



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

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OHSAS 18001:2007

JDA/UDH

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TEST REPORT

Report No. : A/1523
 Job Identification : 4548/17-18
 Date : 03-10-2017
 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 : 07-09-2017
 Date of Sample Receipt : 19-09-2017
 Date of Test : 19-09-2017 to 03-10-2017
 Sample Collected By : Sandeep Kumar
 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]	10.7	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	380	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.76	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	307.07	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	37.75	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.51	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	76.5	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	Arsehic [ng/m3]	BDL (<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	15.3	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Purani
Purani Mal Yogi

Raj
Rajesh Maheshwan



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TEST REPORT

Report No. : A/1524
Job Identification. : 4549/17-18
Date : 03-10-2017
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 : 07-09-2017
Date of Sample Receipt : 19-09-2017
Date of Test : 19-09-2017 to 03-10-2017 -
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 (<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	250	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.07	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	11.54	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	169.5	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	28.77	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	7.6	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	64.59	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-alpha- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	2.5	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puranga
Puranga Mal Yogi

Rajesh
Rajesh Maheshwari



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : A/1522
Job Identification. : 4547/17-18
Date : 03-10-2017
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 06-09-2017
Date of Sample Receipt : 19-09-2017
Date of Test : 19-09-2017 to 03-10-2017
Sample Collected By : Sandeep Kumar
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 (<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	290	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.23	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.27	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	222.53	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	22.68	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	7.24	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	73.79	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	3.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puranj
Puran Mal Yogi

Raj
Rajeshwar



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TEST REPORT

Report No. : A/1526
Job Identification. : 4551/17-18
Date : 03-10-2017
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 : 08-09-2017
Date of Sample Receipt : 19-09-2017
Date of Test : 19-09-2017 to 03-10-2017
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]	13.7	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	270	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.06	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	17.94	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	14.7	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	279.36	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	26.87	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.81	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	79.74	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]	4.6	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Purnan Mal Yogi

Rajesh Maheshwan



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TEST REPORT

Report No. : A/1527
Job Identification. : 4552/17-18
Date : 03-10-2017
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 : 06-09-2017
Date of Sample Receipt : 19-09-2017
Date of Test : 19-09-2017 to 03-10-2017
Sample Collected By : Parsa Ram Kudl
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]	9.6	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	380	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.21	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	17.37	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	13.2	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	261.16	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	28.58	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.75	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	79.73	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-alpha- 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]	17.2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Purad Mal Yogi
Purad Mal Yogi

Rajesh
Rajesh Manoharwar



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TEST REPORT

Report No. : A/1525
Job Identification. : 4550/17-18
Date : 03-10-2017
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 : 07-09-2017
Date of Sample Receipt : 19-09-2017
Date of Test : 19-09-2017 to 03-10-2017
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near PMS Building

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	12.7	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	310	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	17.53	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	13.2	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	263.99	IS 5182 (Part 4) : 1989 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	36.17	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	7.66	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	67.91	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]	6.7	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Purani
Purani Mal Yogi

Rajesh
Rajesh Maheshwari



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TEST REPORT

Report No:	A/1518
Job Identification :	4543/17-18
Date:	03/10/2017
Issued to	M/s. Jindal Saw Limited (dhedwas mines) Dhedwas Iron Ore Copper & Associate Minerals mines Araji No.9697/6711, Near Tirnga Hills, Village -Pur, District Bhilwara (Rajasthan)
Type of Unit	mines
Type of Monitoring:	Ambient Air Quality Monitoring
Date of Sample Collection/ Monitoring:	05/09/2017
Date of Receipt:	19/09/2017
Date of Test:	19/09/2017 to 03/10/2017
Sample Collected By:	Parsa Ram Kudi
Point of Collection	Near Timga Pit [N 25°19.526' E 74° 32.326']

RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Ammonia [microgram/m ³]	8.6	CPCB Guidelines	400.00
2.	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
3.	Carbon Monoxide [microgram/m ³]	380	IS 5182 (Part 10) : 1999	4000
4.	Lead [microgram/m ³]	0.25	IS 5182 (Part 22) : 2004	1.00
5.	Nitrogen Dioxide [microgram/m ³]	15.73	IS 5182 (Part 6) : 2006	80.00
6.	Suspended Particulate Matter (PM10) [microgram/m ³]	228.27	IS 5182 (Part 4) : 1999	-
7.	Ozone [microgram/m ³]	13.5	APHA 1977, Part 819	100.00
8.	Particulate Matter (PM2.5) [microgram/m ³]	29.37	CPCB Guidelines	60.00
9.	Sulphur Dioxide [microgram/m ³]	7.87	IS 5182 (Part 2) : 2001	80.00
10.	Particulate Matter (PM10) [microgram/m ³]	72.81	IS 5182 (Part 23)	100.00
11.	Benzo-alfa-Pyrene [ng/m ³]	BDL(<2.0)	CPCB Guidelines	1.00
12.	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004	6.00
13.	Nickel [ng/m ³]	10.3	IS 5182 (Part 22) : 2004	20.00

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Puran Majhi
Puran Majhi
Senior Analyst

Raj
Raj Malhotra
Authorized Signatory
(Report No A/1518)



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TEST REPORT

Report No. : A/1521
 Job Identification. : 4546/17-18
 Date : 03-10-2017
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
 District-Bhilwara 311802 (Rajasthan)
 Type of Unit : Mines
 Type of Sample : Ambient Air Quality Monitoring
 Date of Sample Collection/Monitoring : 06-09-2017
 Date of Sample Receipt : 19-09-2017
 Date of Test : 19-09-2017 to 03-10-2017
 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(<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	320	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.19	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.44	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL(<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	293.53	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	24.18	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	6.82	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	88.6	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]	3.5	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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TEST REPORT

Report No. : A/1520
Job Identification. : 4545/17-18
Date : 03-10-2017
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 : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 08-09-2017
Date of Sample Receipt : 19-09-2017
Date of Test : 19-09-2017 to 03-10-2017
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	11.7	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	310	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.68	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	340.75	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	29.31	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.17	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	68.03	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	10.8	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puraj Mai Yoga
Puraj Mai Yoga

Rajesh
Rajesh Maheshwari



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TEST REPORT

Report No:	A/1519
Job Identification :	4544/17-18
Date:	03/10/2017
Issued to	M/s. Jindal Saw Limited (dhedwas mines) Dhedwas Iron Ore Copper & Associate Minerals mines Araji No.9697/6711,Near Tirnga Hills, Village -Pur, District Bhilwara (Rajasthan)
Type of Unit	mines
Type of Monitoring:	Ambient Air Quality Monitoring
Date of Sample Collection/ Monitoring:	09/09/2017
Date of Receipt:	19/09/2017
Date of Test:	19/09/2017 to 03/10/2017
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]	10.6	CPCB Guidelines	400.00
2.	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
3.	Carbon Monoxide [microgram/m ³]	350	IS 5182 (Part 10) : 1999	4000
4.	Lead [microgram/m ³]	0.22	IS 5182 (Part 22) : 2004	1.00
5.	Nitrogen Dioxide [microgram/m ³]	14.93	IS 5182 (Part 6) : 2006	80.00
6.	Suspended Particulate Matter (PM10) [microgram/m ³]	249.07	IS 5182 (Part 4) : 1999	-
7.	Ozone [microgram/m ³]	14.93	APHA 1977,Part 819	100.00
8.	Particulate Matter (PM2.5) [microgram/m ³]	33.08	CPCB Guidelines	60.00
9.	Sulphur Dioxide [microgram/m ³]	8.42	IS 5182 (Part 2) : 2001	80.00
10.	Particulate Matter (PM10) [microgram/m ³]	79.84	IS 5182 (Part 23)	100.00
11.	Benzo-alfa-Pyrene [ng/m ³]	BDL(<2.0)	CPCB Guidelines	1.00
12.	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004	6.00
13.	Nickel [ng/m ³]	9.63	IS 5182 (Part 22) : 2004	20.00

Notes :-

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Purno Mal Yogi
Senior Analyst

Rajesh Malashwari
Authorized Signatory
(Report No A/1518)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : A1528
Job Identification. : 4890/17-18
Date : 03-10-2017
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 : 25-09-2017
Date of Sample Receipt : 28-09-2017
Date of Test : 28-09-2017 to 03-10-2017
Sample Collected By : Sandeep Kumar
Point of Collection : Near Tiranga Pit [25°19.528" N 074°32.327"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	430	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.4	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	260.09	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	32.89	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.57	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	88.39	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes -

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Sandeep Kumar
Senior Analyst

Rajeshwari
Authorized Signatory
(Report No: A1528)



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TEST REPORT

Report No. : A/1531
 Job Identification. : 4893/17-18
 Date : 03-10-2017
 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 : 24-09-2017
 Date of Sample Receipt : 28-09-2017
 Date of Test : 28-09-2017 to 03-10-2017
 Sample Collected By : Sandeep Kumar
 Point of Collection : Samodi Village [25°20'53.4"N 74°32'47.7"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	210	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.3	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	217.27	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	31.88	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	5.46	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	68.77	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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Purani
 Purani Mal Yogi
 Senior Analyst

Rajesh
 Rajesh Maheshwari
 Authorized Signatory
 (Report No: A/1531)



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TEST REPORT

Report No. : A/1530
 Job Identification : 4892/17-18
 Date : 03-10-2017
 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 : 24-09-2017
 Date of Sample Receipt : 28-09-2017
 Date of Test : 28-09-2017 to 03-10-2017
 Sample Collected By : Sandeep Kumar
 Point of Collection : Suras 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]	15.68	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	154.33	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	42.31	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.47	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	78.18	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes -

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Purnima Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: A/1530)



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TEST REPORT

Report No. : A/1529
 Job Identification. : 4891/17-18
 Date : 03-10-2017
 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 : 24-09-2017
 Date of Sample Receipt : 28-09-2017
 Date of Test : 28-09-2017 to 03-10-2017
 Sample Collected By : Sandeep Kumar
 Point of Collection : Dhulkhera Pit [25°23'50.9"N 74°35'02.5"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	390	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.99	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	293.47	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	40.93	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.29	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	82.64	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

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 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: A/1529)



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TEST REPORT

Report No. : W/NABL/868
Job Identification : 4450/17-18
Date : 09-10-2017
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 : 12-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
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	6.85	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]	169.11	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	984	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	158.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	39.85	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]	153.75	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	37.5	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page..

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standards Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.50	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]	309.52	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]	0.22	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]	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]	396	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

Pooja
Authorized Signatory
(Report No: W/NABL/868)



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TEST REPORT

Report No. : W/868
Job Identification : 4450/17-18
Date : 09-10-2017
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 : 12-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
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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Senior Analyst


Authorized Signatory
(Report No: W/868)



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TEST REPORT

Report No. : W/NABL/4451
Job Identification. : 4451/17-18
Date : 09-10-2017
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 : 12-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
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	7.19	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]	222.53	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1135	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	140	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]	312.50	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	37.39	IS 3025 (Part 34) : 1988	45.00	-

Note:

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JDA/UDH

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Phone : 0141-2369980, 2771865

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	1.36	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]	0.33	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]	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]	140	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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[Signature]
Senior Analyst

[Signature]
Authorized Signatory
(Report No: W/NABL/869)



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Report No. :

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

TEST REPORT

W/869

Job Identification :

4452/17-18

Date :

09-10-2017

Issued To :

M/S Jindal Saw Limited (Dhedwas Mines)

Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9967/6711, Near Tinga 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 :

13-09-2017

Date of Sample Receipt :

18-09-2017

Date of Test :

18-09-2017 to 09-10-2017

Sample Collected By :

Parsa Ram Kudl

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	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/869)



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

TEST REPORT

Report No. :	W/NABL/870
Job Identification. :	4452/17-18
Date :	09-10-2017
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 :	13-09-2017
Date of Sample Receipt :	18-09-2017
Date of Test :	18-09-2017 to 09-10-2017
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	7.61	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	384	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.02	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	41.8	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	674	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	115.2	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	23.33	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]	138.12	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	38.83	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Parsa



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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
16	Fluoride [mg/l]	0.18	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]	161.12	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]	0.25	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]	288	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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Senior Analyst

[Signature]
Authorized Signatory
(Report No: W/NABL/870)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/870
Job Identification : 4453/17-18
Date : 09-10-2017
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 : 12-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 07-07-2017
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/870)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/875
 Job Identification : 4453/17-18
 Date : 09-10-2017
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araji 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 : 12-09-2017
 Date of Sample Receipt : 18-09-2017
 Date of Test : 18-09-2017 to 09-10-2017
 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	7.42	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	230	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]	267	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	812	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	60	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	20.24	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]	143	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	13.6	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Email : teamtesthouse@gmail.com

