



# TEAM TEST HOUSE

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

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

NABL

RSPCB

ISO 9001:2008

OHSAS 18001:2007

JDA/UDH

Office : E-65, Chitraranjan Marg,  
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Ph.: 94602-22039, 94602-22049  
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## TEST REPORT

Report No. : A/863  
Job Identification. : 936 952  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara – 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Noise level Monitoring  
Date of Sample Collection/Monitoring : 06-06-2014 to 08-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 15-07-2014  
Sample Collected By : Kisan Murari

## RESULTS

S. No.	Location	Lday [dB(A)]	Lnight [dB(A)]
1	Pur Village (Ram Lal House)	52.7	43.2
2	Suras Village	50.6	41.2
3	Samodi Village (Near Balaji temple)	52.5	40.2
4	Dhulkhera Village (Prabhu Lal Carpenter)	53.8	43.5
5	Dariba Village ( Hariram House)	49.6	38.6
6	Kanoli Village (Near Kuldeep Singh House on Roof)	48.2	39.8
7	Gandhi Sagar Village	54.7	40.3
8	Raw Material Loading Point (General Working Area)	61.4	41.6
9	Suras Village	49.6	40.3
10	Raw Material Loading Point (General Working Area)	63.5	39.6
11	Crusher working Area near CCR Building (Work place of heavy Machinery)	73.5	62.8
12	Tata Blue Scope Shed	63.5	57.3
13	Loading Point Dhulkhera	60.7	52.4
14	Near Raw Material Store yard mine Area	58.7	50.6
15	BNF CCR Building	57.5	47.5
16	Filter Press Building	56.8	46.7



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Limits as per Environment Protection rules :

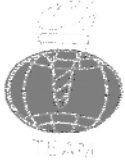
S. No.	Location	Lday [dB(A)]	Lnight [dB(A)]
1	Industrial Area	75	70
2	Commercial Area	65	55
3	Residential Area	55	45
4	Silent Area	50	40

Notes :-

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

(Rajesh Maheshwari)  
Technical Manager

(Kavita Mathur)  
Authorized Signatory  
(Report No:A/863)



# TEAM TEST HOUSE

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T-1736, T-2276

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## TEST REPORT

Report No. : WW/NABL/151  
Job identification. : 922  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Wastewater Sample  
Date of Sample Collection/Monitoring : 06-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 15-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Filter Press

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Suspended Solids [mg/l]	2	APHA.2012:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	3.71	APHA 2012:5210-B	30
3	Chemical Oxygen Demand (COD) [mg/l]	39.68	APHA:2012 : 5220-C	250
4	pH	8.03	APHA:2012 : 4500 H+B	5.5 - 9.0
5	Oil & Grease [mg/l]	3	APHA-2012 :5520-B	10

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*Rajesh*  
(Rajesh Maheshwari)  
Technical Manager

(Kavita Mathur)  
Authorized Signatory  
(Report No: WW/NABL/151 )



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## TEST REPORT

Report No. : WW/NABL/152  
Job Identification. : 923  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Wastewater Sample  
Date of Sample Collection/Monitoring : 06-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Tailing Pond

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Suspended Solids [mg/l]	58	APHA.2012:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	12.25	APHA 2012:5210-B	30
3	Chemical Oxygen Demand (COD) [mg/l]	111.36	APHA:2012 : 5220-C	250
4	pH	8.01	APHA:2012 : 4500 H+B	5.5 - 9.0
5	Oil & Grease [mg/l]	3	APHA-2012 :5520-B	10

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*Rajesh*  
(Rajesh Maneshwari)  
Technical Manager

(Kavita Mathur)  
Authorized Signatory  
(Report No: WW/NABL/152 )



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## TEST REPORT

Report No. :	WW/NABL/154
Job Identification. :	924
Date :	16-07-2014
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
Type of Sample :	Wastewater Sample
Date of Sample Collection/Monitoring :	06-06-2014
Date of Sample Receipt :	09-06-2014
Date of Test :	09-06-2014 to 16-07-2014
Sample Collected By :	puran mal yogi
Point of Collection :	STP Incoming

