



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

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RSPCB

ISO 9001:2008

OHSAS 18001:2007

JDA/UDH

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TEST REPORT

Report No. : A/801
Job Identification. : A548/18-19
Date : 23-06-2018
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 : 07-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 21-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Pur Village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	310	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]	14.73	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]	264.78	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	30.31	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.5	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	70.17	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]	9.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Parsa Ram Kudi
Parsa Ram Kudi

Rajesh Maheshwari
Rajesh Maheshwari



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TEST REPORT

Report No. : A/800
Job Identification. : A547/18-19
Date : 23-06-2018
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 : 08-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 21-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dariba Village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	230	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.16	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.43	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]	217.49	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	26.5	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.96	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	76.51	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)	None	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	7.4	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Rajesh Maheshwar



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TEST REPORT

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Report No. : A/802

Job Identification. : A549/18-19

Date : 23-06-2018

Issued To : M/S Jindal Saw Limited (Dhedwas Mines)

A/802

A549/18-19

23-06-2018

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 : 07-06-2018

Date of Sample Receipt : 16-06-2018

Date of Test : 16-06-2018 to 21-06-2018

Sample Collected By : Parsa Ram Kudi

Point of Collection : Kanoli Village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	270	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.03	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	11.37	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]	265.89	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	30.39	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.33	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	70.15	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]	1.3	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Parsa Ram Kudi

Rajesh Maheshwari



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TEST REPORT

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Report No: A/804
Job Identification : A551/18-19
Date : 23-06-2018
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 : 07-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 21-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Gandhisagar Park

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	300	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]	13.78	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]	289.63	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	37.68	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.13	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	85.64	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]	14.4	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Parsa Ram Kudi

Rajesh Maheshwari



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TEST REPORT

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Report No. A/805
Job Identification. : A552/18-19
Date : 23-06-2018
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 : 08-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 21-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Mines Workshop

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (< 10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	280	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.04	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.72	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]	311.14	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	30.65	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.09	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	81.63	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]	13.8	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal Yogi
Puran Mal Yogi

Rajesh Maheshwari
Rajesh Maheshwari



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TEST REPORT

Report No.: A/803
 Job Identification.: A550/18-19
 Date : 09-07-2018
 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 : 08-06-2018
 Date of Sample Receipt : 16-06-2018
 Date of Test : 16-06-2018 to 21-06-2018
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Lab Building Near BFN Plant

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	16.9	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	340	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.42	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.74	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]	284.15	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	39.42	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.09	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	78.14	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	9.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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[Signature]

[Signature]
Rajesh Maneshwar



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TEST REPORT

Report No. : A/796
Job Identification. : A543/18-19
Date : 23-06-2018
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 : 05-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 21-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near Tiranga Pit [25°19.526" N 074°32.326"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	300	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.69	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]	335.73	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	42.51	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.77	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	89.57	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	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Parsa Ram Kudi

Parsa



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TEST REPORT

Report No.: A/799
Job Identification.: A546/18-19
Date : 23-06-2018
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 : 08-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 21-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Samodi Village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	240	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.10	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	12.43	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]	227.50	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	27.35	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	6.32	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	78.19	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)	None	1.00
12	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m ³]	8.55	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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TEST REPORT

Report No. : A/797
Job Identification : A544/18-19
Date : 23-06-2018
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 : 06-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 21-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dhulkhera Pit

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]	280	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.09	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.32	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]	288.39	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	37.74	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	8.21	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	78.02	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]	5.8	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Rajesh Maheshwari



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TEST REPORT

Report No. : A/798
Job Identification. : A545/18-19
Date : 23-06-2018
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 : 06-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 21-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near Suras Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	330	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.18	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.21	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]	290.27	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	31	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	7.39	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	81.02	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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Parsa Ram Kudi

Rajesh Maheshwar



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TEST REPORT

Report No. : A/951
Job Identification : A684/18-19
Date : 09-07-2018
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 : 23-06-2018
Date of Sample Receipt : 28-06-2018
Date of Test : 28-06-2018 to 09-07-2018
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Near Tiranga Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	380	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	18.45	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	303.71	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	33.03	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	9.89	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	85.23	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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Purushotam
Purushotam
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: A/951)



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Report No. : A/952

Job Identification. : A685/18-19

Date : 09-07-2018

Issued To : M/S Jindal Saw Limited (Dhedwas Mines)

A/952

A685/18-19

09-07-2018

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 : 24-06-2018

Date of Sample Receipt : 28-06-2018

Date of Test : 28-06-2018 to 09-07-2018

Sample Collected By : Satyendra Kumar Sharma

Point of Collection : Dhulkhera Pit

Mines

Ambient Air Quality Monitoring

24-06-2018

28-06-2018

28-06-2018 to 09-07-2018

Satyendra Kumar Sharma

Dhulkhera Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	370	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.9	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	317.16	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	45.3	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	9.01	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	82.8	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: A/952)



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Job Identification. : A/953
Date : A686/18-19
Issued To : 09-07-2018
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 : 24-06-2018
Date of Sample Receipt : 28-06-2018
Date of Test : 28-06-2018 to 09-07-2018
Sample Collected By : Sandeep Kumar Sharma
Point of Collection : Suras Pit Near Dhaba


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]	18.43	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	258.53	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	30.31	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	11.02	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	83.51	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Chhabra
Authorized Signatory
(Report No: A/953)



