



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

## TEST REPORT

Report No. : A/28  
Job Identification. : 10586/17-18  
Date : 04-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 14-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 03-04-2018  
Sample Collected By : Parsa Ram Kudr  
Point of Collection : Dariba Village

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	250	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.32	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	228.52	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	29.58	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.17	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	61.8	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	6.2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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*Parsa Ram Kudr*  
Parsa Ram Kudr

*Rajesh Maheshwari*  
Rajesh Maheshwari



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## TEST REPORT

Report No. : A/29  
Job Identification : 10587/17-18  
Date : 04-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 14-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 03-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Pur Village

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	9.4	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	320	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.45	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.73	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<2.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	302.15	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	34.04	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.76	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	76.55	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	10	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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*Parsa Ram Kudi*  
Parsa Ram Kudi

*Rajesh Mishra*  
Rajesh Mishra



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## TEST REPORT

Report No. : A/30  
Job Identification. : 10588/17-18  
Date : 04-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 15-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 03-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Kanoli Village

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	160	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.08	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.25	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<2.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	202.24	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	29.82	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.64	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	69.2	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<0.1)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL (<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL (<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	2.2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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*[Signature]*

Raja  
Rajesh Maheshwari



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## TEST REPORT

Report No. : A/31  
Job Identification : 10589/17-18  
Date : 04-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 13-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 02-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Near Single Mill- BFN

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	12.5	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	360	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m <sup>3</sup> ]	0.25	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	15.4	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	306.94	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	29.68	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	8.21	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	85.35	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m <sup>3</sup> ]	6.78	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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*Purjyoti Singh*  
Senior Analyst

*Rajesh*  
Rajesh Mishashwan  
Authorized Signatory



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## TEST REPORT

Report No: A/32  
Job Identification: 10590/17-18  
Date: 04-04-2018  
Issued To: M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara District-Bhilwara 311802 (Rajasthan)  
Type of Unit: Mines  
Type of Sample: Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring: 13-03-2018  
Date of Sample Receipt: 23-03-2018  
Date of Test: 23-03-2018 to 02-04-2018  
Sample Collected By: Parsa Ram Kudi  
Point of Collection: Ghandhisagar Village

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	7.6	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	340	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.19	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.61	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	244.79	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	36.42	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	7.02	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	83.02	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	5.44	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Senior Analyst

  
Authorized Signatory



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : A/33  
Job Identification. : 10591/17-18  
Date : 04-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 16-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 03-04-2018  
Sample Collected By : Parsha Ram Kudi  
Point of Collection : Near Mines Workshop

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	13.2	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	380	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.38	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.86	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	12.5	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	232.58	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	32.94	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	7.04	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	83.56	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	5.7	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Parsha Ram Kudi

  
Parsha Ram Kudi



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## TEST REPORT

Report No. : W/NABL/68  
 Job Identification. : 10603/17-18  
 Date : 05-04-2018  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 18-03-2018  
 Date of Sample Receipt : 23-03-2018  
 Date of Test : 23-03-2018 to 04-04-2018  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Dariba 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	7.53	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	590	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]	226.6	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	926	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]	51.03	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	145.71	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	15.26	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]	0.41	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	252	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.41	IS 13428 (Annexure H)	0.5	1.0
24	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	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
30	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
32	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
33	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	-

Notes :-

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

Senior Analyst

Authorized Signatory  
(Report No: W/NABL/68 )



# TEAM TEST HOUSE

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

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

**NAB** Report No.: **RSPCB** ISO 9001:2008 W/68 OHSAS 18001:2007 JDA/UDH  
Office: Job Identification Marg, 10603/17-18 Lab.: G1-584, Sitapura Industrial Area  
C-Scheme, Jaipur-302001 05-04-2018 Tonk Road, JAIPUR-302022 Raj.  
Phone: 0141-2369980, 2771865 Ph.: 94602-22039, 94602-22049  
Website: www.teamtesthouse.com M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Mines@gmail.com  
Dhedwas Iron Ore Coppe E & Associated Minerals Mines Araj  
9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara,  
District : Bhilwara- 311802 (Rajasthan)

Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 18-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 04-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Dariba Village


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(0.0001)	APHA 2012 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2012	-	-
3	Calcium Hardness[mg/l]	380	IS 3025 (part 40):1991	-	-
4	E- Coli [MPN/100ml]	Not Detected	IS5887 (Part-1)	Shall not be detectable in any 100 ml sample	-

### Notes :-

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Puran Mal Yogi  
Senior Analyst

  
Authorized Signatory  
(Report No: W/68)



# TEAM TEST HOUSE

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JDA/UDH

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

## TEST REPORT

Report No. : W/NABL/66  
Job Identification. : 10601/17-18  
Date : 05-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 17-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 04-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Samodi Village (Bheel Basti Near Govt. Handpump front Ratan Lal Yadav Plot)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.29	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	480	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	125.35	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]	172	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	12.15	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]	123	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	22.24	IS 3025 (Part 34) : 1988	45.00	-

Note:

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

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.43	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]	340	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	-
23	Boron [mg/l]	0.45	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detecte	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
33	Calcium Hardness [mg/l]	430	IS 3025 (Part 40) : 1991	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00

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*[Signature]*

Senior Analyst

*[Signature]*

Authorized Signatory  
(Report No: W/NABL/66)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/66  
Job Identification. : 10601/17-18  
Date : 05-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 17-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 04-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Samodi Village (Bheel Basti Near Govt. Handpump front Ratan Lal  
Yadav Plot)

## RESULTS

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

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Senior Analyst

Authorized Signatory  
(Report No: W/66)



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E-mail : director@teamtesthouse.com

### TEST REPORT

Report No. : W/NABL/64  
Job Identification. : 10599/17-18  
Date : 05-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 19-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 04-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Suras Village (Govt. Handpump Near Palki Rani Ka Mandir)

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(< 0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	6.99	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	560	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	192.85	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	927	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	198.4	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]	61.43	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	36.18	IS 3025 (Part 34) : 1988	45.00	-

Note:

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

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.14	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]	316	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	-
23	Boron [mg/l]	0.42	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
28	Free Residual Chlorine [mg/l]	BDL(< 0.1)	IS 3025 (Part 26) : 1986	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
33	Calcium Hardness [mg/l]	496	IS 3025 (Part 40) : 1991	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	-

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Senior Analyst

Authorized Signatory  
(Report No: W/NABL/64 )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/64  
Job Identification. : 10599/17-18  
Date : 05-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 19-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 04-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Suras Village (Govt. Handpump Near Palki Rani Ka Mandir)

## RESULTS

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

### Notes :-

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Senior Analyst

Authorized Signatory  
(Report No: W/64)



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## TEST REPORT

Report No. : W/NABL/63  
Job Identification. : 10598/17-18  
Date : 05-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 19-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 04-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Dhulkhera Village (Near NH 75)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(< 0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.07	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	570	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	144.64	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	974	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]	20.41	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]	92.14	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	31.95	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]	0.80	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]	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]	0.43	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1.0	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	360	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

Notes :-

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Senior Analyst

Authorized Signatory  
(Report No: W/NABL/63 )



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

## TEST REPORT

Report No. : W/63  
Job Identification. : 10598/17-18  
Date : 05-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 19-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 04-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Dhulkhera Village (Near NH 75)


## RESULTS

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

### Notes :-

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Senior Analyst

  
Authorized Signatory  
(Report No: W/63)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/65  
Job Identification. : 10600/17-18  
Date : 05-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 18-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 04-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Pur Village (Near Balaji Mandir)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.43	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	570	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	327.84	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1306	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]	63.18	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]	218.57	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	32.24	IS 3025 (Part 34) : 1988	45.00	-

Note:

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

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.55	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]	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]	0.42	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
30	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
32	Calcium Hardness [mg/l]	310	IS 3025 (Part 40) : 1991	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	-

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Senior Analyst

Authorized Signatory  
(Report No: W/NABL/65)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/65  
Job Identification. : 10600/17-18  
Date : 05-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 18-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 04-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Pur Village (Near Balaji Mandir)

