



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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OHSAS 18001:2007

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TEST REPORT

Report No.: A/1532
Job Identification.: 5494/16-17
Date: 07-10-2016
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 : 12-09-2016
Date of Sample Receipt : 20-09-2016
Date of Test : 20-09-2016 to 07-10-2016
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Pur Village Shree Pyare Lal Visnoi Balaji Contractor's House in Pur

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	290	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	15.25	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	231.85	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	24.74	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	6.96	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m ³]	69.17	IS 5182 (Part 23)	100.00

Notes :-

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


Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: A/1532)



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TEST REPORT

Report No. : A/1533
Job Identification. : 5495/16-17
Date : 07-10-2016
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 : 11-09-2016
Date of Sample Receipt : 20-09-2016
Date of Test : 20-09-2016 to 07-10-2016
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Dariba Village (Hariram House)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	180	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.84	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	184.54	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM2.5) [microgram/m3]	25.49	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	5.34	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	65.95	IS 5182 (Part 23)	100.00

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TEST REPORT

Report No. : A/1534
Job Identification. : 5496/16-17
Date : 07-10-2016
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 : 14-09-2016
Date of Sample Receipt : 20-09-2016
Date of Test : 20-09-2016 to 07-10-2016
Sample Collected By : Satyendra Kumar Sharma
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]	240	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.63	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	256.57	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM2.5) [microgram/m3]	30.51	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.55	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	75.76	IS 5182 (Part 23)	100.00

Notes :-

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TEST REPORT

Report No.: A/1535
Job Identification.: 5497/16-17
Date: 07-10-2016
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 : 13-09-2016
Date of Sample Receipt : 20-09-2016
Date of Test : 20-09-2016 to 07-10-2016
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Kanoli Village (Kuldeep singh house -On Roof)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	210	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	11.25	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	198.44	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	26.15	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	4.71	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m ³]	55.81	IS 5182 (Part 23)	100.00

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Senior Analyst


Rajesh Maheshwari
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TEST REPORT

Report No. : A/1536
Job Identification. : 5498/16-17
Date : 07-10-2016
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 : 13-09-2016
Date of Sample Receipt : 20-09-2016
Date of Test : 20-09-2016 to 07-10-2016
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Mines Workshop (Near CIL Camp)

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 NO2 [microgram/m3]	14.75	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	245.65	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM2.5) [microgram/m3]	32.43	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.98	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	79.9	IS 5182 (Part 23)	100.00

Notes :-

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Purnan Mal Yogi
Senior Analyst


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TEST REPORT

Report No. : A/1537
Job Identification. : 5499/16-17
Date : 07-10-2016
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 : 13-09-2016
Date of Sample Receipt : 20-09-2016
Date of Test : 20-09-2016 to 07-10-2016
Sample Collected By : Satyendra Kumar Sharma
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]	15.25	IS 5182 (Part 6) : 2006	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	30.31	CPCB Guidelines	60.00
4	Sulphur Dioxide [microgram/m3]	7.91	IS 5182 (Part 2) : 2001	80.00
5	Particulate Matter (PM 10) [microgram/m3]	80.67	IS 5182 (Part 23)	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	229.62	IS 5182 (Part 4) : 1999	500

Notes :-

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Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwari
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(Report No: A/1537)



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TEST REPORT

Report No. : WW/NABL/712
 Job Identification : 5435/16-17
 Date : 18-10-2016
 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 : Potable and Domestic Water
 Date of Sample Collection/Monitoring : 16-09-2016
 Date of Sample Receipt : 19-09-2016
 Date of Test : 19-09-2016 to 18-10-2016
 Sample Collected By : Satyendra Kumar Sharma
 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 5.0	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	7.82	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]	0.02	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	703.04	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1888	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	128	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	58.32	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]	280.02	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	37.79	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.26	IS 3025 (Part 60)	1.00	1.50

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	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
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]	0.04	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]	268	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]	0.38	IS 13428 (Annexure H)	0.5	1.00
24	Suspended Solids [mg/l]	Less than 1.0	IS 3025 (part 15) : 1984	-	-
25	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
27	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
28	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003	0.02	-

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Punam K. Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: VVV/NABL/712)