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TEST REPORT

Report No.: A/954
Job Identification.: A687/18-19
Date : 09-07-2018
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 : 24-06-2018
Date of Sample Receipt : 28-06-2018
Date of Test : 28-06-2018 to 09-07-2018
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Samodi Village (Near Hanuman Ji Ka Mandir)


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	230	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.46	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	257.11	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	25.62	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.91	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	69.6	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

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Purnan Mal Yogi
Senior Analyst


Purnan Mal Yogi
Authorized Signatory
(Report No: A/954)



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TEST REPORT

Report No. : W/NABL/512
Job Identification. : W374/18-19
Date : 25-06-2018
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 : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Pur Village (Near Balaji Mandir)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.63	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	540	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	311.07	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1322	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	144	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	43.74	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	207.14	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	36.05	IS 3025 (Part 34) : 1988	45.00	-

Note:

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RESULTS

Lab.: G1-584, Sitapura Industrial Area

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)
16	Fluoride [mg/l]	0.74	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	370	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	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)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Mineral oil [mg/l]	BDL(< 0.5)	IS 3025 (Part 39) : 1991	0.5	-
32	Cyanide [mg/l]	BDL(< 0.01)	IS 3025 (Part 27) : 1986	0.05	-
33	Calcium Hardness [mg/l]	360	IS 3025 (Part 40) : 1991	-	-
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	0.001	-

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Senior Analyst

Authorized Signatory
(Report No: W/NABL/512)



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TEST REPORT

Report No. : W/512
Job Identification. : W374/18-19
Date : 25-06-2018
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 : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Pur Village (Near Balaji Mandir)


RESULTS

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

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Puran Mai Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/512)



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TEST REPORT

Report No. : W/NABL/516
Job Identification. : W378/18-19
Date : 25-06-2018
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 : 10-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dariba Village (Govt. Tubewell Water-Aruvedic Dispansary)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.56	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	510	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	224.93	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	899	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	144	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	36.45	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	118.57	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	17.66	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Parsa



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JDA/UDH

Office : E-65, Chitranganj Marg,

RESULTS

Lab.: G1-584, Sitapura Industrial Area

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
	302001 Phone : 0141-2369980, 2771865 Website : www.teamtesthouse.com			Link Road, JAIPUR-302022 Raj. Ph- 94602-22039, 94602-22049 E-mail- teamtesthouse@gmail.com E-mail- testlab@teamtesthouse.com	
16	Fluoride [mg/l]	0.67	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	260	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	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)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Mineral oil [mg/l]	BDL(< 0.5)	IS 3025 (Part 39) : 1991	0.5	-
32	Cyanide [mg/l]	BDL(< 0.01)	IS 3025 (Part 27) : 1986	0.05	-
33	Calcium Hardness [mg/l]	360	IS 3025 (Part 40) : 1991	-	-
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	0.001	-

Notes :-

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Puran Mal Yogi
Senior Analyst

Authorized Signatory
(Report No: W/NABL/516)



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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/516
Job Identification. : W378/18-19
Date : 25-06-2018
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 : 10-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dariba Village (Govt. Tubewell Water-Aruvedic Dispansary)

RESULTS

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

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: W/516)



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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/514
Job Identification. : W376/18-19
Date : 25-06-2018
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 : 08-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Gandhi sagar Park Bhilwara

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	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.51	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	480	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	291.93	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1539	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	124	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	41.31	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	-
14	Sulphate [mg/l]	115.71	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	40.26	IS 3025 (Part 34) : 1988	45.00	-

Note:

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RESULTS

Lab.: G1-584, Sitapura Industrial Area

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
16	Fluoride [mg/l]	0.73	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	570	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	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)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Mineral oil [mg/l]	BDL(< 0.5)	IS 3025 (Part 39) : 1991	0.5	-
32	Cyanide [mg/l]	BDL(< 0.01)	IS 3025 (Part 27) : 1986	0.05	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(< 0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	-

Notes :-

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Puran Mal Yogi
Senior Analyst

Raj
Authorized Signatory
(Report No: W/NABL/514)



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

TEST REPORT

Report No. : W/514
Job Identification : W376/18-19
Date : 25-06-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9967/6711, Near Tirnga 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 : 08-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : GhandisagarPark -Bhilwara

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 2012 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2012	-	-
3.	Calcium Hardness [mg/l]	310	IS 3025 (Part 40) : 1991	-	-

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Purnima Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/514)



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

TEST REPORT

Report No. : W/NABL/515
 Job Identification. : W377/18-19
 Date : 25-06-2018
 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
 District : Bhilwara- 311802 (Rajasthan)
 Type of Unit : Mines
 Type of Sample : Potable and Domestic Water
 Date of Sample Collection/Monitoring : 11-06-2018
 Date of Sample Receipt : 16-06-2018
 Date of Test : 16-06-2018 to 25-06-2018
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Kanoli Village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.43	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	196	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	30.63	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	348	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	54.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	14.58	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	8.52	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	3.32	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Office : E-65, Chitrangan Marg, C. Scheme, Jaipur-302001 Phone : 0141-2369980, 2771865 Website : www.teamtesthouse.com		RESULTS		Lab.: G1-584, Sitapura Industrial Area Tonk Road, JAIPUR-302022 Raj. P.O. 4602-22039, Sanganer E-Mail: teamtesthouse@teamtesthouse.com Phone: 0141-2369980, 2771865	
S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit as per IS 10500 : 2012
16	Fluoride [mg/l]	BDL(<0.1)	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	172	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.39	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1.0	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	136	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: W/NABL/515)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/515
Job Identification : W377/18-19
Date : 25-06-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9967/6711, Near Tirnga 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 : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Kanoli Village