## RESULTS

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

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Senior Analyst

  
Authorized Signatory  
(Report No: W/65)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/67  
Job Identification : 10602/17-18  
Date : 05-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 17-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 04-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Gandhi sagar park- Bhilwara

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.40	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]	308.56	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1523	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	84	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	63.18	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]	134.29	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	36.22	IS 3025 (Part 34) : 1988	45.00	-

Note:

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*Parsa Ram Kudi*



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

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.24	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
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]	572	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	-
23	Boron [mg/l]	0.44	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Phenolic Compound [mg/l]	BDL(<0.01)	IS 3025 (Part 43) : 1992	0.001	-

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*[Signature]*

Senior Analyst

*[Signature]*

Authorized Signatory  
(Report No: W/NABL/67)



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**NABL** Report No.: **RSPCB**      **ISO 9001:2008** W/67      **OHSAS 18001:2007**      **JDA/UDH**

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 C-Scheme, Jaipur-302001      05-04-2018      Tonk Road, JAIPUR-302022 Raj.  
 Phone: 0141-2369980, 2771865      M/S Jindal Saw Limited (Dhedwas Mines)      Ph.: 94602-22039, 94602-22049  
 Website: www.teamtesthouse.com      Dhedwas Iron Ore Copper & Associated Minerals Mines Araji  
 9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara,  
 District : Bhilwara- 311802 (Rajasthan)

Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 17-03-2018  
 Date of Sample Receipt : 23-03-2018  
 Date of Test : 23-03-2018 to 04-04-2018  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Gandhisagar-Park TW

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(0.0001)	APHA 2012 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2012	-	-
3	Calcium Hardness[mg/l]	210	IS 3025 (part 40):1991	-	-

**Notes :-**

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*Puran*  
 Puran Mai Yogi  
 Senior Analyst

*Pur*  
 Puran Maheshwar  
 Authorized Signatory  
 (Report No: W/67)



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## TEST REPORT

Report No. : W/NABL/69  
 Job Identification. : 10604/17-18  
 Date : 05-04-2018  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 16-03-2018  
 Date of Sample Receipt : 23-03-2018  
 Date of Test : 23-03-2018 to 04-04-2018  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Kanoli Village

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.58	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	216	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	21.21	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	358	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]	4.86	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]	6.57	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	3.22	IS 3025 (Part 34) : 1988	45.00	-

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*Signature*



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

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	BDL(<0.1)	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	164	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.43	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
30	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
32	Calcium Hardness [mg/l]	196	IS 3025 (Part 40) : 1991	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	-

Notes :-

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Senior Analyst

Authorized Signatory  
(Report No: W/NABL/69)



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

## TEST REPORT

Report No. : W/69  
Job Identification. : 10604/17-18  
Date : 05-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 16-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 04-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Kanili Village

## RESULTS

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

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Senior Analyst

Authorized Signatory  
(Report No: W/69)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/79  
Job Identification. : 10605/17-18  
Date : 08-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 20-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 08-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Piezometer Welll No.1

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.45	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]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	182.45	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1141	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]	65.61	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	204	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	35.24	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Tonk Road, JAIPUR-302022 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]	1.12	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	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]	220	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	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	13	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	310	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

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*Rajesh*  
Senior Analyst

*Rajesh*  
Rajesh Maneshwan  
Authorized Signatory  
(Report No: W/NABL/79)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No.: W/79  
Job Identification.: 10605/17-18  
Date: 03-04-2018  
Issued To: M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 20-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 03-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Piezometer Well No.1

## RESULTS

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

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Puran Mal Yogi  
Senior Analyst

  
Rajesh Jaiswani  
Authorized Signatory  
(Report No: W/79)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. :	W/NABL/80
Job Identification. :	10606/17-18
Date :	10-04-2018
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara District : Bhilwara- 311802 (Rajasthan)
Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water
Date of Sample Collection/Monitoring :	20-03-2018
Date of Sample Receipt :	23-03-2018
Date of Test :	23-03-2018 to 08-04-2018
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Piezometer Welll No.2

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	6.96	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	560	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	145.3	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1256	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	148	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	46.17	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	224.29	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	41.6	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]	1.33	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]	378	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.42	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	19	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	364	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

