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	28.6	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.95	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]	428	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]	BDL(<0.2)	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 1.0	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]	350	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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Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/25)



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TEST REPORT

Report No. : W/25
Job Identification. : ULR-TC502519100000507
Date : 09-05-2019
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 : 14-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 09-04-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Pur Village (74°32'27"N,25°18'11"E)

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 Maheshwari
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/25)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/30
Job Identification. : ULR-TC502519100000511
Date : 09-05-2019
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 : 16-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 09-04-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dariba Village [74°31'39"N 25°20'34"E]

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	7.26	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	416	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]	144.41	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1070	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

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Raj



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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]	112	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	33.05	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]	0.02	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	215	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	2.39	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.54	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]	384	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]	BDL(<0.2)	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]	436	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
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/30)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/30
Job Identification : ULR-TC502519100000511
Date : 09-05-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji 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 : 16-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 09-04-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dariba Village [74°31'39"N 25°20'34"E]

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 Maiti Xogi
Puran Maiti Xogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: W/30)



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TEST REPORT

Report No. : W/NABL/29
Job Identification : ULR-TC502519100000510
Date : 09-04-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji 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 : 15-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 09-04-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Kanoli Village (74°36'11"N,25°16'12"E)

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	7.85	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	256	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	0.05	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	76	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	475	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]	62.4	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]	28.62	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	10.3	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.58	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]	220	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]	BDL(<0.2)	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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Rajesh Mishra



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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	-	-
33	Calcium Hardness [mg/l]	156	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
Puran Mal Yogi

Senior Analyst

Rajesh
Rajesh Maheshwan

Authorized Signatory
(Report No: W/NABL/29)



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TEST REPORT

Report No. : W/29
Job Identification : ULR-TC502519100000510
Date : 09-04-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 15-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 09-04-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Kanoli Village (74°36'11"N,25°16'12"E)

Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

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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Puram
Puram Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/29)



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TEST REPORT

Report No. : W/NABL/28
Job Identification. : ULR-TC502519100000509
Date : 09-04-2019
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 : 14-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 09-04-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Gandhi Sagar Park (74°38'56"N,25°20'12"E)

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	7.38	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	520	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]	212.81	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1207	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]	17.5	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]	0.04	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	212.5	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	35.15	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]	260	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]	BDL(<0.2)	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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Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

NABL RSPCB ISO 9001:2008 OHSAS 18001:2007 JDA/UDH

Office : E-65, Chitranganj Marg,
C-Scheme, Jaipur-302001
Phone : 0141-2369980, 2771865

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
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]	340	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 Yoni
Puran Mal Yoni

Senior Analyst

Rajesh Maheshwar
Rajesh Maheshwar

Authorized Signatory
(Report No: W/NABL/28)



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

TEST REPORT

Report No.: W/28
Job Identification.: ULR-TC502519100000509
Date: 09-04-2019
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: 14-03-2019
Date of Sample Receipt: 22-03-2019
Date of Test: 22-03-2019 to 09-04-2019
Sample Collected By: Parsa Ram Kudi
Point of Collection: Gandhi Sagar Park (74°38'56"N,25°20'12"E)

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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Purán Mal Yogi
Purán Mal Yogi
Senior Analyst

Rajesh Maheshwar
Rajesh Maheshwar
Authorized Signatory
(Report No: W/28)



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TEST REPORT

Report No. : W/NABL/27
Job Identification.: ULR-TC502519100000508
Date : 09-04-2019
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 : 16-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 09-04-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Samodi Village [74°32'58"N,25°20'56"E

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	7.39	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	372	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]	165.31	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	890	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

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Rajesh Maheshwan



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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]	91.2	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	34.99	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]	0.06	IS 3025 (Part 59) : 2006 RA 2017	-	-
14	Sulphate [mg/l]	212.5	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	26.89	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.32	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]	367.2	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]	BDL(<0.2)	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	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]	228	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

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Puran Manjogi
Puran Manjogi
Senior Analyst

Raj
Authorized Signatory
(Report No: W/NABL/27)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No.: W/27
Job Identification : ULR-TC502519100000508
Date : 09-04-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji 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 : 16-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 09-04-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Samodi Village [74°32'58"N,25°20'56"E]

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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Purab Mal Yogi
Senior Analyst


Rajesh Manoj Siwal
Authorized Signatory
(Report No: W/27)