RESULTS

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

Notes :-

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Puran Mishra
Senior Analyst


Rajesh Mishra
Authorized Signatory
(Report No: W/515)



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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/513
Job Identification. : W375/18-19
Date : 25-06-2018
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 : 10-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Samodi Village (Bheel Basti Near Govt. Handpump front Ratan Lal Yadav Plot)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.63	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	460	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	120.6	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	823	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	128	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	34.02	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	120	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	21.13	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Office : E-65, Chitraranj Marg,

RESULTS

Lab.: G1-584, Sitapura Industrial Area

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
<p>Office : E-65, Chitraranj Marg, C. Scheme, Jaipur-302001 Phone : 0141-2369980, 2771865 Website : www.teamtesthouse.com</p>					
16	Fluoride [mg/l]	0.65	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	272	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	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)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	-
32	Mineral oil [mg/l]	BDL(< 0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(< 0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	320	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(< 0.1)	IS 13428 (Annexure K)	0.20	1.00

Notes :-

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Puran Mal Yogi
 Puran Mal Yogi
 Senior Analyst

Rajesh Mishra
 Rajesh Mishra
 Authorized Signatory
 (Report No: W/NABL/513)



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

TEST REPORT

Report No.: W/513
Job Identification.: W375/18-19
Date: 25-06-2018
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 : 10-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Samodi Village (Bheel Basti Near Govt. Handpump front Ratan Lal
Yadav Plot)


RESULTS

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

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Purnima Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/513)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/511
Job Identification. : W373/18-19
Date : 25-06-2018
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 : 10-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Village (Govt. Handpump Near Palki Rani Ka Mandir)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.05	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	570	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	186.64	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	948	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	148	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	48.6	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	63.50	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	37.22	IS 3025 (Part 34) : 1988	45.00	-

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Phone : 22039, 94151

Team Test House

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
16	Fluoride [mg/l]	0.37	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	320	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	-	-
23	Boron [mg/l]	0.42	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
29	selenium [mg/l]	BDL(< 0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Mineral oil [mg/l]	BDL(< 0.5)	IS 3025 (Part 39) : 1991	0.5	-
32	Cyanide [mg/l]	BDL(< 0.01)	IS 3025 (Part 27) : 1986	0.05	-
33	Calcium Hardness [mg/l]	370	IS 3025 (Part 40) : 1991	-	-
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	0.001	-

Notes :-

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Punit
Senior Analyst

Rajesh
Authorized Signatory
(Report No: W/NABL/511)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/511
Job Identification. : W373/18-19
Date : 25-06-2018
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 : 10-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Village (Govt. Handpump Near Palki Rani Ka Mandir)

RESULTS

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

Notes :-

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Purnan Mal Yogi
Senior Analyst


Rajesh Kumar
Authorized Signatory
(Report No: W/511)



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

TEST REPORT

Report No. : W/NABL/510
Job Identification. : W372/18-19
Date : 25-06-2018
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 : 10-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dhulkhera Village (Near NH 75)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.04	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	550	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	134	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	956	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	136	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	51.03	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	81.43	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	22.43	IS 3025 (Part 34) : 1988	45.00	-

Note:

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RESULTS

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Tonk Road, JAIPUR, 302022 Raj.

Phone : 0141-2369980, 2771865
E-mail : as per @teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit)	Standard (Permissible Limit)
				10500 : 2012	absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.85	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	360	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.49	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
29	selenium [mg/l]	BDL(< 0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Mineral oil [mg/l]	BDL(< 0.5)	IS 3025 (Part 39) : 1991	0.5	-
32	Cyanide [mg/l]	BDL(< 0.01)	IS 3025 (Part 27) : 1986	0.05	-
33	Calcium Hardness [mg/l]	340	IS 3025 (Part 40) : 1991	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(< 0.1)	IS 13428 (Annexure K)	0.2	1.00
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	-

Notes :-

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Rurang
Senior Analyst

Raj
Authorized Signatory
(Report No: W/NABL/510)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/510
Job Identification. : W372/18-19
Date : 25-06-2018
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 : 10-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dhulkhera Village (Near NH 75)


RESULTS

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

Notes :-

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Senior Analyst


Kausn Waghariwar
Authorized Signatory
(Report No: W/510)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/501
Job Identification : W379/18-19
Date : 23-06-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9967/6711, Near Tirnga 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 : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 23-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No.1

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.83	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	530	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	191.43	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1173	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	128	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	51.03	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	122.86	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	34.35	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page...

Raj



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Office : F-65, Chitranganj Marg,

RESULTS

Lab.: G1-584, Sitapura Industrial Area

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
16	Fluoride [mg/l]	1.10	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	264	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.39	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	11	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	320	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

Notes :-

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Purak Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/501)



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

TEST REPORT

Report No. : W/501
Job Identification. : W379/18-19
Date : 23-06-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9967/6711, Near Tirnga 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 : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 23-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well, No.1

RESULTS

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

Notes :-

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Puran Mal Yogi

Senior Analyst


Rajesh Moheshwari
Authorized Signatory
(Report No: W/501)



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

TEST REPORT

Report No. :	W/NABL/502	
Job Identification. :	W380/18-19	
Date :	26-06-2018	
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9967/6711, Near Tirnga 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 :	11-06-2018	
Date of Sample Receipt :	16-06-2018	
Date of Test :	16-06-2018 to 25-06-2018	
Sample Collected By :	Parsa Ram Kudi	
Point of Collection :	Piezometer Well No.2	