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules. 1986
1	Suspended Solids [mg/l]	4	APHA.2012:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	5.5	APHA 2012:5210-B	30
3	Chemical Oxygen Demand (COD) [mg/l]	56.32	APHA:2012 : 5220-C	250
4	pH	8.33	APHA:2012 : 4500 H+B	5.5 - 9.0
5	Oil & Grease [mg/l]	3	APHA-2012 :5520-B	10

Notes :

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*Rajesh*  
(Rajesh Maheshwari)  
Technical Manager

(Kavita Mathur)  
Authorized Signatory  
(Report No: WW/NABL/154 )



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## TEST REPORT

Report No. : A/862  
Job Identification. : 921  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara – 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 05-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 15-07-2014  
Sample Collected By : Puran mal yogi  
Point of Collection : Near PMS Building

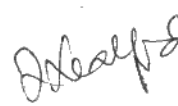
## RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [Micro Gram/m3]	280	IS 5182(Part 10) :1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m3]	12.55	IS 5182(Part 6) :2006	80.00
3	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m3]	51.76	CPCB Guidelines	60.00
4	Sulphur Dioxide [microgram/m3]	5.4	IS 5182(Part 2) :2001	80.00
5	Particulate Matter (PM <sub>10</sub> ) [microgram/m3]	88.25	IS 5182(Part 23)	100.00
6	Suspended Particulate Matter [microgram/m3]	419.85	IS 5182(Part 4) :1999	-

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No:A/862)



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## TEST REPORT

Report No. : A/860  
Job Identification. : 919  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 03-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 15-07-2014  
Sample Collected By : Puran mal yogi  
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 [Micro Gram/m <sup>3</sup> ]	290	IS 5182(Part 10) :1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	15.91	IS 5182(Part 6) :2006	80.00
3	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	48.53	CPCB Guidelines	60.00
4	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.86	IS 5182(Part 2) :2001	80.00
5	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	71.58	IS 5182(Part 23)	100.00
6	Suspended Particulate Matter [microgram/m <sup>3</sup> ]	404.29	IS 5182(Part 4) :1999	-

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(Kavita Mathur)  
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(Report No:A/860)



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## TEST REPORT

Report No. : W/NABL/126  
 Job Identification. : 925  
 Date : 16-07-2014  
 Issued To : M/s Jindal Saw Limited,  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
 9697/6711 Near Tiranga Hills Village: Pur,  
 Tehsil & District Bhilwara - 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable & Domestic Water  
 Date of Sample Collection/Monitoring : 06-06-2014  
 Date of Sample Receipt : 09-06-2014  
 Date of Test : 09-06-2014 to 16-07-2014  
 Sample Collected By : puran mal yogi  
 Point of Collection : Pur Village (Govt. Handpump Suraj Pol Ke Pass Luharo ka Chock)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source 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]	Less Than 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]	356.44	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]	83.61	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	680	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	107.72	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	21.17	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59)	0.1	0.3

Note:

Continue to next page...



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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	29.14	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	28.02	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.03	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	Less than 0.01	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	0.07	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	248	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.81	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 any 100 ml	-
25	Total Chromium [mg/l]	0.05	APHA :2012 :3111- B	0.05	-
26	selenium [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003	0.01	-

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/126 )



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Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 06-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Pur Village (Govt. Handpump Suraj Pol Ke Pass Luharo ka Chock)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Suspended Solids [mg/l]	5	IS 3025 (part 15) : 1984	-	-
2	Total residual Chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986	0.2	1

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Technical Manager

  
Kavita Mathur  
Authorized Signatory  
(Report No: W/126)



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Job Identification. : 926  
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Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 06-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Suras Village (Govt. Handpump Near Palki Rani Ka Mandir)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source 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]	Less Than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.60	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	221.78	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	30.4	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	381	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	63.37	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	15.71	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59)	0.1	0.3

Note:

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# TEAM TEST HOUSE

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



T-1736, T-2276

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JDA/UDH

Office : E-65, Chitranganj Marg,  
C-Scheme, Jaipur-302001  
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Website : www.teamtesthouse.com