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TC-5025

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TEST REPORT

Report No. :	W/NABL/24
Job Identification. :	ULR-TC502519100000505
Date :	09-04-2019
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 :	14-03-2019
Date of Sample Receipt :	22-03-2019
Date of Test :	22-03-2019 to 09-04-2019
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Dhulkhera Village (74°35'31"N,25°23'59"E)

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]	400	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]	204.26	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1169	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

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Rajesh Maneswar



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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]	76.8	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	50.54	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]	85.2	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	31.52	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.37	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]	284	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]	BDL(<0.2)	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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Rajesh Manojswari



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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]	192	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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Purn Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/24)



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TEST REPORT

Report No. : W/24
Job Identification : ULR-TC502519100000505
Date : 09-04-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji 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 : 14-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 09-04-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dhulkhera Village (74°35'31"N,25°23'59"E)

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/24)



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TEST REPORT

Report No. : W/NABL/26
Job Identification. : ULR-TC502519100000506
Date : 09-04-2019
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 : 15-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 09-04-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Village -Near Palki Rani Temple(74°33'40"N,25°13'16"E)

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	7.12	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	510	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]	296.89	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1007	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

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Rajesh Maheshwari



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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]	120	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	51.03	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]	66.25	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	24.94	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.52	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]	252	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]	BDL(<0.2)	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	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]	300	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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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/26)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : A/26
Job Identification. : ULR-TC502519100000506
Date : 09-04-2019
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 : 15-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 09-04-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Village -Near Palki Rani Temple(74°33'40"N,25°13'16"E)

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 Mah Yogi
Senior Analyst


Rajesh Maheshwar
Authorized Signatory
(Report No: A/26)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/35
Job Identification. : ULR-TC502519100000512
Date : 10-04-2019
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 : 16-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 10-04-2019
Sample Collected By : Parsaram Kudi
Piezometer Well No.1 [74°32'21"N
25°19'06"E]
Point of Collection :

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]	570	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]	184.31	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1359	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

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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]	180	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]	225	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	17.65	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	1.11	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]	0.36	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

Lab.: G1-584, Sitapura Industrial Area
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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]	450	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 Maheshwari
Authorized Signatory
(Report No: W/NABL/35)



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TEST REPORT

Report No. : W/NABL/36
Job Identification. : ULR-TC502518100000513
Date : 10-04-2019
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 : 16-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 10-04-2019
Sample Collected By : Parsaram Kudi
Point of Collection : Piezometer Well No. 2 (plant gate no.6)
(74°32'49"N25°20'04"E)

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	7.14	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	500	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]	318.27	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1600	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

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Raj



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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]	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]	175.62	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	28.74	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.59	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]	390	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	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]	370	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	-	-

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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/513)



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TEST REPORT

Report No. : W/NABL/37
Job Identification. : ULR-TC502518100000514
Date : 10-04-2019
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 : 15-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 10-04-2019
Sample Collected By : Parsaram Kudi
Point of Collection : Piezometer Well No. 3
(74°33'50"N25°23'32"E)

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	7.18	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	408	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]	131.11	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	860	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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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]	120	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	26.24	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]	112.5	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	32.19	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.66	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]	356	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	-

Note:

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JDA/UDH

Office : E-65, Chitrangan Marg,
G-Scheme, Jaipur 302001

RESULTS

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.

Sl. 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]	300	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 :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # 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 Mar Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: W/NABL/37)



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Website : www.teamtesthouse.com

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.
Ph.: 94602-22039, 94602-22049
E-mail : teamtesthouse@gmail.com
E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/38
Job Identification. : ULR-TC502518100000515
Date : 10-04-2019
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 : 15-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 10-04-2019
Sample Collected By : Parsaram Kudi
Point of Collection : Piezometer Well No. 4
(74°34'18"N25°23'18"E)

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	7.24	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	308	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]	233.71	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1109	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.

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
	Phone No: 2369980, 2771865 Website : www.teamtesthouse.com			Ph: 01602-22039, 94602-22049 E-mail: teamtesthouse@gmail.com E-mail: director@teamtesthouse.com	
10	Calcium [mg/l]	88	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	21.40	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]	146.25	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	7.47	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.63	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]	310	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]	0.34	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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C-Scheme, Jaipur-302001

RESULTS

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.