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	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.02	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	560	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	177.07	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1389	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	136	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	48.6	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	187.86	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	41.93	IS 3025 (Part 34) : 1988	45.00	-

Note:

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RESULTS

Lab.: G1-584, Sitapura Industrial Area

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
16	Fluoride [mg/l]	1.22	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	284	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.42	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	11	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	340	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

Notes :-

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Puran Mal Yogi

Senior Analyst

Rajesh Chohan
Authorized Signatory
(Report No: W/NABL/502)



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E-mail : director@teamtesthouse.com

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 :

W/502
W380/18-19
26-06-2018
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
District : Bhilwara- 311802 (Rajasthan)
Mines
Potable and Domestic Water
11-06-2018
16-06-2018
16-06-2018 to 25-06-2018
Parsa Ram Kudi
Piezometer Well. No.2

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 2012 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2012	-	-

Notes :-

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Puran Mal Yadav
Senior Analyst


Authorized Signatory
(Report No: W/502)



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

TEST REPORT

Report No. :	W/NABL/503	
Job Identification. :	W381/18-19	
Date :	26-06-2018	
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines)	
	Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9967/6711, Near Tirnga 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 :	11-06-2018	
Date of Sample Receipt :	16-06-2018	
Date of Test :	16-06-2018 to 25-06-2018	
Sample Collected By :	Parsa Ram Kudi	
Point of Collection :	Piezometer Well. No.3	

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	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.16	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	380	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	67	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	704	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	104	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	29.16	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	70	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	27.10	IS 3025 (Part 34) : 1988	45.00	-

Note:

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RESULTS

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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
16	Fluoride [mg/l]	0.87	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	156	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.32	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	12	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	260	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

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Puran Mal Yogi

Senior Analyst

Rajesh Maheshwan
Authorized Signatory

(Report No: W/NABL/503)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/503
Job Identification. : W381/18-19
Date : 26-06-2018
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
District : Bhilwara- 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well: No.3


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 2012 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2012	-	-

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: W/503)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. :	W/NABL/504
Job Identification. :	W382/17-18
Date :	26-06-2018
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9967/6711, Near Tirnga 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 :	11-06-2018
Date of Sample Receipt :	16-06-2018
Date of Test :	16-06-2018 to 25-06-2018
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Piezometer Well No.4

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	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.31	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	390	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	277.57	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1324	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	84	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	43.74	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	125.71	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	18.63	IS 3025 (Part 34) : 1988	45.00	-

Note:

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RESULTS

Lab.: G1-584, Sitapura Industrial Area

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
16	Fluoride [mg/l]	0.79	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	256	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.43	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	12	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	210	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

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Pooja
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/504)



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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/504
Job Identification.: W382/17-18
Date : 26-06-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.
9967/6711, Near Tirnga 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 : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No.4

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 2012 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2012	-	-

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Senior Analyst
Puran Mal Yogi


Authorized Signatory
(Report No: W/504)



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

TEST REPORT

Report No. :	W/NABL/505
Job Identification. :	W383/18-19
Date :	26-06-2018
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9967/6711, Near Tirnga 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 :	11-06-2018
Date of Sample Receipt :	16-06-2018
Date of Test :	16-06-2018 to 25-06-2018
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Piezometer Well No.5

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.43	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	450	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	272.79	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1511	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	100	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	48.6	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	149.28	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	28.32	IS 3025 (Part 34) : 1988	45.00	-

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RESULTS

Lab.: G1-584, Sitapura Industrial Area

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
16	Fluoride [mg/l]	0.84	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	260	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.41	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	9	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	250	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

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Puran Yadav
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/504)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No: W/505
Job Identification : W383/18-19
Date : 26-06-2018
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
District : Bhilwara- 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No.5

RESULTS

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

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Senior Analyst
Puran Maheshwari


Rajesh Maheshwari
Authorized Signatory
(Report No: W/505)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/506
Job Identification. : W384/18-19
Date : 26-06-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9967/6711, 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 : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Welll No.6

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.45	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	460	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	234.5	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1399	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	108	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	46.17	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	197.14	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	34.20	IS 3025 (Part 34) : 1988	45.00	-

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	1.24	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	430	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.44	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	13	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	260	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

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Puran May Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/506)



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TEST REPORT

Report No. : W/506
Job Identification. : W384/18-19
Date : 26-06-2018
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
District : Bhilwara- 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Welll No.6


RESULTS

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

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Senior Analyst Yagi


Rajesh Maheshwar
Authorized Signatory
(Report No: W/506)



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TEST REPORT

Report No. :	W/NABL/507
Job Identification. :	W385/18-19
Date :	26-06-2018
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9967/6711, Near Tirnga 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 :	11-06-2018
Date of Sample Receipt :	16-06-2018
Date of Test :	16-06-2018 to 25-06-2018
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Piezometer Well No.7

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.56	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	530	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	170.51	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1438	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	120	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	55.89	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	247.14	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	29.68	IS 3025 (Part 34) : 1988	45.00	-

Note:

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JDA/UDH

Office : E-65, Chitranjan Marg,

RESULTS

Lab.: G1-584, Sitapura Industrial Area

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
16	Fluoride [mg/l]	0.65	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	430	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.41	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	10	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	300	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

Notes :-

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Purani
Puran Mai Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/506)



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

Office : E-65, Chitranganj Marg,

C-Scheme, Jaipur-302001

Phone : 0141-2369980, 2771865

Website : www.teamtesthouse.com

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 :

TEST REPORT

W/507

W385/18-19

26-06-2018

M/S Jindal Saw Limited (Dhedwas Mines)

Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No.