Email : 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
16	Fluoride [mg/l]	0.35	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]	180	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]	0.25	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]	15	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]	150	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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Rajesh Maheshwari
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/875)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/875
Job Identification. : 4453/17-18
Date : 09-10-2017
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 : 12-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
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


Authorized Signatory
(Report No: W/875)



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TEST REPORT

Report No. : W/NABL/871
Job Identification : 4454/17-18
Date : 09-10-2017
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 : 12-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
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	7.40	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	136	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]	285.02	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1120	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	22.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	19.44	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]	161.25	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	27.40	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page...

Rajeev



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Phone : 0141-2389980, 2771865

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
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	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]	182.32	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]	0.35	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]	140	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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P. V. Singh
Senior Analyst

Raj
Authorized Signatory
(Report No: W/NABL/871)



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

TEST REPORT

Report No. : W/871
Job Identification : 4454/17-18
Date : 09-10-2017
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 : 12-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
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	-	-

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: W/871)



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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/872
Job Identification : 4455/17-18
Date : 09-10-2017
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 : 12-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well 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	7.32	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	580	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.10	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	560.54	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1604	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	88	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	87.48	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]	381.25	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	31.2	IS 3025 (Part 34) : 1988	45.00	-

Note:

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	1.16	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]	413.4	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]	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]	110	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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Purni
Purni Mal Yogi
Senior Analyst

Rajiv
Authorized Signatory
(Report No: W/NABL/872)



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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/872
4455/17-18
09-10-2017
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)
Mines
Potable and Domestic Water
12-09-2017
18-09-2017
18-09-2017 to 09-10-2017
Parsa Ram Kudi
Piezometer Well 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	-	-

Notes :-

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Senior Analyst


Authorized Signatory
(Report No. W/872)



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TEST REPORT

Report No. : W/NABL/873
Job Identification. : 4456/17-18
Date : 09-10-2017
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 : 12-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
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	7.66	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]	180	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1441	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	160	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]	230.62	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	35.82	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Pajin



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Ph: 94602-22039, 94602-22049

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.71	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]	457.92	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]	400	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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Purandhar
Purandhar Mal Yogi
Senior Analyst

Purandhar
Authorized Signatory
(Report No: W/NABL/873)



TEAM TEST HOUSE

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

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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. :
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/873
4457/17-18
09-10-2017
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)
Mines
Potable and Domestic Water
12-09-2017
18-09-2017
18-09-2017 to 09-10-2017
Parsa Ram Kudl
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	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/873)



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TEST REPORT

Report No. :	W/NABL/874
Job Identification. :	4457/17-18
Date :	09-10-2017
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9967/6711, Near Timga 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 :	12-09-2017
Date of Sample Receipt :	18-09-2017
Date of Test :	18-09-2017 to 09-10-2017
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	7.44	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	80	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]	26.6	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	492	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	25.6	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]	24.75	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	22.75	IS 3025 (Part 34) : 1988	45.00	-

Note:

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	1.29	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]	182.32	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]	0.25	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]	15	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]	160	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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Senior Analyst

Authorized Signatory
(Report No: W/NABL/874)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/874
Job Identification : 4457/17-18
Date : 09-10-2017
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 : 12-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
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	-	-

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Senior Analyst


Authorized Signatory
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E-mail : director@teamtesthouse.com

TEST REPORT

Report No	: WW/679
Job Identification	: 4466/17-18
Date	: 10/10/2017
Issued to	: 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
Type of Unit	: Mines
Type of Sample	: Waste Water
Collected by	: Mr. Parsha Ram Kudi
Date of Sample Collection	: 13/09/2017
Date of Received	: 18/09/2017
Date of Test	: 18/09/2017 to 10/10/2017
Point of Collection	: Tailing Filter Press Recycling Water