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]	220	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 :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # 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

Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/38)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/39
Job Identification : ULR-TC502518100000516
Date : 10-04-2019
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 : 15-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 10-04-2019
Sample Collected By : Sitaram Jangid
Point of Collection : Piezometer Well No. 5 [74°35'06"N
25°24'04"E]

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	7.17	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	510	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]	216.61	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1624	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00



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RESULTS

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.

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]	116	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	53.46	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]	220	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	24.98	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	1.21	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]	260	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

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.

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]	290	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 :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # 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/39)



TEAM TEST HOUSE

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



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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/40
Job Identification. : ULR-TC502518100000517
Date : 10-04-2019
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 : 15-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 10-04-2019
Sample Collected By : Sitaram Jangid
Point of Collection : Piezometer Well No. 6 (Dhulkhera mine)
[74°34'56"N 25°24'05"E]

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	7.03	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	570	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]	327.77	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1785	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.

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]	63.20	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]	247.5	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	40.75	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.83	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]	0.46	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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Tonk Road, JAIPUR-302022 Raj.

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

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 :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # 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 Maheshwari
Authorized Signatory
(Report No: W/NABL/40)



TEAM TEST HOUSE

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



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

NABL RSPCB ISO 9001:2008 OHSAS 18001:2007 JDA/UDH

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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/41
Job Identification. : ULR-TC502518100000518
Date : 10-04-2019
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 : 15-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 10-04-2019
Sample Collected By : Sitaram Jangid
Point of Collection : Piezometer Well No. 7
[74°34'31"N 25°23'34"E

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	7.13	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]	172.91	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1039	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

Continue to next page...

Raj



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



TC-5025

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NABL RSPCB ISO 9001:2008 OHSAS 18001:2007 JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur-302001

RESULTS

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Rai.

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]	104	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	18.47	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]	146.87	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	10.4	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	1.36	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]	184	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	-

Note:

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TC-5025

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Office : E-65, Chitranganj Marg,
C-Scheme, Jaipur-302001

RESULTS

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.

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]	260	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 :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # 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 M&I Yogi
Puran M&I Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/41)



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



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/42
Job Identification. : ULR-TC502518100000519
Date : 11-04-2019
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 : 15-03-2019
Date of Sample Receipt : 22-03-2019
Date of Test : 22-03-2019 to 10-04-2019
Sample Collected By : Sitaram Jangid
Point of Collection : Piezometer Well No. 8
[74°23'53"N25°23'53"E]

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]	328	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]	114.01	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

Note:

Continue to next page...

Ref



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Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur-302001

RESULTS

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.

Sl. 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]	105.6	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	15.55	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]	96.20	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	15.4	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	1.29	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]	0.37	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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Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur-302001

RESULTS

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj

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]	244	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 Maheshwari
Authorized Signatory
(Report No: W/NABL/42)



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

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

NABL

RSPCB

ISO 9001:2008

OHSAS 18001:2007

JDA/UDH

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

TEST REPORT

Report No : W/40
Date : 10/04/2019
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 (Rajasthan)
Type of Unit : Mines
Type of Sample : Water Level Measurement
Date of Measurement : 15/03/2019
Date of Test : 15/03/2019
Water Level Measured By : Mr. Sitaram Jangid

RESULTS

S.No	Location	Water Level in Meters BGL
1	Peizometer No.1	21.30
2	Peizometer No.2	14.05
3	Peizometer No.3	15.32
4	Peizometer No.4	20.3
5	Peizometer No.5	6.20
6	Peizometer No.6	13.15
7.	Peizometer No.7	11.50
8.	Peizometer No.8	9.05

Note: -

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Puran Mal Jodi
Senior Analyst

Rajesh Maneshwan
Authorized Signatory
(Report No: W/40)



TEAM TEST HOUSE

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

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ISO 9001:2008

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JDA/UDH

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TEST REPORT

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Tonk Road, JAIPUR-302022 Raj.
Ph.: 94602-22039, 94602-22049
E-mail : teamtesthouse@gmail.com
teamtesthouse@teamtesthouse.com
TC502519200000402
10/04/2019
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
: Mines
: Waste Water
: Mr. Parsha Ram Kudi
: 16/03/2019
: 22/03/2019
: 22/03/2019 to 10/04/2019
: Tailing Filter Press [74°32'19"N 25°19'07"E]
: 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	-	7.43
3.	Total Suspended Solids	mg/l	26
4.	Oil & Grease mg/l	mg/l	3
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	2.78
6.	Chemical Oxygen Demand	mg/l	9.89
7.	Dissolved Oxygen	mg/l	6.5
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	2.78
9.	Total Kjeldahal Nitrogen as N	mg/l	6.35
10.	Free Ammonia as NH ₃	mg/l	BDL(<0.1)
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	5.26
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	0.80
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	0.01
26.	Cynide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	0.23
28.	Iron as Fe	mg/l	0.02
29.	Total Chromium as Cr	mg/l	BDL(<0.01)

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.