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


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	18.85	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	19.32	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	0.79	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	Less than 0.01	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	Less than 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]	160	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.95	IS 13428 (Annexure H)	05	1.0
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002	Shall not be detectable in any 100 ml	-
25	Total Chromium [mg/l]	0.03	APHA :2012 :3111- B	0.05	-
26	selenium [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003	0.01	-

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/127 )



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Ph.: 94602-22039, 94602-22049  
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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No. : W/127  
Job Identification. : 926  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 06-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Suras Village (Govt. Handpump Near Palki Rani Ka Mandir)


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Suspended Solids [mg/l]	2	IS 3025 (part 15) : 1984	-	-
2	Total residual Chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986	0.2	1

### Notes :-

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/127)



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



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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No. : W/NABL/128  
Job Identification : 927  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 06-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Samodi Village (Bheel Basti Near Govt. Handpump front Ratan Lal Yadav Plot)

## RESULTS

S No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source 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]	Less Than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.70	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	392.08	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]	114.01	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	942	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	110.89	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	28.47	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59)	0.1	0.3

Note:

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E-mail : teamtesthouse@gmail.com

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	71.43	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	28.45	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	0.59	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	Less than 0.01	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	0.01	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	0.07	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	208	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.58	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 any 100 ml	-
25	Total Chromium [mg/l]	0.05	APHA :2012 :3111- B	0.05	-
26	selenium [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003	0.01	-

Notes :

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(Rajesh Maheshwari)  
Technical Manager

(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABI /128 )



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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No. : W/128  
Job Identification. : 927  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dnedwas Iron Ore Copper & Associated Minerals Mines Arajai No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 06-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Samodi Village (Bheel Basti Near Govt. Handpump front Ratan Lal  
Yadav Plot)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Suspended Solids [mg/l]	8	IS 3025 (part 15) : 1984	-	-
2	Total residual Chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986	0.2	1

Notes :-

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/128)



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E-mail : [teamtest@rediffmail.com](mailto:teamtest@rediffmail.com)

## TEST REPORT

Report No. :

W/NABL/129

Job Identification. :

928

Date :

16-07-2014

Issued To :

M/s Jindal Saw Limited,

Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
9697/6711 Near Tiranga Hills Village: Pur,

Tehsil & District Bhilwara - 311802 (Rajasthan)

Type of Unit :

Mines

Type of Sample :

Potable & Domestic Water

Date of Sample Collection/Monitoring :

06-06-2014

Date of Sample Receipt :

09-06-2014

Date of Test :

09-06-2014 to 16-07-2014

Sample Collected By :

puran mal yogi

Point of Collection :

Dhulkhera (Handpump Rajeev Gandhi Pathsala Front of Dhulkhera  
Mine Pit)

## RESULTS

S No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source 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]	Less Than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.66	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	574.26	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]	446.53	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1488	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	118.81	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	67.36	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59)	0.1	0.3

Note:

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

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	125	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	43.71	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.20	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	Less than 0.01	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	Less than 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]	336	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.66	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 any 100 ml	-
25	Total Chromium [mg/l]	0.05	APHA :2012 :3111- B	0.05	-
26	selenium [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003	0.01	-

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*Rajesh*  
(Rajesh Maheshwan)  
Technical Manager

*Kavita Mathur*  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/129 )



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## TEST REPORT

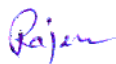
Report No. : W/129  
Job Identification. : 928  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 06-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Dhulkhera (Handpump Rajeev Gandhi Pathsala Front of Dhulkhera  
Mine Pit)


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Suspended Solids [mg/l]	34	IS 3025 (part 15) : 1984	-	-
2	Total residual Chlorine [mg/l]	0.1	IS 3025 (Part 26) : 1986	0.2	1

### Notes :

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/129)



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## TEST REPORT

Report No. : W/NABL/130  
Job Identification : 929  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 06-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Dariba Village (Govt. Tubewell Water-Aruvedic Dispansary)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source 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]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.26	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	269.31	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]	121.61	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	969	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	88.71	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	11.55	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59)	0.1	0.3

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Ph.: 94602-22039, 94602-22049  
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E-mail : teamtest@rediffmail.com


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	384.16	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	Not Detected	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.24	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	Less than 0.01	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	Less than 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]	252	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.88	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 any 100 ml	-
25	Total Chromium [mg/l]	0.09	APHA :2012 :3111- B	0.05	-
26	selenium [mg/l]	Less than 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.