9967/6711, Near Tiranga Hills, Village : Pur Tehsil : Bhilwara

District : Bhilwara- 311802 (Rajasthan)

Mines

Potable and Domestic Water

11-06-2018

16-06-2018

16-06-2018 to 25-06-2018

Parsa Ram Kudi

Piezometer Well No.7

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


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 2012 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2012	-	-

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/507)



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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/508
Job Identification. :	W386/18-19
Date :	26-06-2018
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No. 9967/6711, Near Tirnga 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 :	11-06-2018
Date of Sample Receipt :	16-06-2018
Date of Test :	16-06-2018 to 25-06-2018
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Piezometer Well No.8

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.67	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	216	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	49.77	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	502	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	49.6	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	22.36	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	40.28	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	10.56	IS 3025 (Part 34) : 1988	45.00	-

Note:

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RESULTS

Lab.: G1-584, Sitapura Industrial Area

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
16	Fluoride [mg/l]	0.74	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	164	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.48	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	16	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	124	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

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Rajesh Maheshwari
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/508)



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

TEST REPORT

Report No: W/NABL/508
Job Identification: W386/18-19
Date: 26-06-2018
Issued To: M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9967/6711, Near Tirnga 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 : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No.8

RESULTS

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

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Mahashwari
Authorized Signatory
(Report No: W/508)



TEAM TEST HOUSE

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TC-5025

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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. :	W/NABL/610
Job Identification. :	W392/18-19
Date :	06-07-2018
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara District-Bhilwara 311802 (Rajasthan)
Type of Unit :	Mines
Type of Sample :	Surface Water
Date of Sample Collection/Monitoring :	10-06-2018
Date of Sample Receipt :	16-06-2018
Date of Test :	16-06-2018 to 25-06-2018
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Meja Dam

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.49	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	84	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	28.12	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	163	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	19.2	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	8.75	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	13.72	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	6.65	IS 3025 (Part 34) : 1988

Note:

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Tonk Road, JAIPUR-302022 Raj.
Ph.: 94602-22039, 94602-22049


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.24	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	70	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.30	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Suspended Solids [mg/l]	36	IS 3025 (part 15) : 1984
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992
35	Calcium Hardness [mg/l]	48	IS 3025 (Part 40) : 1991
36	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
37	Pesticides [mg/l]	Not Detected	APHA : 2012
38	Nickel [mg/l]	BDL(<0.01)	APHA : 2012 :3111B

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Puran Mal Yojji
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/610)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. :	W/NABL/609
Job Identification. :	W391/18-19
Date :	06-07-2018
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara District-Bhilwara 311802 (Rajasthan)
Type of Unit :	Mines
Type of Sample :	Surface Water
Date of Sample Collection/Monitoring :	10-06-2018
Date of Sample Receipt :	16-06-2018
Date of Test :	16-06-2018 to 25-06-2018
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Kothari River

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.40	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	160	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	87.42	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	452	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	44	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	12.15	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	43.80	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	13.5	IS 3025 (Part 34) : 1988

Note:

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

Website : www.teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	E-mail : teamtesthouse@gmail.com Testing Protocol : director@teamtesthouse.com
16	Fluoride [mg/l]	0.55	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	170	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.42	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Suspended Solids [mg/l]	28	IS 3025 (part 15) : 1984
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
30	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994
31	Mineral oil [mg/l]	BDL (<0.5)	IS 3025 (Part 39) : 1991
32	Cyanide [mg/l]	BDL (<0.01)	IS 3025 (Part 27) : 1986
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Phenolic Compound [mg/l]	BDL (<0.001)	IS 3025 (Part 43) : 1992
35	Calcium Hardness [mg/l]	110	IS 3025 (Part 40) : 1991
36	Polynuclear aromatic Hydrocarbon [mg/l]	BDL (<0.0001)	APHA 2012 : 6440 B
37	Pesticides [mg/l]	Not Detected	APHA : 2012
38	Nickel [mg/l]	BDL (<0.01)	APHA : 2012 :3111B

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Senior Analyst


Authorized Signatory
(Report No: W/NABL/609)



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

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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/611
Job Identification. : W393/18-19
Date : 06-07-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Surface Water
Date of Sample Collection/Monitoring : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Samodi Pond

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.15	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	110	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	22.10	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	183	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	24	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	12.16	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	30.20	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	9.64	IS 3025 (Part 34) : 1988

Note:

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Ph.: 94602-22039, 94602-22049

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.41	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	50	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.28	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Suspended Solids [mg/l]	36	IS 3025 (part 15) : 1984
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992
35	Calcium Hardness [mg/l]	60	IS 3025 (Part 40) : 1991
36	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
37	Pesticides [mg/l]	Not Detected	APHA : 2012
38	Nickel [mg/l]	BDL(<0.01)	APHA : 2012 :3111B

Notes :-

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


Purnan Malhotra
Senior Analyst


Pooja Chhabra
Authorized Signatory
(Report No: W/NABL/611)



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TEST REPORT

Report No. : WW/NABL/305
Job Identification : WW258/18-19
Date : 23/06/2018
Issued to : M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines, Araji no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District - Bhilwara - 311802
Type of Unit : Mines
Type of Sample : Waste Water
Collected by : Mr. Parsha Ram Kudi
Date of Sample Collection : 14/06/2018
Date of Received : 16/06/2018
Date of Test : 16/06/2018 to 23/06/2018
Point of Collection : Tailing Filter Press Recycling