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TEST REPORT

Report No. : W/NABL/713
Job Identification. : 5436/16-17
Date : 18-10-2016
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 16-09-2016
Date of Sample Receipt : 19-09-2016
Date of Test : 19-09-2016 to 17-10-2016
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Piezometer Well No. 2 (Plant Gate No.6)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5.0	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.43	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	472	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]	76	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	858	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	128	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	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]	0.04	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	56.71	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	18.41	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]	0.76	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]	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]	384	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	Suspended Solids [mg/l]	24	IS 3025 (part 15) : 1984	-	-
25	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
27	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
28	Nickel [mg/l]	0.03	IS 3025 (Part 54) : 2003	0.02	-

Notes :-

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Puray
Puray M. S. Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/713)



TEAM TEST HOUSE

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

TEST REPORT

Report No. : W/NABL/714
Job Identification. : 5437/16-17
Date : 18-10-2016
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 16-09-2016
Date of Sample Receipt : 19-09-2016
Date of Test : 19-09-2016 to 18-10-2016
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Piezometer Well No.3 (Suras Mine)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5.0	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	7.29	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	300	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]	70.3	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	520	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	76.8	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	26.24	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]	54.78	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	19.44	IS 3025 (Part 34) : 1988	45.00	-

Note:

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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]	0.42	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	0.04	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]	0.25	IS 13428 (Annexure H)	0.5	1.00
24	Suspended Solids [mg/l]	29	IS 3025 (part 15) : 1984	-	-
25	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
27	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
28	Nickel [mg/l]	0.01	IS 3025 (Part 54) : 2003	0.02	-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/714)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/715
Job Identification. : 5438/16-17
Date : 18-10-2016
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 16-09-2016
Date of Sample Receipt : 19-09-2016
Date of Test : 19-09-2016 to 18-10-2016
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Piezometer Well No.4 (Suras Mine)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5.0	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]	180	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]	218.51	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	939	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]	24.3	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]	86.09	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	18.14	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]	0.23	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]	116	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)	1.00	5.00
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]	13	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	-
29	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003	0.02	-

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Purjan
Purjan Maheshwari
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/715)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/716
 Job Identification. : 5439/16-17
 Date : 18-10-2016
 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 : Potable and Domestic Water
 Date of Sample Collection/Monitoring : 16-09-2016
 Date of Sample Receipt : 19-09-2016
 Date of Test : 19-09-2016 to 18-10-2016
 Sample Collected By : Satyendra Kumar Sharma
 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 5.0	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	7.80	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]	0.08	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	437.03	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1996	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	136	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	51.03	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	0.03	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	383.19	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	22.49	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]	2.11	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]	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]	396	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]	0.36	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]	12	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	-
29	Nickel [mg/l]	0.03	IS 3025 (Part 54) : 2003	0.02	-

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Puranshu Maheshwari
Senior Analyst

Raja
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/716)



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TEST REPORT

Report No. : W/NABL/717
Job Identification. : 5440/16-17
Date : 18-10-2016
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 16-09-2016
Date of Sample Receipt : 19-09-2016
Date of Test : 19-09-2016 to 18-10-2016
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Piezometer Well No.6 (Dhulkhera Mine)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5.0	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]	580	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]	171.01	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1122	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]	53.46	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]	182.92	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	36.12	IS 3025 (Part 34) : 1988	45.00	-

Note:

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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	Standards (Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012)
16	Fluoride [mg/l]	0.84	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	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]	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]	0.24	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]	20	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	-
29	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003	0.02	-

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Rajesh Maheshwari
Senior Analyst

Rajesh
Authorized Signatory
(Report No: W/NABL/717)



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TEST REPORT

Report No. : WWW/NABL/718
Job Identification. : 5441/16-17
Date : 18-10-2016
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 16-09-2016
Date of Sample Receipt : 19-09-2016
Date of Test : 19-09-2016 to 18-10-2016
Sample Collected By : Satyendra Kumar Sharma
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 5.0	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.63	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	108	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]	104.51	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	491	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	30.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	7.78	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]	45.50	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	12.95	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.10	IS 3025 (Part 60)	1.00	1.50

Note:

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Rajan



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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	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
17	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
18	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994	0.01	-
19	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
20	Alkalinity - T [mg/l]	88	IS 3025 (Part 23) : 1986	200.00	600.00
21	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
22	Boron [mg/l]	0.24	IS 13428 (Annexure H)	0.5	1.00
23	Suspended Solids [mg/l]	8	IS 3025 (part 15) : 1984	-	-
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
26	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
27	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003	0.02	-