  
(Rajesh Maheshwari)  
Technical Manager

  
✓ (Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/130)



# 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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ISO 9001:2008

OHSAS 18001:2007

JDA/UDH

Office : E-65, Chitranganj Marg,  
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E-mail : teamtest@rediffmail.com

## TEST REPORT


Report No. : W/130  
Job Identification : 929  
Date : 16-07-2014  
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  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 06-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Dariba Village (Govt. Tubewell Water-Aruvedic Dispansary)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Suspended Solids [mg/l]	9	IS 3025 (part 15) : 1984	-	-
2	Total residual Chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986	0.2	1

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/130)



# TEAM TEST HOUSE

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



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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No. : W/NABL/131  
Job Identification : 930  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802. (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 06-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Kanoli Village (Govt.Handpump water of Govt. Middle school)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source 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]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.86	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	352.48	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]	25.18	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	501	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	44.36	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	58.7	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59)	0.1	0.3

Note:

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E-mail : teamtesthouse@gmail.com

### RESULTS

S No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	46.67	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	25.05	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	0.26	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	Less than 0.01	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	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]	276	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.56	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 any 100 ml	-
25	Total Chromium [mg/l]	0.05	APHA :2012 :3111- B	0.05	-
26	selenium [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003	0.01	-

**Notes**

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*Rajesh*  
(Rajesh Maheshwari)  
Technical Manager

*Kavita Mathur*  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/131)



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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No. : W/131  
Job Identification : 930  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 06-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Kanoli Village (Govt. Handpump water of Govt. Middle school)

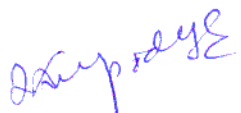
## RESULTS

S No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Suspended Solids [mg/l]	2	IS 3025 (part 15) : 1984	-	-
2	Total residual Chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986	0.2	1

### Notes :-

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/131)



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## TEST REPORT

Report No. : W/NABL/132  
 Job Identification : 931  
 Date : 16-07-2014  
 Issued To : M/s Jindal Saw Limited,  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
 9697/6711 Near Tiranga Hills Village: Pur,  
 Tehsil & District Bhilwara - 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable & Domestic Water  
 Date of Sample Collection/Monitoring : 06-06-2014  
 Date of Sample Receipt : 09-06-2014  
 Date of Test : 09-06-2014 to 16-07-2014  
 Sample Collected By : puran mal yogi  
 Point of Collection : Gandhi sagar village (Tubewell water of Gandhi park)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source 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]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.74	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	407.92	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]	361.02	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1768	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	47.52	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	70.25	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59)	0.1	0.3

Note:

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### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	128.33	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	8.64	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.11	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	Less than 0.01	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	Less than 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]	488	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.77	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 any 100 ml	-
25	Total Chromium [mg/l]	0.05	APHA :2012 :3111- B	0.05	-
26	selenium [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003	0.01	-

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*Rajesh*  
(Rajesh Maheshwari)  
Technical Manager

*Kavita Mathur*  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/132 )



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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No. : W/132  
Job Identification : 931  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 06-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Gandhi sagar village (Tubewell water of Gandhi park)


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Suspended Solids [mg/l]	1	IS 3025 (part 15) : 1984	-	-
2	Total residual Chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986	0.2	1

### Notes :-

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/132)



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E-mail : [teamtest@rediffmail.com](mailto:teamtest@rediffmail.com)

## TEST REPORT

Report No. : W/NABL/137  
Job Identification : 954  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 07-06-2014  
Date of Sample Receipt : 10-06-2014  
Date of Test : 10-06-2014 to 16-07-2014  
Sample Collected By : kishan murari  
Point of Collection : Piezometer Well No. 2 (Plant Gate No.6)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source 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]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.79	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	134.65	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]	332.52	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1224	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	49.11	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	2.89	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59)	0.1	0.3