Puran Mal Yadav
Senior Analyst

Rajesh Manohwari
Authorized Signatory

(Report No: TC502519200000402)



TEAM TEST HOUSE

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

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NABL RSPCB ISO 9001:2008 OHSAS 18001:2007 JDA/UDH

TEST REPORT

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Phone : 0141-2369980, 2771865
Website : www.teamtesthouse.com

Report No./CDR
Date Issued to

TC502519200000404 Lab.: G1-584, Sitapura Industrial Area
10/04/2019 Tonk Road, JAIPUR-302022 Raj.
M/s. Jindal Saw Limited Ph.: 94602-22039, 94602-22049
Dhedwas Iron Ore Copper & Associated Minerals E-mail : teamtesthouse@gmail.com
Mines, Araj no. 9697/6711 Near Tiranga Hills E-mail : director@teamtesthouse.com
Village - Pur Tehsil & District – Bhilwara – 311802
Mines
Waste Water
Mr. Parsha Ram Kudi
16/03/2019
22/03/2019
22/03/2019 to 10/04/2019
STP Incoming/ Reservoir water
[74°32'37"N25°19'34"E]

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

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.63
3.	Total Suspended Solids	mg/l	38
4.	Oil & Grease mg/l	mg/l	5
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	9.23
6.	Chemical Oxygen Demand	mg/l	30.4
7.	Dissolved Oxygen	mg/l	5.5
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	7.41
9.	Total Kjeldahal Nitrogen as N	mg/l	15.25
10.	Free Ammonia as NH ₃	mg/l	0.48
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	7.40
12.	Total Residual Chlorine	mg/l	BDL (<0.1)
13.	Fluoride	mg/l	1.33
14.	Total Dissolved Solid (TDS)	mg/l	1874
15.	Total Phosphate as PO ₄ -P	mg/l	1.55
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	0.10
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	0.02
29.	Total Chromium as Cr	mg/l	BDL(<0.01)

Note: -

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Puran Marwani
Senior Analyst

Rajesh Maheshwar
Authorized Signatory

(Report No: TC502519200000404)



TEAM TEST HOUSE

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

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NABL RSPCB ISO 9001:2008 OHSAS 18001:2007 JDA/UDH

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Website : www.teamtesthouse.com
Date Issued to

TEST REPORT

TC502519200000403
10/04/2019
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
: Mr. Parsha Ram Kudi
: 16/03/2019
: 22/03/2019
: 22/03/2019 to 10/04/2019
: Tailing Pond [74°32'15"N 25°19'19"E]
: APHA :2017

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.
Ph.: 94602-22039, 94602-22049
E-mail : teamtesthouse@gmail.com
E-mail : director@teamtesthouse.com

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	15
2.	pH	-	7.93
3.	Total Suspended Solids	mg/l	43
4.	Oil & Grease mg/l	mg/l	4
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	5.23
6.	Chemical Oxygen Demand	mg/l	13.5
7.	Dissolved Oxygen	mg/l	5.5
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	2.84
9.	Total Kjeldahal Nitrogen as N	mg/l	8.73
10.	Free Ammonia as NH ₃	mg/l	BDL(<0.1)
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	6.55
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	0.96
14.	Total Dissolved Solid (TDS)	mg/l	1903
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	0.23
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	0.16
28.	Iron as Fe	mg/l	0.02
29.	Total Chromium as Cr	mg/l	BDL(<0.01)

Note: -1. The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.