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*Puran*  
**Puran Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maneshwar**  
Authorized Signatory  
(Report No: W/NABL/80)



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## TEST REPORT

Report No. : W/80  
Job Identification : 10606/17-18  
Date : 10-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 20-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 08-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Piezometer Well No.2

## RESULTS

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

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Puran Mal Yogi  
Senior Analyst

  
Raresh Mahashwan  
Authorized Signatory  
(Report No: W/80)



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## TEST REPORT

Report No. : W/NABL/81  
Job Identification : 10607/17-18  
Date : 08-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 20-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 08-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Piezometer Well No.3

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.56	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	390	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.01	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	53.4	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	687	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	104	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	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]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	67	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	36.4	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]	0.81	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	180	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.34	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	15	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	260	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

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*Puranj*  
Puranj Mai Yogi  
Senior Analyst

*Rajesh*  
Rajesh Kashwan  
Authorized Signatory  
(Report No: W/NABL/81)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/81  
Job Identification. : 10607/17-18  
Date : 08-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 20-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 08-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Piezometer Welll No.3

## RESULTS

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

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Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/81)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. :	W/NABL/82
Job Identification. :	10608/17-18
Date :	10-04-2018
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara District : Bhilwara- 311802 (Rajasthan)
Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water
Date of Sample Collection/Monitoring :	20-03-2018
Date of Sample Receipt :	23-03-2018
Date of Test :	23-03-2018 to 08-04-2018
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Piezometer Well No.4

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.26	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]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	280	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1326	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	116	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	26.73	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	135	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	16	IS 3025 (Part 34) : 1988	45.00	-

Note:

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*Raj*



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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]	0.45	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	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]	288	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.42	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	15	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	290	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

Notes :-

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*Puran Maj Yogi*  
Puran Maj Yogi  
Senior Analyst

*Rajesh Maheshwari*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/82)



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## TEST REPORT

Report No.: W/82  
Job Identification.: 10608/17-18  
Date : 10-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajil No.  
9967/6711, Near Tiranga Hills, Village : Pur Tehsil : Bhilwara  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 20-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 08-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Piezometer Welll No.4

## RESULTS

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

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Purnima Singh  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/82)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. :	W/NABL/83
Job Identification. :	10609/17-18
Date :	10-04-2018
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara District : Bhilwara- 311802 (Rajasthan)
Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water
Date of Sample Collection/Monitoring :	20-04-2018
Date of Sample Receipt :	23-04-2018
Date of Test :	23-04-2018 to 08-04-2018
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Piezometer Welll No.5

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.01	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	184	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]	270	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1440	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	60.8	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]	135	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	36	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]	0.85	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	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]	188	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.42	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	10	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	152	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

Notes :-

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*Purva*  
Purva Mal Yogi

Senior Analyst

*Rajesh*  
Rajesh Maneshwan

Authorized Signatory  
(Report No: W/NABL83)



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## TEST REPORT

Report No. :  
Job Identification. :  
Date :  
Issued To :  
Type of Unit :  
Type of Sample :  
Date of Sample Collection/Monitoring :  
Date of Sample Receipt :  
Date of Test :  
Sample Collected By :  
Point of Collection :

W/83  
10609/17-18  
10-04-2018  
M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara  
District : Bhilwara- 311802 (Rajasthan)  
Mines  
Potable and Domestic Water  
20-04-2018  
23-04-2018  
23-04-2018 to 08-04-2018  
Parsa Ram Kudi  
Piezometer Welll No.5

## RESULTS

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

### Notes :-

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Purnima Yogi  
Senior Analyst

Rajesh Maheshwan  
Authorized Signatory  
(Report No: W/83)



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## TEST REPORT

Report No. :	W/NABL/84
Job Identification. :	10610/17-18
Date :	10-04-2018
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No. 9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara District : Bhilwara- 311802 (Rajasthan)
Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water
Date of Sample Collection/Monitoring :	20-03-2018
Date of Sample Receipt :	23-03-2018
Date of Test :	23-03-2018 to 09-04-2018
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Piezometer Well No.6

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.02	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]	0.03	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	548	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1450	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	120	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	68.04	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]	380	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	40	IS 3025 (Part 34) : 1988	45.00	-