Note:

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E-mail : [teamtest@rediffmail.com](mailto:teamtest@rediffmail.com)

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	258.33	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	26.91	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.02	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	Less than 0.01	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	Less than 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]	144	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.79	IS 13428 (Annexure H)	0.5	1.0
24	Total Chromium [mg/l]	0.03	APHA :2012 :3111- B	0.05	-
25	selenium [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003	0.01	-
26	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003	0.02	-

**Notes**

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*Rajesh*  
(Rajesh Maheshwari)  
Technical Manager

*Kavita Mathur*  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/137)



# 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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ISO 9001:2008

OHSAS 18001:2007

JDA/UDH

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Tonk Road, JAIPUR-302022 Raj.  
Ph.: 94602-22039, 94602-22049  
E-mail : teamtesthouse@gmail.com  
E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No. : W/137  
 Job Identification. : 954  
 Date : 16-07-2014  
 Issued To : M/s Jindal Saw Limited,  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
 9697/6711 Near Tiranga Hills Village: Pur,  
 Tehsil & District Bhilwara - 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable & Domestic Water  
 Date of Sample Collection/Monitoring : 07-06-2014  
 Date of Sample Receipt : 10-06-2014  
 Date of Test : 10-06-2014 to 16-07-2014  
 Sample Collected By : kishan murari  
 Point of Collection : Piezometer Well No. 2 (Plant Gate No.6)


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Suspended Solids [mg/l]	78	IS 3025 (part 15) : 1984	-	-
2	Total residual Chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986	0.2	1

Notes :-

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/137)



# TEAM TEST HOUSE

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



T-1736, T-2276

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E-mail : [teamtesthouse@gmail.com](mailto:teamtesthouse@gmail.com)  
E-mail : [teamtest@rediffmail.com](mailto:teamtest@rediffmail.com)

## TEST REPORT

Report No. :	W/NABL/136	
Job Identification. :	953	
Date :	16-07-2014	
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	
Type of Sample :	Potable & Domestic Water	
Date of Sample Collection/Monitoring :	07-06-2014	
Date of Sample Receipt :	10-06-2014	
Date of Test :	10-06-2014 to 16-07-2014	
Sample Collected By :	kishan murari	
Point of Collection :	Piezometer Well No. 1	

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.79	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	435.64	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	446.53	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1626	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	98.22	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	46.19	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59)	0.1	0.3

Note:

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E-mail : teamtest@rediffmail.com


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	320.83	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	7.18	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.12	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	Less than 0.01	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	Less than 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]	248	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.86	IS 13428 (Annexure H)	0.5	1.0
24	Total Chromium [mg/l]	Less than 0.01	APHA :2012 :3111- B	0.05	-
25	selenium [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003	0.01	-
26	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003	0.02	-

Notes -

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(Rajesh Maheshwari)  
Technical Manager

  
✓ (Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/136)



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E-mail : teamtest@rediffmail.com

## TEST REPORT

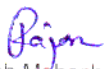
Report No. : W/136  
Job Identification. : 953  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 07-06-2014  
Date of Sample Receipt : 10-06-2014  
Date of Test : 10-06-2014 to 16-07-2014  
Sample Collected By : kishan murari  
Point of Collection : Piezometer Well No. 1


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Suspended Solids [mg/l]	1	IS 3025 (part 15) : 1984	-	-
2	Total residual Chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986	0.2	1

### Notes

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/136)



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## TEST REPORT

Report No.: W/NABL/138  
Job Identification: 955  
Date: 16-07-2014  
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  
Type of Sample: Potable & Domestic Water  
Date of Sample Collection/Monitoring: 07-06-2014  
Date of Sample Receipt: 10-06-2014  
Date of Test: 10-06-2014 to 16-07-2014  
Sample Collected By: kishan murari  
Point of Collection: Piezometer Well No.3 (Suras Mine)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source 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]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.60	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	400	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]	332.52	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1387	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	45.94	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	72.17	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992	-	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59)	-	-