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

Puran Ma Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory



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TEST REPORT

Report No. TC502519200000409
Date issued to : 10/04/2019
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 : 16/03/2019
Date of Received : 22/03/2019
Date of Test : 22/03/2019 to 10/04/2019
Point of Collection : BFN Recycling Water [74°32'17"N25°19'10"E]
Testing Protocol : APHA 2017

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RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	20
2.	pH	-	8.25
3.	Total Suspended Solids	mg/l	18
4.	Oil & Grease mg/l	mg/l	5
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	5.19
6.	Chemical Oxygen Demand	mg/l	16.48
7.	Dissolved Oxygen	mg/l	10.3
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	3.87
9.	Total Kjeldahal Nitrogen as N	mg/l	24.19
10.	Free Ammonia as NH ₃	mg/l	BDL (<0.1)
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	8.36
12.	Total Residual Chlorine	mg/l	0.1
13.	Fluoride	mg/l	0.87
14.	Total Dissolved Solid (TDS)	mg/l	1652
15.	Total Phosphate as PO ₄ -P	mg/l	1.26
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	0.05
26.	Cynide as CN	mg/l	BDL (<0.01)
27.	Manganese as Mn	mg/l	0.06
28.	Iron as Fe	mg/l	0.04
29.	Total Chromium as Cr	mg/l	0.01

Note: -1. The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.

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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 Maheshwari
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519200000409)



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TEST REPORT

Report No./ULR No. :	TC502519100000524P	Date :	10-04-2019
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 :	15-03-2019
Point of Collection :	Meja Dam [74°32'17"N 25°23'73"E]	Date of Receipt :	22-03-2019
Date of Test/Analysis :	22-03-2019 to 10-04-2019	Sampling Plan :	IS 3025 :1987 Part-1 RA2014
Quantity of Sample :	5.0 liter	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Mr. Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5.0	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	8.10	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	216	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]	66.5	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	369	IS 3025 (Part 16) : 1984 RA 2017

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	68.8	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	10.69	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]	27.75	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	4.53	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	0.52	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]	0.04	IS 3025 (Part 49) : 1994 RA 2014
21	Alkalinity - T [mg/l]	72	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]	0.31	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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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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
34	Calcium Hardness [mg/l]	172	IS 3025 (Part 40) : 1991 RA 2014
35	Pesticides [mg/l]	Not Detected	APHA : 2017
36	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
37	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014
38	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,32,33,34,36,37,38 covered under NABL scope and Parameter No. 31,35 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Ruran Mal Yogi
Ruran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory

(Report No: TC502519100000524P)



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TEST REPORT

Report No./ULR No. :	TC502519100000525P	Date :	10-04-2019
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 :	16-03-2019
Point of Collection :	Samodi Pond [74°32'51"N 25°20'39"E]	Date of Receipt :	22-03-2019
Date of Test/Analysis :	22-03-2019 to 10-04-2019	Sampling Plan :	IS 3025 :1987 Part-1 RA2014
Quantity of Sample :	5.0 liter	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Mr. Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5.0	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	7.12	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	208	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]	64.6	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	422	IS 3025 (Part 16) : 1984 RA 2017

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	59.2	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	14.58	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]	40.62	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	10.12	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	0.48	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]	64	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]	0.37	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

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
34	Calcium Hardness [mg/l]	148	IS 3025 (Part 40) : 1991 RA 2014
35	Pesticides [mg/l]	Not Detected	APHA : 2017
36	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
37	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014
38	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,32,33,34,36,37,38 covered under NABL scope and Parameter No. 31,35 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

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Piuran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502519100000525P)



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TEST REPORT

Report No./JLR No. :	TC502519100000520P	Date :	10-04-2019
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 :	16-03-2019
Point of Collection :	Tiranga Pit [74°32'12"N 25°19'27"E]	Date of Receipt :	22-03-2019
Date of Test/Analysis :	22-03-2019 to 10-04-2019	Sampling Plan :	IS 3025:1987 part-1 RA2014
Quantity of Sample :	5.0 liter	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Mr. Shitanshu Pandey	Condition of sample	Fit for testing

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	8.07	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	464	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]	218.51	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	1048	IS 3025 (Part 16) : 1984 RA 2017

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	113.6	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	43.74	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]	156.25	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	37.85	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	0.91	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]	130	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]	0.42	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]	8	IS 3025 (part 15) : 1984 RA 2014
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

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Ph: 94602-22039, 94602-22049
E-mail : teamtesthouse@gmail.com
E-mail : teamtesthouse@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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
34	Calcium Hardness [mg/l]	284	IS 3025 (Part 40) : 1991 RA 2014
35	Pesticides [mg/l]	Not Detected	APHA : 2017
36	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
37	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2014
38	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,32,33,34,36,37,38 covered under NABL scope and Parameter No. 31,35 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Prerana
Prerana Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory