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.81
3.	Total Suspended Solids	mg/l	37
4.	Oil & Grease mg/l	mg/l	3
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	7.63
6.	Chemical Oxygen Demand	mg/l	32.6
7.	Dissolved Oxygen	mg/l	7.4
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	2.48
9.	Total Kjeldahal Nitrogen as N	mg/l	9.24
10.	Free Ammonia as NH ₃	mg/l	0.84
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	6.35
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	0.85
14.	Total Dissolved Solid (TDS)	mg/l	1855
15.	Total Phosphate as PO ₄ -P	mg/l	2.13
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL (< 0.0001)
18.	Arsenic as As	mg/l	BDL (< 0.01)
19.	Mercury as Hg	mg/l	BDL (< 0.001)
20.	Lead as Pb	mg/l	BDL (< 0.01)
21.	Cadmium as Cd	mg/l	0.003
22.	Copper as Cu	mg/l	0.02
23.	Zinc as Zn	mg/l	0.18
24.	Selenium as Se	mg/l	BDL (< 0.01)
25.	Nickel as Ni	mg/l	0.02
26.	Cynide as CN	mg/l	BDL (< 0.01)
27.	Manganese as Mn	mg/l	0.21
28.	Iron as Fe	mg/l	0.06
29.	Total Chromium as Cr	mg/l	BDL (< 0.01)

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Senior Analyst

Authorized Signatory



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TEST REPORT

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

Report No :
Job Identification :
Date :
Issued to :

: WW/NABL/306
: WW 259/18-19
: 23/06/2018
: 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
: 14/06/2018
: 14/06/2018
: 14/06/2018 to 23/06/2018
: Tailing Pond Recycling water
: APHA :2012

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	-	7.56
3.	Total Suspended Solids	mg/l	26
4.	Oil & Grease mg/l	mg/l	3
5.	Biochemical Oxygen Demand (3 days at 27 ⁰ C)	mg/l	5.28
6.	Chemical Oxygen Demand	mg/l	28.6
7.	Dissolved Oxygen	mg/l	6.5
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	4.58
9.	Total Kjeldahal Nitrogen as N	mg/l	10.4
10.	Free Ammonia as NH ₃	mg/l	0.32
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	8.15
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	0.91
14.	Total Dissolved Solid (TDS)	mg/l	1752
15.	Total Phosphate as PO ₄ -P	mg/l	0.65
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	0.01
21.	Cadmium as Cd	mg/l	0.002
22.	Copper as Cu	mg/l	0.02
23.	Zinc as Zn	mg/l	0.023
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	BDL (<0.01)
28.	Iron as Fe	mg/l	BDL (<0.01)
29.	Total Chromium as Cr	mg/l	BDL (<0.01)

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Senior Analyst

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TEST REPORT

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E-mail : director@teamtesthouse.com

Report No : WW/NABL/308
Job Identification : WW308/18-19
Date : 23/06/2018
Issued to : M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines , Arajji 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 : 14/06/2018
Date of Received : 16/06/2018
Date of Test : 16/06/2018 to 23/06/2018
Point of Collection : Siltation Pond
Testing Protocol : APHA :2012


RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.55
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	22.3
6.	Chemical Oxygen Demand	mg/l	150.4
7.	Dissolved Oxygen	mg/l	6.1
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	1.68
9.	Total Kjeldahal Nitrogen as N	mg/l	17.85
10.	Free Ammonia as NH ₃	mg/l	0.56
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	8.48
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	1.30
14.	Total Dissolved Solid (TDS)	mg/l	1658
15.	Total Phosphate as PO ₄ -P	mg/l	2.13
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL(<0.0001)
18.	Arsenic as As	mg/l	BDL(<0.01)
19.	Mercury as Hg	mg/l	BDL(<0.001)
20.	Lead as Pb	mg/l	0.02
21.	Cadmium as Cd	mg/l	0.003
22.	Copper as Cu	mg/l	0.02
23.	Zinc as Zn	mg/l	0.29
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	0.13
28.	Iron as Fe	mg/l	0.10
29.	Total Chromium as Cr	mg/l	0.03

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Senior Analyst


Authorized Signatory
(Report No: WW/36)



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Date
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: WW/NABL/309
: WW262/17-18
: 23/06/2018
: M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines , Arajai no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District – Bhilwara – 311802
: Mines
: Waste Water
: Mr. Parsha Ram Kudi
: 14/06/2018
: 16/06/2018
: 16/06/2018 to 23/06/2018
: BFN Recycling Water
: APHA 2012

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	-	7.70
3.	Total Suspended Solids	mg/l	28
4.	Oil & Grease mg/l	mg/l	3
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	7.36
6.	Chemical Oxygen Demand	mg/l	30.2
7.	Dissolved Oxygen	mg/l	7.0
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	0.48
9.	Total Kjeldahal Nitrogen as N	mg/l	7.47
10.	Free Ammonia as NH ₃	mg/l	0.45
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	6.90
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	1.36
14.	Total Dissolved Solid (TDS)	mg/l	2870
15.	Total Phosphate as PO ₄ -P	mg/l	2.42
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	0.003
22.	Copper as Cu	mg/l	BDL(<0.01)
23.	Zinc as Zn	mg/l	0.22
24.	Selenium as Se	mg/l	BDL(<0.01)
25.	Nickel as Ni	mg/l	0.03
26.	Cynide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	0.35
28.	Iron as Fe	mg/l	0.08
29.	Total Chromium as Cr	mg/l	0.01