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	5
2.	pH	-	6.8
3.	Total Suspended Solids	mg/l	49
4.	Oil & Grease mg/l	mg/l	4
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	8
6.	Chemical Oxygen Demand	mg/l	49.28
7.	Dissolved Oxygen	mg/l	6.9
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	1.68
9.	Total Kjeldahal Nitrogen as N	mg/l	5.6
10.	Free Ammonia as NH ₃	mg/l	0.87
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	9.23
12.	Total Residual Chlorine	mg/l	0.2
13.	Fluoride	mg/l	1.22
14.	Total Dissolved Solid (TDS)	mg/l	1760
15.	Total Phosphate as PO ₄ -P	mg/l	3.27
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	BDL (< 0.001)
22.	Copper as Cu	mg/l	BDL (< 0.01)
23.	Zinc as Zn	mg/l	0.04
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	1.02
28.	Iron as Fe	mg/l	0.05
29.	Total Chromium	mg/l	0.02

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Pooja
Pravin Mal Yogi

Pooja
Rajendra Kumar



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TEST REPORT

Report No	: WW/881
Job Identification	: 4465/17-18
Date	: 10/10/2017
Issued to	: M/s. Jindal Saw Limited
	: Dhedwas Iron Ore Copper & Associated Minerals
	: Mines , Arajai no. 9697/6711 Near Tiranga Hills
	: Village - Pur Tehsil & District – Bhiwara – 311802
Type of Unit	: Mines
Type of Sample	: Waste Water
Collected by	: Mr. Parsha Ram Kudi
Date of Sample Collection	: 13/09/2017
Date of Received	: 18/09/2017
Date of Test	: 18/09/2017 to 10/10/2017
Point of Collection	: Tailing Pond

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	5
2.	pH	-	7.52
3.	Total Suspended Solids	mg/l	30
4.	Oil & Grease mg/l	mg/l	6
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	6.3
6.	Chemical Oxygen Demand	mg/l	35.9
7.	Dissolved Oxygen	mg/l	6.2
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	4.13
9.	Total Kjeldahal Nitrogen as N	mg/l	8.55
10.	Free Ammonia as NH ₃	mg/l	0.72
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	4.36
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	1.15
14.	Total Dissolved Solid (TDS)	mg/l	1940
15.	Total Phosphate as PO ₄ -P	mg/l	3.27
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	BDL (< 0.001)
22.	Copper as Cu	mg/l	0.06
23.	Zinc as Zn	mg/l	0.18
24.	Selenium as Se	mg/l	BDL (< 0.01)
25.	Nickel as Ni	mg/l	0.05
26.	Cynide as CN	mg/l	BDL (< 0.01)
27.	Manganese as Mn	mg/l	0.15
28.	Iron as Fe	mg/l	0.18
29.	Total Chromium as Cr	mg/l	0.05

Note: -

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Signature
Senior Analyst

Signature
Authorized Signatory



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TEST REPORT

Report No	: VVV/680
Job Identification	: 4457/17-18
Date	: 10/10/2017
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	: Parsha Ram Kudi
Date of Sample Collection	: 13/09/2017
Date of Received	: 18/09/2017
Date of Test	: 18/09/2017 to 10/10/2017
Point of Collection	: STP Water Reservoir

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	5
2.	pH	-	7.39
3.	Total Suspended Solids	mg/l	15
4.	Oil & Grease mg/l	mg/l	6
5.	Biochemical Oxygen Demand (3 days at 27 ^o C)	mg/l	12.3
6.	Chemical Oxygen Demand	mg/l	66.88
7.	Dissolved Oxygen	mg/l	5.3
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	2.1
9.	Total Kjeldahal Nitrogen as N	mg/l	16.52
10.	Free Ammonia as NH ₃	mg/l	2.1
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	8.02
12.	Total Residual Chlorine	mg/l	BDL (<0.1)
13.	Fluoride	mg/l	1.40
14.	Total Dissolved Solid (TDS)	mg/l	1693
15.	Total Phosphate as PO ₄ -P	mg/l	3.61
16.	Sulphide as S	mg/l	0.45
17.	Phenolic Compound	mg/l	0.12
18.	Arsenic as As	mg/l	BDL(<0.01)
19.	Mercury as Hg	mg/l	BDL(<0.001)
20.	Lead as Pb	mg/l	0.06
21.	Cadmium as Cd	mg/l	BDL (< 0.01)
22.	Copper as Cu	mg/l	0.5
23.	Zinc as Zn	mg/l	0.25
24.	Selenium as Se	mg/l	BDL(<0.01)
25.	Nickel as Ni	mg/l	0.04
26.	Cyanide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	0.08
28.	Iron as Fe	mg/l	0.10
29.	Total Chromium as Cr	mg/l	0.04