(Report No:-TC502519100000520P)



TEAM TEST HOUSE

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



TC-5025

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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502519100000521P	Date :	10-04-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji 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 :	15-03-2019
Point of Collection :	Dhulkhera Pit [74°34'32"N 25°23'43"E]	Date of Receipt :	22-03-2019
Date of Test/Analysis :	22-03-2019 to 10-04-2019	Sampling Plan :	IS 3025:1987 part-1 RA2014
Quantity of Sample :	5.0 liter	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Mr. Shitanshu Pandey	Condition of sample	Fit for testing

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	7.42	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	580	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]	138.71	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	1015	IS 3025 (Part 16) : 1984 RA 2017

Note:

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RESULTS

Lab.: G1-584, Sitapura Industrial Area
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S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	140	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]	107.3	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	5.37	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	1.29	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]	170	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]	0.43	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]	26	IS 3025 (part 15) : 1984 RA 2014
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

Note:

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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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
34	Calcium Hardness [mg/l]	350	IS 3025 (Part 40) : 1991 RA 2014
35	Pesticides [mg/l]	Not Detected	APHA : 2017
36	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
37	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2014
38	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,32,33,34,36,37,38 covered under NABL scope and Parameter No. 31,35 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory

(Report No:-TC502519100000521P)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502519100000522P	Date :	10-04-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji 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 :	15-03-2019
Point of Collection :	Suras Pit [74°34'10"N 25°23'32"E]	Date of Receipt :	22-03-2019
Date of Test/Analysis :	22-03-2019 to 10-04-2019	Sampling Plan :	IS 3025:1987 part-1 RA2014
Quantity of Sample :	5.0 liter	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Mr. Shitanshu Pandey	Condition of sample	Fit for testing

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	8.01	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	552	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]	163.41	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	952	IS 3025 (Part 16) : 1984 RA 2017

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	185.6	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	21.38	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]	156.25	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	10.21	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	1.01	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]	167.4	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]	31	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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
34	Calcium Hardness [mg/l]	464	IS 3025 (Part 40) : 1991 RA 2014
35	Pesticides [mg/l]	Not Detected	APHA : 2017
36	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
37	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2014
38	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,32,33,34,36,37,38 covered under NABL scope and Parameter No. 31,35 does not cover under NABL scope
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No:-TC502519100000522P)



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TEST REPORT

Report No. : A/3890
Job Identification. : ULR-TC502519400000838
Date : 31-03-2019
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 : Fugitive Emission Monitoring
Date of Sample Collection/Monitoring : 14-03-2019
Date of Sample Receipt : 18-03-2019
Date of Test : 18-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Raw Material Storage Yard[74°32'05"N 25°19'10"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [$\mu\text{g}/\text{m}^3$]	474.36	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Puran Mal Yogi
Senior Analyst


Rajesh Manohwan
Authorized Signatory
(Report No: A/3890)



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TEST REPORT

Report No. : A/3891
Job Identification. : ULR-TC502519400000839
Date : 31-03-2019
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 : Fugitive Emission Monitoring
Date of Sample Collection/Monitoring : 15-03-2019
Date of Sample Receipt : 18-03-2019
Date of Test : 18-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Haul Road Gate No.5[74°32'42"N 25°20'02"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [$\mu\text{g}/\text{m}^3$]	387.28	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: A/3891)



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TEST REPORT

Report No. : A/3892
Job Identification. : ULR-TC502519400000840
Date : 31-03-2019
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 : Fugitive Emission Monitoring
Date of Sample Collection/Monitoring : 16-03-2019
Date of Sample Receipt : 18-03-2019
Date of Test : 18-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Central Workshop Crusher line-3[74°32'03"N 25°19'03"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [$\mu\text{g}/\text{m}^3$]	455.10	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: A/3892)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : A/3893
Job Identification : ULR-TC502519400000841
Date : 31-03-2019
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Fugitive Emission Monitoring
Date of Sample Collection/Monitoring : 15-03-2019
Date of Sample Receipt : 18-03-2019
Date of Test : 18-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Screening In Crusher [74°32'10"N 25°19'10"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [$\mu\text{g}/\text{m}^3$]	362.57	IS 5182 (Part 4) : 1999 Reaffirmed 2014