Note:

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*[Handwritten Signature]*



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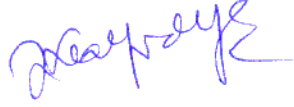
### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	22.33	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	18.44	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.04	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	Less than 0.01	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	Less than 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]	176	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.58	IS 13428 (Annexure H)	0.5	1.0
24	Total Chromium [mg/l]	0.05	APHA :2012 :3111- B	0.05	-
25	selenium [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003	0.01	-
26	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003	0.02	-

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/138 )



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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No. : W/138  
Job Identification. : 955  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 07-06-2014  
Date of Sample Receipt : 10-06-2014  
Date of Test : 10-06-2014 to 16-07-2014  
Sample Collected By : kishan murari  
Point of Collection : Piezometer Well No.3 (Suras Mine)


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Suspended Solids [mg/l]	50	IS 3025 (part 15) : 1984	-	-
2	Total residual Chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986	0.2	1

### Notes

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(Rajesh Maheshwari)  
Technical Manager

  
γ (Kavita Mathur)  
Authorized Signatory  
(Report No: W/138)



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## TEST REPORT

Report No. : W/NABL/139  
Job Identification. : 956  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 07-06-2014  
Date of Sample Receipt : 10-06-2014  
Date of Test : 10-06-2014 to 16-07-2014  
Sample Collected By : kishan murari  
Point of Collection : Piczometer Well No.4 (Suras Mine)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source 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]	Less than 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]	554.46	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]	304.02	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1526	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	142.57	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	48.11	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59)	0.1	0.3

Note:

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E-mail : teamtesthouse@gmail.com  
E-mail : teamtest@rediffmail.com

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	351.67	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	Not Detected	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.10	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	Less than 0.01	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	Less than 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]	308	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.26	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 any 100 ml	-
25	Total Chromium [mg/l]	0.03	APHA :2012 :3111- B	0.05	-
26	selenium [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003	0.01	-
27	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003	0.02	-

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*Rajesh*  
(Rajesh Maheshwari)  
Technical Manager

*Kavita Mathur*  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/139)



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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No. : W/139  
Job Identification: 956  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 07-06-2014  
Date of Sample Receipt : 10-06-2014  
Date of Test : 10-06-2014 to 16-07-2014  
Sample Collected By : kishan murari  
Point of Collection : Piezometer Well No.4 (Suras Mine)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Suspended Solids [mg/l]	82	IS 3025 (part 15) : 1984	-	-
2	Total residual Chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986	0.2	1

Notes -

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

*Rajesh*  
(Rajesh Maheshwari)  
Technical Manager

*Kavita Mathur*  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/139)



# TEAM TEST HOUSE

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



T-1736, T-2276

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E-mail : teamtesthouse@gmail.com  
E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No. :	W/NABL/140
Job Identification. :	957
Date :	16-07-2014
Issued To :	M/s Jindal Saw Limited, Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711 Near Tiranga Hills Village: Pur, Tehsil & District Bhilwara - 311802 (Rajasthan)
Type of Unit :	Mines
Type of Sample :	Potable & Domestic Water
Date of Sample Collection/Monitoring :	07-06-2014
Date of Sample Receipt :	10-06-2014
Date of Test :	10-06-2014 to 16-07-2014
Sample Collected By :	kishan murari
Point of Collection :	Piezometer Well No.5

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source 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]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.83	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	554.46	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	351.52	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1937	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	79.21	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	86.61	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59)	0.1	0.3

Note:

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E-mail : teamtesthouse@gmail.com

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	391.66	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	21.15	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	3.83	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	Less than 0.01	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	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]	344	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.84	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 any 100 ml	-
25	Total Chromium [mg/l]	0.05	APHA :2012 :3111- B	0.05	-
26	selenium [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003	0.01	-
27	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003	0.02	-

Notes :-

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*Rajesh*  
(Rajesh Maheshwari)  
Technical Manager

*Kavita Mathur*  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/140)