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Pooja
Senior Analyst

Rajesh
Authorized Signatory
(Report No: WW/NABL/718)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : WW/NABL/719
Job Identification. : 5442/16-17
Date : 18-10-2016
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 16-09-2016
Date of Sample Receipt : 19-09-2016
Date of Test : 19-09-2016 to 18-10-2016
Sample Collected By : Satyendra Kumar Sharma
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 5.0	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]	204	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.01	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	32.3	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	509	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]	15.55	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]	61.09	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	23.29	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.42	IS 3025 (Part 60)	1.00	1.50

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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	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
17	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
18	Lead [mg/l]	0.01	IS 3025 (Part 47) : 1994	0.01	-
19	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
20	Alkalinity - T [mg/l]	180	IS 3025 (Part 23) : 1986	200.00	600.00
21	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
22	Boron [mg/l]	0.48	IS 13428 (Annexure H)	0.5	1.00
23	Suspended Solids [mg/l]	19	IS 3025 (part 15) : 1984	-	-
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
26	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
27	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003	0.02	-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/719)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : WW/NABL/665.
Job Identification : 5453/16-17
Date : 14/10/2016
Issued to : M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines, Araj no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District - Bhilwara - 311802
Type of Unit : Mines
Type of Sample : Waste Water
Collected by : Mr. Satyendra Kumar
Date of Sample Collection : 18/09/2016
Date of Received : 19/09/2016
Date of Test : 19/09/2016 to 14/10/2016
Point of Collection : Tailing Pond Recycling Water

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	20
2.	pH	-	7.69
3.	Total Suspended Solids	mg/l	27
4.	Oil & Grease mg/l	mg/l	5
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	12.33
6.	Chemical Oxygen Demand	mg/l	46.85
7.	Dissolved Oxygen	mg/l	6.7
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	7.25
9.	Total Kjeldahal Nitrogen as N	mg/l	15.20
10.	Free Ammonia as NH ₃	mg/l	0.85
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	6.50
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	1.53
14.	Total Dissolved Solid (TDS)	mg/l	2874
15.	Total Phosphate as PO ₄ -P	mg/l	2.36
16.	Sulphide as S	mg/l	0.68
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	0.04
21.	Cadmium as Cd	mg/l	BDL (< 0.001)
22.	Copper as Cu	mg/l	0.11
23.	Zinc as Zn	mg/l	1.22
24.	Selenium as Se	mg/l	BDL (<0.01)
25.	Nickel as Ni	mg/l	0.03
26.	Cynide as CN	mg/l	BDL (<0.01)
27.	Manganese as Mn	mg/l	0.15
28.	Iron as Fe	mg/l	0.26

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Ravi
Senior Analyst

Rajesh
Authorized Signatory
(Report No: WW/NABL/665)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No : WW/NABL/666
Job Identification : 5354/16-17
Date : 14/10/2016
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
Type of Unit : Mines
Type of Sample : Waste Water
Collected by : Mr. Satyendra Kumar
Date of Sample Collection : 18/09/2016
Date of Received : 19/09/2016
Date of Test : 19/09/2016 to 14/10/2016
Point of Collection : Tailing Filter Press Recycling

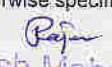
RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	25
2.	pH	-	7.48
3.	Total Suspended Solids	mg/l	36
4.	Oil & Grease mg/l	mg/l	5
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	10.26
6.	Chemical Oxygen Demand	mg/l	38.24
7.	Dissolved Oxygen	mg/l	6.4
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	8.22
9.	Total Kjeldahal Nitrogen as N	mg/l	17.3
10.	Free Ammonia as NH ₃	mg/l	2.14
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	8.63
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	1.43
14.	Total Dissolved Solid (TDS)	mg/l	2587
15.	Total Phosphate as PO ₄ -P	mg/l	3.16
16.	Sulphide as S	mg/l	0.55
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	0.10
21.	Cadmium as Cd	mg/l	BDL (< 0.001)
22.	Copper as Cu	mg/l	0.15
23.	Zinc as Zn	mg/l	0.93
24.	Selenium as Se	mg/l	BDL (< 0.01)
25.	Nickel as Ni	mg/l	0.05
26.	Cyanide as CN	mg/l	BDL (< 0.01)
27.	Manganese as Mn	mg/l	0.17
28.	Iron as Fe	mg/l	0.20

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P. Anand Yogi
Senior Analyst


Rajesh Kishanwar
Authorized Signatory
(Report No: WW/NABL/666)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : WW/NABL/667
Job Identification : 5455/16-17
Date : 14/10/2016
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
Type of Unit : Mines
Type of Sample : Waste Water
Collected by : Mr. Satyendra Kumar
Date of Sample Collection : 18/09/2016
Date of Received : 19/09/2016
Date of Test : 19/09/2016 to 14/10/2016
Point of Collection : STP Water Reservoir