Note: -

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Parsha Ram Kudi

Parsha Ram Kudi



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No	: WW/678
Job Identification	: 4470/17-18
Date	: 10/10/2017
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	: 13/09/2017
Date of Received	: 18/09/2017
Date of Test	: 18/09/2017 to 10/10/2017
Point of Collection	: Siltation Pond

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.38
3.	Total Suspended Solids	mg/l	56
4.	Oil & Grease mg/l	mg/l	6
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	10.3
6.	Chemical Oxygen Demand	mg/l	60.4
7.	Dissolved Oxygen	mg/l	5.8
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	7.4
9.	Total Kjeldahl Nitrogen as N	mg/l	25.9
10.	Free Ammonia as NH ₃	mg/l	0.98
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	8.12
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	1.42
14.	Total Dissolved Solid (TDS)	mg/l	1540
15.	Total Phosphate as PO ₄ -P	mg/l	3.55
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	0.05
21.	Cadmium as Cd	mg/l	BDL (< 0.001)
22.	Copper as Cu	mg/l	0.10
23.	Zinc as Zn	mg/l	0.31
24.	Selenium as Se	mg/l	BDL (< 0.01)
25.	Nickel as Ni	mg/l	0.09
26.	Cyanide as CN	mg/l	BDL (< 0.01)
27.	Manganese as Mn	mg/l	0.15
28.	Iron as Fe	mg/l	0.12
29.	Total Chromium as Cr	mg/l	0.05

Note: -

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Parsha Ram Kudi
Senior Analyst

Authorized Signatory



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TEST REPORT

Report No. : W/NABL/865
Job Identification. : 4447/17-18
Date : 09-10-2017
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 : 07-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
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	6.82	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	490	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]	280.27	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1428	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	116	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]	356.25	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	23.07	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Raja



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E-mail : teamtesthouse@gmail.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
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]	0.12	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	326.48	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	-
23	Boron [mg/l]	0.33	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	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]	290	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

Notes :-

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[Signature]

Senior Analyst

[Signature]

Authorized Signatory

(Report No: W/NABL/865)



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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/865
Job Identification. : 4447/17-18
Date : 12-10-2017
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 : 07-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
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	-	-

Notes :-

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Parsa Ram Kudi
Parsa Ram Kudi
Senior Analyst

Rajesh Kumar Shwari
Rajesh Kumar Shwari
Authorized Signatory
(Report No: W/865)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No.: W/NABL/862
 Job Identification.: 4444/17-18
 Date: 09-10-2017
 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 : 09-09-2017
 Date of Sample Receipt : 18-09-2017
 Date of Test : 18-09-2017 to 09-10-2017
 Sample Collected By : Parsa Ram Kudji
 Point of Collection : Dhulkhera 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	7.04	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]	0.14	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	100.71	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1297	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	112	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]	0.03	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]	121.42	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	15.33	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]	0.64	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]	0.01	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	95.4	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	-
23	Boron [mg/l]	0.25	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	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	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
32	Calcium Hardness [mg/l]	280.0	IS 3025 (Part 40) : 1991	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	-

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Purab Malhotra
Senior Analyst

Rajeev Malhotra
Authorized Signatory
(Report No: W/NABL/862)



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TEST REPORT


Report No. : W/862
Job Identification : 4444/17-18
Date : 09-10-2017
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 : 09-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dhulkhera 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	-	-

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Senior Analyst


Authorized Signatory
(Report No: W/862)



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TEST REPORT

Report No. : W/NABL/864
Job Identification. : 4446/17-18
Date : 09-10-2017
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajli No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 08-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
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	6.93	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]	0.07	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	460.78	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1614	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]	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]	207.50	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	16.41	IS 3025 (Part 34) : 1988	45.00	-

Note:

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E-mail : teamtesthouse@gmail.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
16	Fluoride [mg/l]	0.36	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]	0.08	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	371	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	-
23	Boron [mg/l]	0.22	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	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	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
32	Calcium Hardness [mg/l]	360	IS 3025 (Part 40) : 1991	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	-

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[Signature]
Senior Analyst

[Signature]
Authorized Signatory
(Report No: W/NABL/864)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/864
Job Identification. : 4446/17-18
Date : 09-10-2017
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 : 08-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
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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Senior Analyst

Authorized Signatory
(Report No: W/864)