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E-mail : teamtesthouse@gmail.com  
E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No. : w/140  
Job Identification. : 957  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 07-06-2014  
Date of Sample Receipt : 10-06-2014  
Date of Test : 10-06-2014 to 16-07-2014  
Sample Collected By : kishan murari  
Point of Collection : Piezometer Well No.5


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Suspended Solids [mg/l]	56	IS 3025 (part 15) : 1984	-	-
2	Total residual Chlorine [mg/l]	0.1	IS 3025 (Part 26) : 1986	0.2	1

### Notes

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: w/140)



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### TEST REPORT

Report No. : W/NABL/141  
Job Identification : 958  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 07-06-2014  
Date of Sample Receipt : 10-06-2014  
Date of Test : 10-06-2014 to 16-07-2014  
Sample Collected By : kishan murari  
Point of Collection : Piezometer Well No.6 (Dhulkhera Mine)

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source 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]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.74	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	600	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]	194.76	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1365	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	156	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]	Less than 0.01	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59)	0.1	0.3

Note:

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### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	341.66	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	38.53	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.11	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	Less than 0.01	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	0.09	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	340	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.59	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 any 100 ml	-
25	Total Chromium [mg/l]	0.02	APHA :2012 :3111- B	0.05	-
26	selenium [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003	0.01	-
27	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003	0.02	-

Notes :-

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*Rajesh*  
(Rajesh Maheshwari)  
Technical Manager

*Kavita Mathur*  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/141)



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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No. : w/141  
Job Identification. : 958  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 07-06-2014  
Date of Sample Receipt : 10-06-2014  
Date of Test : 10-06-2014 to 16-07-2014  
Sample Collected By : kishan murari  
Point of Collection : Piezometer Well No.6 (Dhulkhera Mine)


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Desirable Limits as Per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Suspended Solids [mg/l]	4	IS 3025 (part 15) : 1984	-	-
2	Total residual Chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986	0.2	1

### Notes -

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: w/141)



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## TEST REPORT

Report No. : A/879  
Job Identification : 1344  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 28-06-2014  
Date of Sample Receipt : 30-06-2014  
Date of Test : 30-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
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 [Micro Gram/m <sup>3</sup> ]	230	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	16.69	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	492.6	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	47.45	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.08	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	93.4	IS 5182 (Part 23)	100.00

### Notes

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: A/879)



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## TEST REPORT

Report No. : A/880  
Job Identification. : 1345  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No.  
9697/6711Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 28-06-2014  
Date of Sample Receipt : 30-06-2014  
Date of Test : 30-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Suras Village (Ratan Lal house-on roof)


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [Micro Gram/m3]	210	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.84	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	411.2	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM2.5) [microgram/m3]	51.07	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.85	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	88.62	IS 5182 (Part 23)	100.00

### Notes :-

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: A/880)



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## TEST REPORT

Report No. : A/881  
Job Identification : 1346  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 28-06-2014  
Date of Sample Receipt : 30-06-2014  
Date of Test : 30-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Dhulkhera Village (Prabhu Lal Carpenter)


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [Micro Gram/m3]	270	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m3]	14.99	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	344.69	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m3]	53.77	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.85	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m3]	89.8	IS 5182 (Part 23)	100.00

### Notes :

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(Rajesh Maheshwari)  
Technical Manager

  
Kavita Mathur  
Authorized Signatory  
(Report No: A/881)



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## TEST REPORT


Report No. : A/882  
Job Identification : 1347  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 28-06-2014  
Date of Sample Receipt : 30-06-2014  
Date of Test : 30-06-2014 to 16-07-2014  
Sample Collected By : puran mal yogi  
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 [Micro Gram/m <sup>3</sup> ]	240	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	17.58	IS 5182 (Part 6) : 2006	80.00
3	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	35.64	CPCB Guidelines	60.00
4	Sulphur Dioxide [microgram/m <sup>3</sup> ]	9.23	IS 5182 (Part 2) : 2001	80.00
5	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	86.7	IS 5182 (Part 23)	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	481.69	IS 5182 (Part 4) : 1999	500

### Notes :-

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

  
(Rajesh Maheshwari)  
Technical Manager

  
√(Kavita Mathur)  
Authorized Signatory  
(Report No: A/882)