Note:

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*Paj*



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Website : [www.teamtesthouse.com](http://www.teamtesthouse.com)

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

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	1.25	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]	452	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.46	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	13	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	300	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

Notes :-

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Puran Mal Modi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/84)



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

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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/84  
Job Identification. : 10610/17-18  
Date : 10-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 20-04-2018  
Date of Sample Receipt : 23-04-2018  
Date of Test : 23-04-2018 to 09-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Piezometer Welll No.6


## RESULTS

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

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Puran Mahodi  
Senior Analyst

  
Rajesh Maneswan  
Authorized Signatory  
(Report No: W/84)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. :	W/NABL/85
Job Identification. :	10611/17-18
Date :	10-04-2018
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9967/6711, Near Tirnga Hills, Village :Pur Tehsil : Bhilwara District : Bhilwara- 311802 (Rajasthan)
Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water
Date of Sample Collection/Monitoring :	20-03-2018
Date of Sample Receipt :	23-03-2018
Date of Test :	23-03-2018 to 09-04-2018
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Piezometer Welll No.7

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.45	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	550	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	159.57	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1480	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]	46.17	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	240	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	33.6	IS 3025 (Part 34) : 1988	45.00	-

Note:

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JDA/UDH

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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]	0.96	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]	440	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.44	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	13	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	360	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

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Purnan Malhotra  
Senior Analyst

Rajesh Maheshwan  
Authorized Signatory  
(Report No: W/NABL/85)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/85  
Job Identification. : 10611/17-18  
Date : 10-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 20-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 09-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Piezometer Well No.7

## RESULTS

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

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Puran Mal Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/85)



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## TEST REPORT

Report No. :	W/NABL/86
Job Identification. :	10612/17-18
Date :	10-04-2018
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara District : Bhilwara- 311802 (Rajasthan)
Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water
Date of Sample Collection/Monitoring :	20-03-2018
Date of Sample Receipt :	23-03-2018
Date of Test :	23-03-2018 to 09-04-2018
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Piezometer Welll No.8

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.56	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	124	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]	42.43	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	456	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	24	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]	43	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	12.4	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]	0.52	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	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]	176	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	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	14	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	60	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

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*Puran Mal Yogi*  
Puran Mal Yogi  
Senior Analyst

*Rajesh Maheshwari*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/86)



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## TEST REPORT

Report No. : W/86  
Job Identification. : 10612/17-18  
Date : 10-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
9967/6711, Near Tirnga Hills, Village : Pur Tehsil : Bhilwara  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 20-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 09-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Piezometer Well No.8

## RESULTS

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

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Puran Mal Yogi  
Senior Analyst

  
Rakesh Malhotra  
Authorized Signatory  
(Report No: W/86)



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## TEST REPORT

Report No. : W/NABL/102  
Job Identification. : 10617/17-18  
Date : 10-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Surface Water  
Date of Sample Collection/Monitoring : 19-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 10-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Kothari River

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.85	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	180	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	0.01	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	88.71	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	418	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	36.8	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	21.38	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	20.00	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	2.65	IS 3025 (Part 34) : 1988

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Website : [www.teamtesthouse.com](http://www.teamtesthouse.com)

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

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.12	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	152	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.30	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Suspended Solids [mg/l]	13	IS 3025 (part 15) : 1984
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)

Notes :-

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Puran Mal Yogi  
Senior Analyst

Rakesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/102 )



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E-mail : director@teamtesthouse.com

**TEST REPORT**

Report No. : W/102  
Job Identification : 10617/17-18  
Date : 10-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Surface Water  
Date of Sample Collection/Monitoring : 19-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 10-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Kothari River

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
2	Pesticides [mg/l]	Not Detected	APHA : 2012
3	Calcium Hardness[mg/l]	92	IS 3025 (part 40):1991
4	Suspended Solids [mg/l]	13	IS 3025 (part 15):1984

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Puran Mal Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/102)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/103  
Job Identification. : 10618/17-18  
Date : 10-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Surface Water  
Date of Sample Collection/Monitoring : 19-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 10-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Meja Dam

