



TEAM TEST HOUSE

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

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

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

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TEST REPORT

Report No. : A/2280
Job Identification. : 8191/16-17
Date : 18-01-2017
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 : 03-12-2016
Date of Sample Receipt : 15-12-2016
Date of Test : 15-12-2016 to 30-12-2016
Sample Collected By : Parsa Ram Kudi
Point of Collection : Pur Village (Pyare Lal Bishnoi House)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	310	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.3	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	225.1	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	28.87	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	7.75	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m ³]	73.71	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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Puram
Puram Mat Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: A/2280)



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TEST REPORT

Report No. : A/2281
Job Identification. : 8192/16-17
Date : 18-01-2017
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 : 02-12-2016
Date of Sample Receipt : 15-12-2016
Date of Test : 15-12-2016 to 30-12-2016
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dariba Village (Gopalji House)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	240	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.72	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	168.86	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	24.39	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.48	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	63.26	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

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Purni Meher Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: A/2281)



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TEST REPORT

Report No. : A/2282
Job Identification. : 8193/16-17
Date : 31-12-2016
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 : 04-12-2016
Date of Sample Receipt : 15-12-2016
Date of Test : 15-12-2016 to 30-12-2016
Sample Collected By : Parsa Ram Kudi
Point of Collection : Gandhi sagar village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	290	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.77	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	253.03	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	30.75	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.54	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	76.19	IS 5182 (Part 23)	100.00

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Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwari
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TEST REPORT

Report No. : A/2283
Job Identification. : 8194/16-17
Date : 31-12-2016
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 : 04-12-2016
Date of Sample Receipt : 15-12-2016
Date of Test : 15-12-2016 to 30-12-2016
Sample Collected By : Parsa Ram Kudi
Point of Collection : Kanoli Village Kuldeep Singh Jat

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	170	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.57	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	180.22	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	25.67	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.3	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	60.37	IS 5182 (Part 23)	100.00

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
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TEST REPORT

Report No. : A/2285
Job Identification : 8196/16-17
Date : 30-12-2016
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 : 01-12-2016
Date of Sample Receipt : 15-12-2016
Date of Test : 15-12-2016 to 30-12-2016
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	Carbon Monoxide [microgram/m3]	390	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.15	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	367.24	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	28.43	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	8.93	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	72.8	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

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Purnan Mal Yadav
Senior Analyst


Rajesh Maheshwari
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TEST REPORT

Report No. : A/2284
Job Identification. : 8195/16-17
Date : 31-12-2016
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 : 01-12-2016
Date of Sample Receipt : 15-12-2016
Date of Test : 15-12-2016 to 30-12-2016
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near Mines Work Shop

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	360	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	15.67	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	255.6	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	29.92	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	9.59	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m ³]	80.06	IS 5182 (Part 23)	100.00

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Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: A/2284)



TEAM TEST HOUSE

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T-1763, T-2276

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TEST REPORT

Report No. : W/NABL/975
Job Identification. : 8166/16-17
Date : 19-01-2017
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 10-12-2016
Date of Sample Receipt : 14-12-2016
Date of Test : 14-12-2016 to 19-01-2017
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No. 1

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	7.25	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	488	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	680	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	1765	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	120	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	45.68	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]	297.25	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	40.02	IS 3025 (Part 34) : 1988

Note:

Continue to next page...

Rajan



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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	1.32	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]	270	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.45	IS 13428 (Annexure H)
24	Suspended Solids [mg/l]	19	IS 3025 (part 15) : 1984
25	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
27	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
28	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003

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Pusanya
Senior Analyst

Rajesh
Rajesh Maheshwari
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(Report No: W/NABL/975)



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TEST REPORT

Report No. : W/NABL/976
 Job Identification. : 8167/16-17
 Date : 19-01-2017
 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 : 10-12-2016
 Date of Sample Receipt : 14-12-2016
 Date of Test : 14-12-2016 to 19-01-2017
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Piezometer Well No. 2 (Plant Gate No.6)

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	6.96	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	532	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	165.57	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	1071	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	137.6	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	45.68	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]	170.75	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	37.04	IS 3025 (Part 34) : 1988

Note:

Continue to next page...