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	20
2.	pH	-	7.84
3.	Total Suspended Solids	mg/l	47
4.	Oil & Grease mg/l	mg/l	5
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	16.38
6.	Chemical Oxygen Demand	mg/l	74.25
7.	Dissolved Oxygen	mg/l	4.6
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	4.31
9.	Total Kjeldahal Nitrogen as N	mg/l	14.8
10.	Free Ammonia as NH ₃	mg/l	1.25
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	7.84
12.	Total Residual Chlorine	mg/l	BDL (<0.1)
13.	Fluoride	mg/l	1.78
14.	Total Dissolved Solid (TDS)	mg/l	3261
15.	Total Phosphate as PO ₄ -P	mg/l	3.65
16.	Sulphide as S	mg/l	0.98
17.	Phenolic Compound	mg/l	0.20
18.	Arsenic as As	mg/l	BDL (<0.01)
19.	Mercury as Hg	mg/l	BDL (<0.001)
20.	Lead as Pb	mg/l	0.14
21.	Cadmium as Cd	mg/l	BDL (<0.01)
22.	Copper as Cu	mg/l	0.17
23.	Zinc as Zn	mg/l	0.85
24.	Selenium as Se	mg/l	BDL (<0.01)
25.	Nickel as Ni	mg/l	0.06
26.	Cynide as CN	mg/l	BDL (<0.01)
27.	Manganese as Mn	mg/l	0.12
28.	Iron as Fe	mg/l	0.19

Note: -

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Purnima M. Yogi
Senior Analyst


Authorized Signatory
(Report No: WW/NABL/667)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/694
 Job Identification. : 5447/16-17
 Date : 14-10-2016
 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 : Potable and Domestic Water
 Date of Sample Collection/Monitoring : 16-09-2016
 Date of Sample Receipt : 19-09-2016
 Date of Test : 19-09-2016 to 14-10-2016
 Sample Collected By : Satyendra Kumar Sharma
 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	7.55	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	408	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]	150.11	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	902	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	134.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	17.5	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	125.42	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	24.65	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]	0.65	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	328	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	1.00
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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Purushottam
Purushottam Malhotra
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/694)



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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/696
Job Identification. : 5449/16-17
Date : 14-10-2016
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 16-09-2016
Date of Sample Receipt : 19-09-2016
Date of Test : 19-09-2016 to 14-10-2016
Sample Collected By : Satyendra Kumar Sharma
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	7.41	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	396	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]	370.52	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1367	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	78.4	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]	246.28	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	38.46	IS 3025 (Part 34) : 1988	45.00	-

Note:

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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]	0.52	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]	0.11	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	416	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]	20	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.

Puran Mal Nogi
Puran Mal Nogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/696)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/695
 Job Identification. : 5448/16-17
 Date : 14-10-2016
 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 : Potable and Domestic Water
 Date of Sample Collection/Monitoring : 16-09-2016
 Date of Sample Receipt : 19-09-2016
 Date of Test : 19-09-2016 to 14-10-2016
 Sample Collected By : Satyendra Kumar Sharma
 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	7.09	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	144	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]	19	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	251	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	38.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	11.66	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]	24.00	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	4.81	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]	0.39	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]	0.02	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	128	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]	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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Pooja
Senior Analyst

Rajesh
Authorized Signatory
(Report No: W/NABL/695)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/698
Job Identification. : 5443/16-17
Date : 14-10-2016
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 15-09-2016
Date of Sample Receipt : 19-09-2016
Date of Test : 19-09-2016 to 14-10-2016
Sample Collected By : Satyendra Kumar Sharma
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	7.50	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]	0.02	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	323.02	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]	180	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	31.59	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]	0.04	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	380.10	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	41.62	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]	1.23	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]	368	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]	0.38	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 Mani Yogi
Puran Mani Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/698)



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TEST REPORT

Report No. : W/NABL/693
Job Identification. : 5446/16-17
Date : 14-10-2016
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 15-09-2016
Date of Sample Receipt : 19-09-2016
Date of Test : 19-09-2016 to 14-10-2016
Sample Collected By : Satyendra Kumar Sharma
Point of Collection : Dhulkhera (Handpump Rajeev Gandhi Pathsala Front of Dhulkhera Mine Pit)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.51	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	460	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.04	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	55.1	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	655	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]	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]	68.71	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	19.75	IS 3025 (Part 34) : 1988	45.00	-