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 Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: A/3893)



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TEST REPORT

Report No. : A/3894
Job Identification. : ULR-TC502519400000842
Date : 31-03-2019
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 : Fugitive Emission Monitoring
Date of Sample Collection/Monitoring : 14-03-2019
Date of Sample Receipt : 18-03-2019
Date of Test : 18-03-2019 to 31-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Waste Dump Storage yard [74°32'18"N 25°19'20"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [$\mu\text{g}/\text{m}^3$]	436.40	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: A/3894)



TEAM TEST HOUSE

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



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

NABL RSPCB ISO 9001:2008 OHSAS 18001:2007 JDA/UDH

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TEST REPORT

Report No. :	W/NABL/35
Job Identification. :	ULR-TC502519100000512
Date :	10-04-2019
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 :	16-03-2019
Date of Sample Receipt :	22-03-2019
Date of Test :	22-03-2019 to 10-04-2019
Sample Collected By :	Parsaram Kudi BFN Ground Water [74°32'21"N 25°19'06"E]
Point of Collection :	

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]	570	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]	184.31	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1359	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

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Office : E-65, Chitrangan Marg,
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RESULTS

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.

Sl. 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]	180	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]	225	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	17.65	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	1.11	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]	0.36	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

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.

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]	450	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	-	-

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- # Parameters No. 35 & 36 are not in NABL Scope

Puran Mayyogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/35)



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TEST REPORT

Report No N/1841
Date 31/03/2019
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
(Rajasthan)
Type of Unit Mines
Date of Monitoring 14/03/2019 to 16/03/2019
Date of Sample Receipt 18/03/2019
Date of Test 18/03/2019
Sample Collected by Parsaram Kudi
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 [74°32'27"N 25°18'01"E]	Rural Area	53.5	42.4
2.	Samodi Village [74°32'57"N 25°20'56"E]	Rural Area	49.6	38.5
3.	Suras Village [74°33'40"N 25°23'16"E]	Rural Area	50.3	37.6
4.	Gandhi Sagar park, Bhilwara [74°38'56"N 25°20'11"E]	Rural Area	52.6	41.2
5.	Kanoli Village [74°36'10"N 25°16'12"E]	Rural Area	48.6	40.3
6.	Dhulkhera Village [74°35'17"N 25°24'03"E]	Rural Area	53.4	41.2
7.	Dariba Village [74°31'45"N 25°20'35"E]	Rural Area	51.4	40.5

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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Senior Analyst
Purnan Mal Yogi


Authorized Signatory
(Report No.: - N/1841)



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Report No

N/1842

Date

31/03/2019

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
(Rajasthan)

Type of Unit

Mines

Date of Monitoring

11/03/2019 to 15/03/2019

Date of Sample Receipt

18/03/2019

Date of Test

18/03/2019

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) [74°32'12"N 25°19'16"E]	67.8	61.3
2.	Dhulkhera Pit 10.0 m of loading Point [74°34'30"N 25°23'41"E]	66.5	58.2
3.	Suras Pit 10.0 m of loading Point [74°34'04"N 25°23'28"E]	64.2	57.8
4.	Tiranga Pit 10.0 m of loading Point [74°32'10"N 25°19'27"E]	67.2	60.5
5.	Filter Press Building [74°32'20"N 25°19'07"E]	62.5	56.7
6.	CCR- Crusher Plant [74°32'06"N 25°19'06"E]	63.9	55.6
7.	Tata Blue Scope Shed [74°32'06"N 25°19'03"E]	65.4	58.3
8.	CCR -BFN Plant [74°32'14"N 25°19'04"E]	68.7	61.2

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

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Senior Engineer


Rajesh Maheshwari
Authorized Signatory



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TEST REPORT

Report No. : ST/1576
Job Identification: ULR-TC502518500000280
Date : 31-03-2019
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: 15-03-2019
Date of Sample Receipt : 16-03-2019
Date of Test : 16-03-2019 to 31-03-2019
Sample Collected by : Parsa Ram Kudi
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]	43.6	IS:11255 (Part-1)	75
2.	Oxides of Nitrcgen as NO ₂ [mg/Nm ³]	247	IS:11255 (Part-7)	710
3.	Carbon monoxide as CO[mg/Nm ³]	82	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]	25	IS:5182 (Part-21)	100

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: ST/1576)