Signature



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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	1.05	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]	334	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.40	IS 13428 (Annexure H)
24	Suspended Solids [mg/l]	12	IS 3025 (part 15) : 1984
25	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
27	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
28	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003

Notes :-

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Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/976)



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TEST REPORT

Report No. : W/NABL/8168
 Job Identification. : 8168/16-17
 Date : 19-01-2017
 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 : 10-12-2016
 Date of Sample Receipt : 14-12-2016
 Date of Test : 14-12-2016 to 19-01-2017
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Piezometer Well No.3 (Suras Mine)

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	7.79	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	456	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	157.68	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	1024	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	105.6	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	46.66	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]	149.21	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	37.50	IS 3025 (Part 34) : 1988

Note:

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Ph.: 94602-22039, 94602-22049
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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	1.21	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]	232	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.38	IS 13428 (Annexure H)
24	Suspended Solids [mg/l]	9	IS 3025 (part 15) : 1984
25	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
27	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
28	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003

Notes :-

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

Puran Mat Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/8168)



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TEST REPORT

Report No. : W/NABL/978
 Job Identification. : 8036/16-17
 Date : 19-01-2017
 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 : Potable and Domestic Water
 Date of Sample Collection/Monitoring : 09-12-2016
 Date of Sample Receipt : 10-12-2016
 Date of Test : 10-12-2016 to 19-01-2017
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Piezometer Well No.4 (Suras Mine)

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	7.10	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	140	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	218.78	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	965	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	24	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	19.44	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	0.13	IS 3025 (Part 59)
14	Sulphate [mg/l]	110.25	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	12.6	IS 3025 (Part 34) : 1988

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.34	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]	162	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.45	IS 13428 (Annexure H)
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002
25	Suspended Solids [mg/l]	12	IS 3025 (part 15) : 1984
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
29	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003

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

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Mareshwari
Authorized Signatory
(Report No: W/NABL/978)



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TEST REPORT

Report No. : W/NABL/979
Job Identification. : 8037/16-17
Date : 19-01-2017
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 : 09-12-2016
Date of Sample Receipt : 10-12-2016
Date of Test : 10-12-2016 to 19-01-2017
Sample Collected By : Parsha Ram Kudi
Point of Collection : Piezometer Well No.5

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	7.51	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	464	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	0.02	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	471.76	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	1654	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	116.8	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	41.97	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]	350.02	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	31.36	IS 3025 (Part 34) : 1988

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	1.35	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]	408	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL (<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.28	IS 13428 (Annexure H)
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002
25	Suspended Solids [mg/l]	10	IS 3025 (part 15) : 1984
26	Total Chromium [mg/l]	0.01	APHA :2012 :3111- B
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
29	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003

Notes :-

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Purani
Purani M. Yogi
Senior Analyst

Rajesh
Rajesh Maneshwari
Authorized Signatory
(Report No: W/NABL/979)



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TEST REPORT

Report No. : W/NABL/980
Job Identification. : 8038/16-17
Date : 19-01-2017
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 : 09-12-2016
Date of Sample Receipt : 10-12-2016
Date of Test : 10-12-2016 to 19-01-2017
Sample Collected By : Parsha Ram Kudi
Point of Collection : Piezometer Well No.6 (Dhulkhera Mine)

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	7.08	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	488	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	0.01	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	199.07	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	1213	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	136	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	36.11	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]	150.02	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	34.36	IS 3025 (Part 34) : 1988

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.87	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]	476	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL (<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.38	IS 13428 (Annexure H)
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002
25	Suspended Solids [mg/l]	11	IS 3025 (part 15) : 1984
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
29	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003

Notes :-

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Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/980)



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TEST REPORT

Report No. : W/NABL/981
Job Identification. : 8039/16-17
Date : 19-01-2017
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 : 09-12-2016
Date of Sample Receipt : 10-12-2016
Date of Test : 10-12-2016 to 19-01-2017
Sample Collected By : Parsha Ram Kudi
Point of Collection : Piezometer Well No.7

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	7.75	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	80	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	134.03	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	607	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	9.6	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	13.61	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]	100.20	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	13.58	IS 3025 (Part 34) : 1988

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	1.43	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	178	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.40	IS 13428 (Annexure H)
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002
25	Suspended Solids [mg/l]	Less than 1.0	IS 3025 (part 15) : 1984
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
29	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003

Notes :-

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Purush
Purush Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/981)



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



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TEST REPORT

Report No. : W/NABL/982
 Job Identification. : 8040/16-17
 Date : 19-01-2017
 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 : 09-12-2016
 Date of Sample Receipt : 10-12-2016
 Date of Test : 10-12-2016 to 19-01-2017
 Sample Collected By : Parsha Ram Kudi
 Point of Collection : Piezometer Well No.8