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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]	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	-
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]	364	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]	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 Maheshwari
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/693)



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TEST REPORT

Report No. : W/NABL/692A
Job Identification. : 5445A/16-17
Date : 14-10-2016
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 15-09-2016
Date of Sample Receipt : 19-09-2016
Date of Test : 19-09-2016 to 14-10-2016
Sample Collected By : Satyendra Kumar
Point of Collection : Samodi 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	7.62	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	470	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]	367.43	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1076	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	124	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	39.04	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]	280	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	33.7	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]	0.87	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	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]	0.32	IS 13428 (Annexure H)	0.5	1.0
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	-

Notes :-

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Puran Mehta
Puran Mehta
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/692A)



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TEST REPORT

Report No. : W/NABL/691
Job Identification. : 5444/16-17
Date : 14-10-2016
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 15-09-2016
Date of Sample Receipt : 19-09-2016
Date of Test : 19-09-2016 to 14-10-2016
Sample Collected By : Satyendra Kumar Sharma
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	7.30	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	570	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.03	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	247.02	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1090	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]	21.87	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]	182.49	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	28.12	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]	0.48	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]	0.18	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	300	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]	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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Rajesh
Senior Analyst

Rajesh
Authorized Signatory
(Report No: W/NABL/691)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/692
Job Identification. : 5445/16-17
Date : 14-10-2016
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 15-09-2016
Date of Sample Receipt : 19-09-2016
Date of Test : 19-09-2016 to 14-10-2016
Sample Collected By : Satyendra Kumar Sharma
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]	20	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]	12	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.43	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	84	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]	11.4	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	134	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	27.2	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	3.89	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	28.00	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	10.47	IS 3025 (Part 34) : 1988	45.00	-

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Praveen



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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]	0.12	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]	80	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]	31	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	11	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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Puran
Puran Mah Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/692)



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TEST REPORT

Report No. : W/NABL/709
Job Identification. : 545716-17
Date : 17-10-2016
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 16-09-2016
Date of Sample Receipt : 19-09-2016
Date of Test : 19-09-2016 to 17-10-2016
Sample Collected By : Satyendra Kumar Sharma
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	7.16	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	36	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]	153	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	8.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	3.65	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]	41.02	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	5.62	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Raj



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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
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	-
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]	44	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.46	IS 13428 (Annexure H)	0.5	1.00
24	Total coliform [MPN/100ml]	04	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	22	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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Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/709)



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TEST REPORT

Report No. : W/NABL/708
Job Identification. : 5456/16-17
Date : 17-10-2016
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 15-09-2016
Date of Sample Receipt : 19-09-2016
Date of Test : 19-09-2016 to 17-10-2016
Sample Collected By : Satyendra Kumar Sharma
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	7.40	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	48	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.03	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	6.65	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	147	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	16	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	1.94	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]	25.20	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	8.46	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]	0.16	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	-
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]	64	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]	76	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
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Rajesh Maheshwari
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TEST REPORT

Report No. : A/1528
Job Identification. : 5490/16-17
Date : 07-10-2016
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 : 13-09-2016
Date of Sample Receipt : 20-09-2016
Date of Test : 20-09-2016 to 07-10-2016
Sample Collected By : Satyendra Kumar Sharma
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]	390	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	16.33	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	311.29	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM2.5) [microgram/m3]	26.57	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	9.3	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	84.57	IS 5182 (Part 23)	100.00

Notes :-

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


Puran Maj Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: A/1528)



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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TEST REPORT

Report No. : A/1529
Job Identification. : 5491/16-17
Date : 07-10-2016
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 : 11-09-2016
Date of Sample Receipt : 20-09-2016
Date of Test : 20-09-2016 to 07-10-2016
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]	320	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.2	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	283.78	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM2.5) [microgram/m3]	23.67	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.3	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	74.41	IS 5182 (Part 23)	100.00

Notes :-

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Purnan Mai Yogi
Senior Analyst


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



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TEST REPORT

Report No. :	A/1530
Job Identification. :	5492/16-17
Date :	07-10-2016
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 :	12-09-2016
Date of Sample Receipt :	20-09-2016
Date of Test :	20-09-2016 to 07-10-2016
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]	360	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.78	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	236.96	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	29.49	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	6.03	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m ³]	76.8	IS 5182 (Part 23)	100.00

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
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TEST REPORT