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Senior Analyst

Authorized Signatory



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TEST REPORT

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Date
Issued to

: WW/NABL/307
: WW260/17-18
: 23/06/2018
: M/s. Jindal Saw Limited

Dhedwas Iron Ore Copper & Associated Minerals
Mines, Araji no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District - Bhilwara - 311802

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

: Mines
: Waste Water
: Mr. Parsha Ram Kudi
: 14/06/2018
: 16/06/2018
: 16/06/2018 to 23/06/2018
: STP Incoming/ Reservoir water

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	8.02
3.	Total Suspended Solids	mg/l	67
4.	Oil & Grease mg/l	mg/l	7
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	14.38
6.	Chemical Oxygen Demand	mg/l	42.3
7.	Dissolved Oxygen	mg/l	5.5
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	3.56
9.	Total Kjeldahal Nitrogen as N	mg/l	13.2
10.	Free Ammonia as NH ₃	mg/l	0.40
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	7.48
12.	Total Residual Chlorine	mg/l	BDL (<0.1)
13.	Fluoride	mg/l	1.22
14.	Total Dissolved Solid (TDS)	mg/l	1912
15.	Total Phosphate as PO ₄ =P	mg/l	1.68
16.	Sulphide as S	mg/l	BDL(<0.01)
17.	Phenolic Compound	mg/l	BDL(<0.01)
18.	Arsenic as As	mg/l	BDL(<0.01)
19.	Mercury as Hg	mg/l	BDL(<0.001)
20.	Lead as Pb	mg/l	BDL(<0.01)
21.	Cadmium as Cd	mg/l	BDL (< 0.01)
22.	Copper as Cu	mg/l	BDL(<0.01)
23.	Zinc as Zn	mg/l	0.16
24.	Selenium as Se	mg/l	BDL(<0.01)
25.	Nickel as Ni	mg/l	BDL(<0.01)
26.	Cyanide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	BDL(<0.01)
28.	Iron as Fe	mg/l	0.05
29.	Total Chromium as Cr	mg/l	BDL(<0.01)

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Puran Malogi
Senior Analyst

Raj
Rajesh Kumar



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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 N/344
Date 23/06/2018
Issued to M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines, Araj no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District - Bhilwara - 311802
(Rajasthan)
Type of Unit Mines
Date of Monitoring 08/06/2018 to 10/06/2018
Date of Sample Receipt 16/06/2018
Date of Test 16/06/2018
Sample Collected by Parsha Ram Kuri
Type of Monitoring Ambient Noise Monitoring

RESULTS


Sr. No.	Point Of Monitoring	Type of Area	Observed value [Leq dB (A)] Day Time	Observed value [Leq dB (A)] Night Time
1.	Pur Village	Rural Area	51.2	40.7
2.	Samodi Village	Rural Area	52.3	41.0
3.	Suras Village	Rural Area	50.3	38.6
4.	Gandhi Sagar park, Bhilwara	Rural Area	51.7	40.7
5.	Kanoli Village	Rural Area	50.3	38.8
6.	Dhulkhera Village	Rural Area	53.4	41.5
7.	Dariba Village	Rural Area	51.7	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

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Senior Analyst


Authorized Signatory
(Report No.: - N/344)



TEAM TEST HOUSE

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

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Website : www.teamtesthouse.com

TEST REPORT

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

Report No

N/345

Date

23/06/2018

Issued to

M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines, Arajji no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District - Bhilwara - 311802
(Rajasthan)

Type of Unit

Mines

Date of Monitoring

05/06/2018 to 10/06/2018

Date of Sample Receipt

16/06/2018

Date of Test

16/06/2018

Sample Collected by

Parsha Ram Kuri

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)	67.1	60.2
2.	Dhulkhera mines Area (10.0 m of loading Point)	62.4	56.7
3	Suras Mines Area (10.0 m of loading Point)	66.7	60.2
4	Tiranga Mines Area (10.0 m of loading Point)	67.5	58.5
5	Nr. Central Store/ Tata Blue Shed	66.7	61.6
6	Nr. Crusher (CCR Building)	69.5	61.5
7	Filter Fresh Building	67.5	61.2
8	Nr. BFN CCR Building	65.9	60.6


Standard Limits [in dB (A)] Leq:

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

Note: -

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2. 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.
3. The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.


Purnan Mishra
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No.: - N/345)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/517
Job Identification. : W387/18-19
Date : 26-06-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Surface Water
Date of Sample Collection/Monitoring : 12-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Tiranga Pit water

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.91	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	560	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	280	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	1830	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	124	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	60.70	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	105.20	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	43.6	IS 3025 (Part 34) : 1988

Note:

Continue to next page...

Raj~



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TC-5025

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JDA/UDH

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Lab.: G1-584, Sitapura Industrial Area
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Ph.: 94602-22039, 94602-22049

Website: www.teamtesthouse.com

RESULTS

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

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.43	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	550	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.50	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Suspended Solids [mg/l]	31	IS 3025 (part 15) : 1984
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992
35	Calcium Hardness [mg/l]	310	IS 3025 (Part 40) : 1991
36	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
37	Pesticides [mg/l]	Not Detected	APHA : 2012
38	Nickel [mg/l]	BDL(<0.01)	APHA : 2012 :3111B

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: W/NABL/517)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/518
Job Identification. : W388/18-19
Date : 27-06-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Surface Water
Date of Sample Collection/Monitoring : 12-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dhulkhera Pit water

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.66	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	580	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	322.54	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	1917	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	128	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	63.18	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	145	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	40.3	IS 3025 (Part 34) : 1988