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	7.28	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	172	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	29.57	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	456	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	20.8	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	29.16	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	78.60	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	15.32	IS 3025 (Part 34) : 1988

Note:

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Rajen



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Ph.: 94602-22039, 94602-22049

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	1.20	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]	220	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.38	IS 13428 (Annexure H)
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002
25	Suspended Solids [mg/l]	13	IS 3025 (part 15) : 1984
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
29	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003

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Rangan
Rangan Mal Yogi
Senior Analyst

Rajesh
Rajesh Meharwari
Authorized Signatory
(Report No: W/NABL/982)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No : WW/NABL/959
 Job Identification : 7959/16-17
 Date : 18/01/2017
 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 : 05/12/2016
 Date of Received : 07/12/2016
 Date of Test : 07/12/2016 to 18/01/2017
 Point of Collection : Tailing Pond Recycling water

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.16
3.	Total Suspended Solids	mg/l	31
4.	Oil & Grease mg/l	mg/l	5
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	4.8
6.	Chemical Oxygen Demand	mg/l	31.13
7.	Dissolved Oxygen	mg/l	7.2
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	5.88
9.	Total Kjeldahal Nitrogen as N	mg/l	8.71
10.	Free Ammonia as NH ₃	mg/l	1.18
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	4.38
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	0.76
14.	Total Dissolved Solid (TDS)	mg/l	1832
15.	Total Phosphate as PO ₄ -P	mg/l	0.32
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL(<0.001)
18.	Arsenic as As	mg/l	BDL(<0.01)
19.	Mercury as Hg	mg/l	BDL(<0.001)
20.	Lead as Pb	mg/l	0.06
21.	Cadmium as Cd	mg/l	BDL (< 0.001)
22.	Copper as Cu	mg/l	0.05
23.	Zinc as Zn	mg/l	0.13
24.	Selenium as Se	mg/l	BDL(<0.01)
25.	Nickel as Ni	mg/l	0.04
26.	Cynide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	0.03
28.	Iron as Fe	mg/l	0.09

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Purnan Mishra Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: WW/NABL/959)



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TEST REPORT

Report No	: WW/NABL/960
Job Identification	: 7962/16-17
Date	: 18/01/2017
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	: 05/12/2016
Date of Received	: 07/12/2016
Date of Test	: 07/12/2016 to 18/01/2017
Point of Collection	: Tailing Filter Press Recycling

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	5
2.	pH	-	7.52
3.	Total Suspended Solids	mg/l	47
4.	Oil & Grease mg/l	mg/l	3
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	10.2
6.	Chemical Oxygen Demand	mg/l	35.62
7.	Dissolved Oxygen	mg/l	7.0
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	3.84
9.	Total Kjeldahal Nitrogen as N	mg/l	10.4
10.	Free Ammonia as NH ₃	mg/l	0.52
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	5.14
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	0.71
14.	Total Dissolved Solid (TDS)	mg/l	1448
15.	Total Phosphate as PO ₄ -P	mg/l	2.52
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	0.03
21.	Cadmium as Cd	mg/l	BDL (< 0.001)
22.	Copper as Cu	mg/l	0.04
23.	Zinc as Zn	mg/l	0.12
24.	Selenium as Se	mg/l	BDL(<0.01)
25.	Nickel as Ni	mg/l	0.02
26.	Cynide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	0.10
28.	Iron as Fe	mg/l	0.07

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Purani
Purani Mani Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
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TEST REPORT

Report No	: WW/NABL/961
Job Identification	: 7963/16-17
Date	: 18/01/2017
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	: 05/12/2016
Date of Received	: 07/12/2016
Date of Test	: 07/12/2016 to 18/01/2017
Point of Collection	: STP Water Reservoir