# TEAM TEST HOUSE

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

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## TEST REPORT

Report No. : A/852  
Job Identification. : 912  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 03-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 15-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Suras Village (Ratan Lal house-on roof)


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [Micro Gram/m <sup>3</sup> ]	200	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	17.52	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	332.69	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	47.98	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	10.54	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	87.35	IS 5182 (Part 23)	100.00

### Notes :

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(Rajesh Maheshwari)  
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(Kavita Mathur)  
Authorized Signatory  
(Report No. A/852)



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## TEST REPORT

Report No. : A/853  
Job Identification. 913  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 03-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 15-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Dhulkhera Village (Prabhu Lal Carpenter)


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [Micro Gram/m3]	210	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	16.92	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	397.6	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM2.5) [microgram/m3]	33.91	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	9.25	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	88.29	IS 5182 (Part 23)	100.00

### Notes :

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(Rajesh Maheshwari)  
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### TEST REPORT

Report No. : A/853  
Job Identification : 914  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 03-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 15-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Samodi village

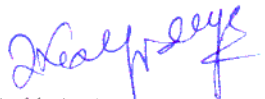
### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [Micro Gram/m3]	230	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	21.45	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	354.76	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM2.5) [microgram/m3]	34.8	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	10.82	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	78.51	IS 5182 (Part 23)	100.00

Notes :-

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(Rajesh Maheshwari)  
Technical Manager

  
✓ (Kavita Mathur)  
Authorized Signatory  
(Report No: A/853)



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## TEST REPORT

Report No. : A/854  
Job Identification : 915  
Date : 16-07-2014  
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  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 04-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 15-07-2014  
Sample Collected By : Kishan Kumar Sharma  
Point of Collection : Pur Village (Ram Lal House)


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [Micro Gram/m3]	200	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	21.17	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	359.86	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM2.5) [microgram/m3]	45.27	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	8.68	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	77.58	IS 5182 (Part 23)	100.00

### Notes :

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(Kavita Mathur)  
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(Report No: A/854)



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## TEST REPORT

Report No. : A/855  
Job Identification : 916  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 04-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 15-07-2014  
Sample Collected By : puran mal yogi  
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 [Micro Gram/m3]	160	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	16.99	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	392.5	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM2.5) [microgram/m3]	39.04	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	8.19	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	83.02	IS 5182 (Part 23)	100.00

### Notes :

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(Rajesh Maheshwari)  
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(Kavita Mathur)  
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(Report No: A/855)



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## TEST REPORT

Report No. : A/856  
Job Identification. : 917  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 05-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 15-07-2014  
Sample Collected By : puran mal yogi  
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 [Micro Gram/m <sup>3</sup> ]	240	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	20.54	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	364.43	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	41.37	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	8.27	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	73.18	IS 5182 (Part 23)	100.00

### Notes :

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(Rajesh Maheshwari)  
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(Kavita Mathur)  
Authorized Signatory  
(Report No: A/856)



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## TEST REPORT

Report No. : A/859  
Job Identification : 918  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 05-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 15-07-2014  
Sample Collected By : puran mal yogi  
Point of Collection : Kanoli Village (Kuldeep singh house -On Roof)


## RESULTS

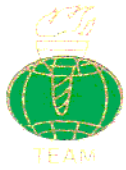
S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [Micro Gram/m3]	290	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.38	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	343.5	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM2.5) [microgram/m3]	43.23	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	9.1	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	72.31	IS 5182 (Part 23)	100.00

### Notes :

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: A/859)



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## TEST REPORT

Report No. : A/861  
Job Identification. : 920  
Date : 16-07-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 05-06-2014  
Date of Sample Receipt : 09-06-2014  
Date of Test : 09-06-2014 to 15-07-2014  
Sample Collected By : puran mal yogi  
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 [Micro Gram/m <sup>3</sup> ]	320	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	17.02	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	350.98	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	52.6	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.09	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	80.43	IS 5182 (Part 23)	100.00

### Notes -

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(Rajesh Maheshwari)  
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Authorized Signatory  
(Report No: A/861)