Note:

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E-mail : director@teamtesthouse.com
Testing Protocol@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	BDL(<0.1)	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	570	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.44	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Suspended Solids [mg/l]	35	IS 3025 (part 15) : 1984
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992
35	Calcium Hardness [mg/l]	320	IS 3025 (Part 40) : 1991
36	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
37	Pesticides [mg/l]	Not Detected	APHA : 2012
38	Nickel [mg/l]	BDL(<0.01)	APHA : 2012 :3111B

Notes :-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/518)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/519
Job Identification. : W389/18-19
Date : 26-06-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Surface Water
Date of Sample Collection/Monitoring : 12-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 25-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Pit water

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.45	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	590	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	310	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	1742	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	132	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	60.19	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	180	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	36.21	IS 3025 (Part 34) : 1988

Note:

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Raj



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Ph : 94602-22039, 94602-22049

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.52	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	490	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.40	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Suspended Solids [mg/l]	42	IS 3025 (part 15) : 1984
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992
35	Calcium Hardness [mg/l]	330	IS 3025 (Part 40) : 1991
36	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
37	Pesticides [mg/l]	Not Detected	APHA : 2012
38	Nickel [mg/l]	BDL(<0.01)	APHA : 2012 :3111B

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Puran Majhi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/519)



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E-mail : director@teamtesthouse.com

Job Identification. :

A/806

Date :

A553/18-19

23-06-2018

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 Quality Monitoring

Date of Sample Collection/Monitoring :

10-06-2018

Date of Sample Receipt :

16-06-2018

Date of Test :

16-06-2018 to 21-06-2018

Sample Collected By :

Parsa Ram Kudi

Point of Collection :

Raw Material storage Yard (Near Weigh Bridge)


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m ³]	469.81	IS 5182 (Part 4) : 1999 Reaffirmed 2014

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Senior Analyst


Authorized Signatory
(Report No: A/806)



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Job Identification. :

A/807
A554/18-19

Date :

23-06-2018

Issued To :

M/S Jindal Saw Limited (Dhedwas Mines)

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

Type of Unit :

Mines

Type of Sample :

Fugitive Emission Quality Monitoring

Date of Sample Collection/Monitoring :

10-06-2018

Date of Sample Receipt :

16-06-2018

Date of Test :

16-06-2018 to 21-06-2018

Sample Collected By :

Parsa Ram Kudi

Point of Collection :

Haul Road - Mining Area


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m ³]	567.61	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Mishra
Authorized Signatory
(Report No: A/807)



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Job Identification. : A/808
Date : A555/18-19
Issued To : 23-06-2018
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 Quality Monitoring
Date of Sample Collection/Monitoring : 10-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 21-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Central Store Crusher Line -3

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	458.79	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Suran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: A/808)



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E-mail : director@teamtesthouse.com

Job Identification. :

A/809

Date :

A556/18-19

23-06-2018

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 Quality Monitoring

Date of Sample Collection/Monitoring :

10-06-2018

Date of Sample Receipt :

16-06-2018

Date of Test :

16-06-2018 to 21-06-2018

Sample Collected By :

Parsa Ram Kudi

Point of Collection :

Screening Area Crusher

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m ³]	461.89	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: A/809)



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TEST REPORT

Report No. : A/810
Job Identification. : A557/18-19
Date : 23-06-2018
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 Quality Monitoring
Date of Sample Collection/Monitoring : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 21-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Waste Dump Storage


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	496.97	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Purnan Mal Yogi
Senior Analyst


Rakesh Maheshwari
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(Report No: A/810)



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TEST REPORT

Report No. : W/NABL/647
Job Identification. : W390/18-19
Date : 13-07-2018
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 : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 13-07-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Ground Water BFN unit

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	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.31	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	480	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	416.36	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1868	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	124	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	41.31	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	347.14	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	43.64	IS 3025 (Part 34) : 1988	45.00	-

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
16	Fluoride [mg/l]	1.42	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	244	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.48	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	-
31	Mineral oil [mg/l]	BDL(< 0.5)	IS 3025 (Part 39) : 1991	0.5	-
32	Cyanide [mg/l]	BDL(< 0.01)	IS 3025 (Part 27) : 1986	0.05	-
33	Calcium Hardness [mg/l]	310	IS 3025 (Part 40) : 1991	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(< 0.1)	IS 13428 (Annexure K)	0.20	1.00

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/647)



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TEST REPORT

Report No. : W/647
Job Identification. : W390/18-19
Date : 13-07-2018
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 : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 13-07-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Ground Water BFN unit

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 2012 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2012	-	-

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Puran Majhi
Senior Analyst


Rajesh Maheshwari
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TEST REPORT

Report No. : ST/332
Job Identification. : ST203/18-19
Date : 23-06-2018
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 : Stack Emission Level
Date of Sample Collection/Monitoring : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 23-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : DG Set 1010 KVA

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	51.88	IS 11255 (Part 1):1985 Reaffirmed 2014	75
2	Sulphur Dioxide [mg/Nm ³]	BDL(<2.0)	IS 11255(Part 2):1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	246	IS 11255 (Part 7):1985 Redffirmed 2012	710 ppmv
4	Carbon monoxide [mg/Nm ³]	68	IS 5182 (Part 10) : 1999	150
5	Hydrocarbon [mg/Nm ³]	16	IS 5182 (Part 10) : 1999	100

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Puran Mahayogi
Senior Analyst


Rajesh Maheshwan
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(Report No: ST/332)