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.93
3.	Total Suspended Solids	mg/l	28
4.	Oil & Grease mg/l	mg/l	3
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	7.2
6.	Chemical Oxygen Demand	mg/l	29.4
7.	Dissolved Oxygen	mg/l	5.3
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	3.08
9.	Total Kjeldahal Nitrogen as N	mg/l	10.85
10.	Free Ammonia as NH ₃	mg/l	0.61
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	7.18
12.	Total Residual Chlorine	mg/l	BDL (<0.1)
13.	Fluoride	mg/l	1.22
14.	Total Dissolved Solid (TDS)	mg/l	1645
15.	Total Phosphate as PO ₄ -P	mg/l	3.15
16.	Sulphide as S	mg/l	0.52
17.	Phenolic Compound	mg/l	0.11
18.	Arsenic as As	mg/l	BDL(<0.01)
19.	Mercury as Hg	mg/l	BDL(<0.001)
20.	Lead as Pb	mg/l	0.09
21.	Cadmium as Cd	mg/l	BDL (< 0.01)
22.	Copper as Cu	mg/l	0.12
23.	Zinc as Zn	mg/l	0.41
24.	Selenium as Se	mg/l	BDL(<0.01)
25.	Nickel as Ni	mg/l	0.08
26.	Cynide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	0.15
28.	Iron as Fe	mg/l	0.17

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Purush Mehta
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: WW/NABL/961)



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TEST REPORT

Report No. : W/NABL/963
Job Identification. : 7954/16-17
Date : 18-01-2017
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 : Cement Plant
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 05-12-2016
Date of Sample Receipt : 07-12-2016
Date of Test : 07-12-2016 to 18-01-2017
Sample Collected By : Parsa Ram Kudi
Point of Collection : Kanoli Village (Govt.Handpump water of Govt. Middle school)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	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	7.85	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	120	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]	9.86	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	220	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]	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]	28.93	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	2.48	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]	0.41	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	160	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]	0.29	IS 13428 (Annexure H)	0.5	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	1	IS 3025 (part 15) : 1984	-	-
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	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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Senior Analyst

Rajesh
Rajesh Maheshwari
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(Report No: W/NABL/963)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/962
Job Identification. : 7952/16-17
Date : 18-01-2017
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 : Cement Plant
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 04-12-2016
Date of Sample Receipt : 07-12-2016
Date of Test : 07-12-2016 to 18-01-2017
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	7.24	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	500	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]	175.42	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	920	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	152	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	29.16	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	143.10	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	36.44	IS 3025 (Part 34) : 1988	45.00	-

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Signature



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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]	0.59	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	348	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	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	4	IS 3025 (part 15) : 1984	-	-
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	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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Puran Mal Yogi
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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/960
Job Identification. : 7947/16-17
Date : 18-01-2017
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 : 03-12-2016
Date of Sample Receipt : 07-12-2016
Date of Test : 07-12-2016 to 18-01-2017
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	7.40	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	576	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]	204.99	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1139	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	169.6	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	36.94	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]	237.93	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	32.02	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Bajaj



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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]	0.45	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	310	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	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	4	IS 3025 (part 15) : 1984	-	-
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	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

Notes :-

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

Purah Mal Yogi
Purah Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/960)



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TEST REPORT

Report No. : W/NABL/964
Job Identification. : 7956/16-17
Date : 18-01-2017
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 : Cement Plant
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 05-12-2016
Date of Sample Receipt : 07-12-2016
Date of Test : 07-12-2016 to 18-01-2017
Sample Collected By : Parsa Ram Kudi
Point of Collection : Gandhi sagar village (Tubewell water of Gandhi park)

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]	464	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]	510.49	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1567	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	96.00	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	50.17	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]	258.62	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	20.38	IS 3025 (Part 34) : 1988	45.00	-

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.68	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	408	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	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	6	IS 3025 (part 15) : 1984	-	-
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	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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Puran Maiyogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/964)



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TEST REPORT

Report No. : W/NABL/959
 Job Identification. : 7946/16-17
 Date : 18-01-2017
 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 : 03-12-2016
 Date of Sample Receipt : 07-12-2016
 Date of Test : 07-12-2016 to 18-01-2017
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Dariba Village (Govt. Tubewell Water-Aruvedic Dispansary)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.34	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	500	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.05	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	183.3	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	983	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	137.6	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	37.91	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]	169.00	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	10.88	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]	0.70	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	400	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]	0.34	IS 13428 (Annexure H)	0.5	1.00
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
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	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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Puran Mal Yogi
Senior Analyst

Rajesh Malleshwari
Authorized Signatory
(Report No: W/NABL/959)



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TEST REPORT

Report No. : W/NABL/955
 Job Identification. : 7942/16-17
 Date : 18-01-2017
 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 : 03-12-2016
 Date of Sample Receipt : 07-12-2016
 Date of Test : 07-12-2016 to 18-01-2017
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Dhulkhera (Near NH- 79)