Report No. : A/1531
Job Identification. : 5493/16-17
Date : 07-10-2016
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 : 11-09-2016
Date of Sample Receipt : 20-09-2016
Date of Test : 20-09-2016 to 07-10-2016
Sample Collected By : Satyendra Kumar Sharma
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]	230	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.78	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	179.51	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	27.44	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	5.11	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	66.5	IS 5182 (Part 23)	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
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Report No: A/1591
Job Identification : 6155/16-17
Date : 15-10-2016
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 : 27-09-2016
Date of Sample Receipt : 05-10-2016
Date of Test : 05-10-2016 to 15-10-2016
Sample Collected By : Satyendra Kumar Sharma
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]	380	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	19.29	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	341.84	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	28.62	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.79	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	80.6	IS 5182 (Part 23)	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: A/1591)



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TEST REPORT

Report No: A/1592
Job Identification : 6156/16-17
Date : 15-10-2016
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 : 27-09-2016
Date of Sample Receipt : 05-10-2016
Date of Test : 05-10-2016 to 15-10-2016
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/m3]	310	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.1	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	225.05	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	23.46	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	8.7	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	69.7	IS 5182 (Part 23)	100.00

Notes :-

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Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: A/1592)



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TEST REPORT

Report No: A/1593

Job Identification : 6157/16-17

Date : 15-10-2016

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 : 27-09-2016

Date of Sample Receipt : 05-10-2016

Date of Test : 05-10-2016 to 15-10-2016

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]	240	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.9	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	312.22	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	28.85	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.82	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	73.7	IS 5182 (Part 23)	100.00

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: A/1593)



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Job Identification :

A/1594

Date :

6158/16-17

15-10-2016

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 :

28-09-2016

Date of Sample Receipt :

05-10-2016

Date of Test :

05-10-2016 to 15-10-2016

Sample Collected By :

Unit's Representative

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/m3]	210	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.8	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	177.51	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	18.2	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	5.73	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	60.32	IS 5182 (Part 23)	100.00

Notes :-

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Puran Mahayogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: A/1594)



TEAM TEST HOUSE

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T-1736, T-2276

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Office : E-65, Chitrangan Marg, C-Scheme, Bhopal-462001 Phone : 0141-2173533, 2771865 Website : www.teamtesthouse.com	Report No. Date Issued to	TEST REPORT N/727 07/10/2016 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) Mines	Lab.: G1-584, Sitapura Industrial Area Tonk Road, JAIPUR-302022 Raj. Ph.: 94602-22039, 94602-22049 E-mail : teamtesthouse@gmail.com E-mail : teamtest@rediffmail.com	

Type of Unit	Mines
Date of Monitoring	11/09/2016 to 16/09/2016
Date of Sample Receipt	23/09/2016
Date of Test	23/09/2016
Sample Collected by	Satyendra Kumar
Type of Monitoring	Ambient Noise Monitoring

RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [Leq dB (A)] Day Time	Observed value [Leq dB (A)] Night Time
1.	Pur Village	Rural Area	52.2	43.7
2.	Samodi Village (Near Balaji Temple)	Rural Area	50.4	42.4
3.	Suras Village	Rural Area	53.1	41.7
4.	Gandhi Sagar park, Bhilwara	Rural Area	54.2	42.9
5.	Kanoli Village	Rural Area	48.4	37.6
6.	Dhulkhera Village	Rural Area	53.7	42.4
7.	Dariba Village	Rural Area	52.5	40.3

Standard Limits [in dB (A)] Leq

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

Note: -

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

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No.: - N/727)



TEAM TEST HOUSE

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

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TEST REPORT

N/728

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Date	07/10/2016
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 (Rajasthan)
Type of Unit	Mines
Date of Monitoring	16/09/2016 to 18/09/2016
Date of Sample Receipt	23/09/2016
Date of Test	23/09/2016
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)	64.4	58.3
2.	Dhulkhera Pit (10.0 m of Raw material loading Point)	65.2	57.4
3	Suras Pit (10.0 m of Raw material loading Point)	67.5	55.9
4	Tiranga Pit (10.0 m of Raw material loading Point)	64.3	56.7
5	Nr. Tata Blue Scope Shed	67.8	60.2
6	Nr. Crusher (CCR Building)	72.4	63.2
7	Filter Fresh Building	66.5	58.4
8	Nr.BFN CCR Building	71.5	63.5

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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Puranjay
Puran Mal Yogi
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Rajesh
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