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TEST REPORT

Report No. :	W/NABL/863
Job Identification. :	4445/17-18
Date :	09-10-2017
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 :	08-09-2017
Date of Sample Receipt :	12-09-2017
Date of Test :	12-09-2017 to 09-10-2017
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Dariba Vill (Near Govt. Dispensary)

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	7.36	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	490	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]	158	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	943	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]	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]	135	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	26.4	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Email : teamtesthouse@gmail.com

Email : 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
16	Fluoride [mg/l]	0.75	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]	350	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]	0.40	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]	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]	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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Rajeev
Senior Analyst

Rajeev
Authorized Signatory
(Report No: W/NABL/863)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No : W/863
Job Identification : 4445/17-18
Date : 09-10-2017
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9967/6711, Near Timga 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 : 08-09-2017
Date of Sample Receipt : 12-09-2017
Date of Test : 12-09-2017 to 09-10-2017
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dariba Vill (Near Govt Dispensary)

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/863)



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TEST REPORT

Report No. : W/NABL/867
Job Identification : 4449/17-18
Date : 09-10-2017
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 : 08-09-2017
Date of Sample Receipt : 12-09-2017
Date of Test : 12-09-2017 to 09-10-2017
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	7.22	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	140	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]	11.4	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	217	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	32	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]	7.00	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	4.43	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page...

Parsa



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Ph.: 94802-22039, 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]	0.26	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]	63.6	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]	0.28	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]	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]	80	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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Pooja
Senior Analyst

Pooja
Authorized Signatory
(Report No: W/NABL/887)



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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 :

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TEST REPORT

W/667

4449/17-16

09-10-2017

M/S Jindal Saw Limited (Dhedwas Mines)

Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9967/6711, Near Tinga Hills, Village : Pur Tehsil : Bhilwara

District : Bhilwara- 311802 (Rajasthan)

Mines

Potable and Domestic Water

08-09-2017

12-09-2017

12-09-2017 to 09-10-2017

Parsa Ram Kudi

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	-	-

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Senior Analyst


Authorized Signatory
(Report No: W667)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. :	W/NABL/876
Date :	09-10-2017
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji 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 :	08-09-2017
Date of Sample Receipt :	12-09-2017
Date of Test :	12-09-2017 to 09-10-2017
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Suras Village Palki Rani Temple

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	7.22	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]	185	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	877	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	166	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	65.61	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]	87	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	35.2	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Pajen



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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]	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]	280	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]	0.35	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]	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]	290	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
Senior Analyst

Rajesh
Authorized Signatory
(Report No: W/NABL/876)



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TEST REPORT

Report No. : W/876
Date : 09-10-2017
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 : 08-09-2017
Date of Sample Receipt : 12-09-2017
Date of Test : 12-09-2017 to 09-10-2017
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Village Palki Rani Temple

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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R. Ranjan Malhotra
Senior Analyst


Rajesh Malhotra
Authorized Signatory
(Report No: W/876)



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TEST REPORT

Report No.: W/NABL/866
 Job Identification: 4448/17-18
 Date: 09-10-2017
 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: 08-09-2017
 Date of Sample Receipt: 18-09-2017
 Date of Test: 18-09-2017 to 09-10-2017
 Sample Collected By: Parsa Ram Kudi
 Point of Collection: Ghandisagar(Park Tubewell)

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	6.92	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]	498.78	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1528	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]	72.9	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]	143.75	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	25.98	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Parsa



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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]	0.24	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]	0.11	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	288.32	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]	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]	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

Notes :-

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Purani Mal Yogi
Senior Analyst

Rajen
Authorized Signatory
(Report No: W/NABL/868)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. :	W/866
Job Identification :	4448/17-18
Date :	09-10-2017
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji 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 :	08-09-2017
Date of Sample Receipt :	12-09-2017
Date of Test :	12-09-2017 to 09-10-2017
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Ghandisagar(Park Tubewell)

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/866)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/882
Job Identification. : 4464/17-1B
Date : 12-10-2017
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 : 07-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
Sample Collected By : Sandeep Kumar
Point of Collection : Somodi 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	7.40	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	116	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	24.7	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	165	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	33.6	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	7.78	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]	31.43	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	5.82	IS 3025 (Part 34) : 1988

Note:

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Raj



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RESULTS

S. No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.13	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]	86.92	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]	11	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]	84	IS 3025 (Part 40) : 1991

Notes -

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Purac Malhotra
Senior Analyst

Rajeev
Authorized Signatory
(Report No: W/NABL/882)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/882
Job Identification : 4464/17-18
Date : 12-10-2017
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 : 07-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
Sample Collected By : Sandeep Kumar
Point of Collection : Somodi Pond


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
2	Pesticides [mg/l]	Not detected	APHA : 2012

Notes :-

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Sandeep Kumar
Senior Analyst


Rajesh Manojkumar
Authorized Signatory
(Report No: W/882)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. :	W/NABL/883
Job Identification. :	4463/17-18
Date :	09-10-2017
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 :	Surface Water
Date of Sample Collection/Monitoring :	09-09-2017
Date of Sample Receipt :	18-09-2017
Date of Test :	18-09-2017 to 09-10-2017
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Meja Dam

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	7.52	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	90	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]	22.3	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	170	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	20	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	9.72	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]	8.80	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	4.12	IS 3025 (Part 34) : 1988	45.00	-

Note:

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P. Raju



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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]	0.38	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]	68	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]	0.25	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]	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]	50	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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Ramesh
Senior Analyst

Raj
Authorized Signatory
(Report No: W/NABL/883)



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TEST REPORT

Report No. : W/883
Job Identification : 4463/17-18
Date : 09-10-2017
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 : 09-09-2017
Date of Sample Receipt : 18-09-2017
Date of Test : 18-09-2017 to 09-10-2017
Sample Collected By : Parsa Ram Kudi
Point of Collection : Meja Dam

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


Authorized Signatory
(Report No: W/883)



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TEST REPORT

Report No. : W/NABL/881
 Job Identification. : 4462/17-18
 Date : 09-10-2017
 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 : Surface Water
 Date of Sample Collection/Monitoring : 09-09-2017
 Date of Sample Receipt : 18-09-2017
 Date of Test : 18-09-2017 to 09-10-2017
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Kothari River

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	7.33	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	244	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]	95.01	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	473	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	56	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	25.27	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]	23	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	5.03	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]	0.40	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]	199.28	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]	4	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]	140	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/881)



TEAM TEST HOUSE

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

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

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

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E-mail : director@teamtesthouse.com

TEST REPORT

Report No.: W/881
Job Identification: 4462/17-18
Date: 09-10-2017
Issued To: M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9967/6711, Near Tinga 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: 09-09-2017
Date of Sample Receipt: 18-09-2017
Date of Test: 18-09-2017 to 09-10-2017
Sample Collected By: Parsa Ram Kudi
Point of Collection: Kothari River


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 :-

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


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(Report No: W/881)



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TEST REPORT

N/631

03/10/2017

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)

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

Type of Unit

Mines

Date of Monitoring

05/09/2017 to 10/09/2017

Date of Sample Receipt

19/09/2017

Date of Test

19/09/2017

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	53.7	42.5
2.	Samodi Village (Near Balaji Temple)	Rural Area	52.4	41.2
3.	Suras Village	Rural Area	50.3	40.6
4.	Gandhi Sagar park, Bhilwara	Rural Area	54.5	43.2
5.	Kanoli Village	Rural Area	47.6	39.0
6.	Dhulkhera Village	Rural Area	53.1	42.3
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

Note: -

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

Purige
Senior Analyst

Rajesh
Authorized Signatory
(Report No.: - N/631)



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RSPCB

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OHSAS 18001:2007

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TEST REPORT

Report No.

N/632

Date

03/10/2017

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

08/09/2017 to 10/09/2017

Date of Sample Receipt

19/09/2017

Date of Test

19/09/2017

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)	68.3	58.5
2.	Dhulkhera mines Area (10.0 m of loading Point)	66.5	56.8
3	Suras Mines Area (10.0 m of loading Point)	67.2	60.4
4	Tiranga Mines Area (10.0 m of loading Point)	70.6	63.6
5	Nr. Central Store/ Tata Blue Shed	70.8	59.5
6	Nr. Crusher (CCR Building)	71.6	62.6
7	Filter Fresh Building	72.5	61.2
8	Nr. BFN CCR Building	69.6	58.6

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: -

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

Purni Mel Yogi
Authorized Signatory
(Report No.: - N/632)