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	7.23	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	488	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.06	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	108.41	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	922	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	192	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	38.88	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]	87.20	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	28.50	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]	0.56	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]	0.15	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	376	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.48	IS 13428 (Annexure H)	0.5	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	3	IS 3025 (part 15) : 1984	-	-
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	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Manojwari
Rajesh Manojwari
Authorized Signatory
(Report No: W/NABL/955)



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TEST REPORT

Report No. : W/NABL/956
Job Identification. : 7943/16-17
Date : 18-01-2017
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 : 03-12-2016
Date of Sample Receipt : 07-12-2016
Date of Test : 07-12-2016 to 18-01-2017
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Village (Govt. Handpump Near Palki Rani Ka Mandir)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.25	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	572	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.15	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	216.81	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	925	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	179.2	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	30.13	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	81.03	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	34.50	IS 3025 (Part 34) : 1988	45.00	-

Note:

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E-mail : director@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.62	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]	0.15	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	302	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.39	IS 13428 (Annexure H)	0.5	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	7	IS 3025 (part 15) : 1984	-	-
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	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/956)



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TEST REPORT

Report No. : W/NABL/957
 Job Identification. : 7944/16-17
 Date : 18-01-2017
 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 : Potable and Domestic Water
 Date of Sample Collection/Monitoring : 03-12-2016
 Date of Sample Receipt : 07-12-2016
 Date of Test : 07-12-2016 to 18-01-2017
 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	7.27	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	92	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]	33.51	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	266	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]	8.75	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]	15.69	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	1.42	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]	0.46	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	96	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]	0.45	IS 13428 (Annexure H)	0.5	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	4	IS 3025 (part 15) : 1984	-	-
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	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/957)



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TEST REPORT

Report No. : W/NABL/958
Job Identification. : 7945/16-17
Date : 18-01-2017
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 : 03-12-2016
Date of Sample Receipt : 07-12-2016
Date of Test : 07-12-2016 to 18-01-2017
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	7.73	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	88	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]	13.8	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	151	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	33.6	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	Less than 1	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]	28.10	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	14.12	IS 3025 (Part 34) : 1988	45.00	-

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.45	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	106	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	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	1	IS 3025 (part 15) : 1984	-	-
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	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/958)



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TEST REPORT

Report No. : W/NABL/961
 Job Identification. : 7948/16-17
 Date : 18-01-2017
 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 : Potable and Domestic Water
 Date of Sample Collection/Monitoring : 03-12-2016
 Date of Sample Receipt : 07-12-2016
 Date of Test : 07-12-2016 to 18-01-2017
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Somodi Pond

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	7.73	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	112	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]	17.74	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	192	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	35.2	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	5.83	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]	30.69	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	14.26	IS 3025 (Part 34) : 1988	45.00	-

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
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	-
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]	100	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	1.00
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	2	IS 3025 (part 15) : 1984	-	-
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	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/961)



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TEST REPORT

Report No. : A/2276
Job Identification. : 8187/16-17
Date : 31-12-2016
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 : 01-12-2016
Date of Sample Receipt : 15-12-2016
Date of Test : 15-12-2016 to 30-12-2016
Sample Collected By : Parsa Ram Kudi
Point of Collection : Tiranga Pit (Mining Area)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	460	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m3]	16.3	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	294.79	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM _{2.5}) [microgram/m3]	33.31	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	10.12	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	79.49	IS 5182 (Part 23)	100.00

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
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TEST REPORT

Report No. : A/2279
Job Identification. : 8190/16-17
Date : 31-12-2016
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 : 02-12-2016
Date of Sample Receipt : 15-12-2016
Date of Test : 15-12-2016 to 30-12-2016
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	Carbon Monoxide [microgram/m ³]	260	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.23	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	211.1	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	27.52	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	6.57	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m ³]	67.94	IS 5182 (Part 23)	100.00

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Puran Mat Yogi
Senior Analyst

Rajesh Maheshwari
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TEST REPORT

Report No. : A/2277
Job Identification. : 8188/16-17
Date : 31-12-2016
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 : 03-12-2016
Date of Sample Receipt : 15-12-2016
Date of Test : 15-12-2016 to 30-12-2016
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Pit Near Dhaba

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	430	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	16.06	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	265.95	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	31.37	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.63	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	82.75	IS 5182 (Part 23)	100.00

Notes :-

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Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: A/2277)



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TEST REPORT

Report No. : A/2278
Job Identification. : 8189/16-17
Date : 31-12-2016
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 : 02-12-2016
Date of Sample Receipt : 15-12-2016
Date of Test : 15-12-2016 to 30-12-2016
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	Carbon Monoxide [microgram/m3]	380	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	16.13	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	301.25	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	33.18	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	8.78	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	85.61	IS 5182 (Part 23)	100.00

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: A/2278)



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TEST REPORT

Report No. : A/2378
Job Identification. : 8993/16-17
Date : 18-01-2017
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 : 27-12-2016
Date of Sample Receipt : 03-01-2017
Date of Test : 03-01-2017 to 18-01-2017
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Tiranga Pit (Mining Face)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	370	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.52	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	247.76	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	32.55	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.72	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	79.17	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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Puran Mat Yogi
Senior Analyst


Rajesh Maheohwari
Authorized Signatory
(Report No: A/2378)



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TEST REPORT

Report No. : A/2379
Job Identification. : 8994/16-17
Date : 18-01-2017
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)
Mines
Type of Unit : Ambient Air Quality Monitoring
Type of Sample :
Date of Sample Collection/Monitoring : 27-12-2016
Date of Sample Receipt : 03-01-2017
Date of Test : 03-01-2017 to 18-01-2017
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Samodi Village (Near Hanuman Ji Ka Mandir)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	190	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.36	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	224.15	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	26.53	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	7.5	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m ³]	64.44	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

- Notes :-
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Puran Maheshwari
Puran Maheshwari
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: A/2379)



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TEST REPORT

Report No. : A/2380
Job Identification. : 8995/16-17
Date : 18-01-2017
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 : 28-12-2016
Date of Sample Receipt : 03-01-2017
Date of Test : 03-01-2017 to 18-01-2017
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Suras Pit Near Dhaba

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	350	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.13	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	228.92	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	22.45	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.05	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	76.43	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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Puran
Puran Mat Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
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TEST REPORT

Report No. : A/2381
Job Identification. : 8996/16-17
Date : 18-01-2017
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 : 27-12-2016
Date of Sample Receipt : 03-01-2017
Date of Test : 03-01-2017 to 18-01-2017
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Dhulkhera Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	390	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	16.79	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	350.62	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	35.53	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	7.45	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	77.11	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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TEST REPORT

N/1061

Date: 30/12/2016
Issued to: M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines, Araji no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District - Bhilwara - 311802
(Rajasthan)
Type of Unit: Mines
Date of Monitoring: 02/12/2016 to 08/12/2016
Date of Sample Receipt: 12/12/2016
Date of Test: 12/12/2016
Sample Collected by: Satyendra Kumar
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)	69.2	60.3
2.	Dhulkhera mines Area (10.0 m of loading Point)	66.5	57.8
3.	Suras Mines Area (10.0 m of loading Point)	68.4	56.2
4.	Tiranga Mines Area (10.0 m of loading Point)	70.2	62.5
5.	Nr. Tata Blue Scope Shed	68.4	59.2
6.	Nr. Crusher (CCR Building)	70.3	61.3
7.	Filter Fresh Building	71.5	63.2
8.	Nr. BENTONITE CCR Building	70.5	65.4

Standard Limits [in dB (A)] Leq:

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

Note: -

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Puran Mal Xbgi
Puran Mal Xbgi
Senior Analyst

Rajesh Maheohwart
Rajesh Maheohwart
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TEST REPORT

N/1060

30/12/2016

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)

Mines

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Issued to

Type of Unit

Date of Monitoring

Date of Sample Receipt

Date of Test

Sample Collected by

Type of Monitoring

02/12/2016 to 06/12/2016

12/12/2016

12/12/2016

Satyendra Kumar

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	53.8	42.2
2.	Samodi Village (Near Balaji Temple)	Rural Area	49.3	40.5
3.	Suras Village	Rural Area	48.5	38.6
4.	Gandhi Sagar park, Bhilwara	Rural Area	54.2	43.5
5.	Kanoli Village	Rural Area	48.2	38.2
6.	Dhulkhera Village	Rural Area	50.6	41.3
7.	Dariba Village	Rural Area	52.4	40.2

Standard Limits [in dB (A)] Leq

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

Note: -

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

Rajesh Maheshwari
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(Report No.: - N/1060)