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.80	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	160	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	61.71	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	330	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	40	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	14.58	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	19.00	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	2.87	IS 3025 (Part 34) : 1988

Note:

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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.11	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	160	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.43	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
30	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
32	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
33	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992

Notes :-

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*Purush*  
**Purush Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: W/NABL/103)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/103  
Job Identification : 10618/17-18  
Date : 10-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Surface Water  
Date of Sample Collection/Monitoring : 19-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 10-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Meja Dam

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
2	Pesticides [mg/l]	Not Detected	APHA : 2012
3	Calcium Hardness[mg/l]	100	IS 3025 (part 40):1991
4	Suspended Solid [mg/l]	16	IS 3025 (part 15):1984

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Senior Analyst

  
Authorized Signatory  
(Report No: W/103)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/104  
Job Identification : 10619/17-18  
Date : 10-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines  
Type of Sample : Surface Water  
Date of Sample Collection/Monitoring : 17-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 10-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Somodi Pond

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984
5	pH	8.09	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	160	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	25.07	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	242	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	49.6	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	8.75	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	87.86	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	1.70	IS 3025 (Part 34) : 1988

Note:

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Raj



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E-mail: [director@teamtesthouse.com](mailto:director@teamtesthouse.com)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	BDL(<0.1)	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	140	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.28	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Suspended Solids [mg/l]	22	IS 3025 (part 15) : 1984
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992

Notes :-

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*[Signature]*

Senior Analyst

*[Signature]*

Authorized Signatory

(Report No: W/NABL/104 )



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

## TEST REPORT

Report No.: W/104  
Job Identification: 10619/17-18  
Date: 10-04-2018  
Issued To: M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit: Mines  
Type of Sample: Surface Water  
Date of Sample Collection/Monitoring: 17-03-2018  
Date of Sample Receipt: 23-03-2018  
Date of Test: 23-03-2018 to 10-04-2018  
Sample Collected By: Parsa Ram Kudi  
Point of Collection: Somodi Pond


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
2	Pesticides [mg/l]	Not Detected	APHA : 2012
3	Calcium Hardness [mg/l]	124	IS 3025 (Part 40) : 1991

### Notes :-

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Puran Mal Yogi  
Senior Analyst

  
Authorized Signatory  
(Report No: W/104)



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E-mail : [director@teamtesthouse.com](mailto:director@teamtesthouse.com)

## TEST REPORT

Report No	: WW/NABL/23
Job Identification	: 10620/17-18
Date	: 05/04/2018
Issued to	: M/s. Jindal Saw Limited
	: Dhedwas Iron Ore Copper & Associated Minerals
	: Mines , Araj no. 9697/6711 Near Tiranga Hills
	: Village - Pur Tehsil & District – Bhilwara – 311802
Type of Unit	: Mines
Type of Sample	: Waste Water
Collected by	: Mr. Parsha Ram Kudi
Date of Sample Collection	: 21/03/2018
Date of Received	: 23/03/2018
Date of Test	: 23/03/2018 to 31/03/2018
Point of Collection	: Tailing Filter Press Recycling

## RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.50
3.	Total Suspended Solids	mg/l	33
4.	Oil & Grease mg/l	mg/l	3
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	4.33
6.	Chemical Oxygen Demand	mg/l	30.72
7.	Dissolved Oxygen	mg/l	7.4
8.	Ammonical Nitrogen as NH <sub>4</sub> -N	mg/l	2.4
9.	Total Kjeldahal Nitrogen as N	mg/l	9.24
10.	Free Ammonia as NH <sub>3</sub>	mg/l	0.84
11.	Nitrate Nitrogen as NO <sub>3</sub> -N	mg/l	5.26
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	0.77
14.	Total Dissolved Solid (TDS)	mg/l	1820
15.	Total Phosphate as PO <sub>4</sub> -P	mg/l	1.67
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL(<0.0001)
18.	Arsenic as As	mg/l	BDL(<0.01)
19.	Mercury as Hg	mg/l	BDL(<0.001)
20.	Lead as Pb	mg/l	BDL(<0.01)
21.	Cadmium as Cd	mg/l	0.004
22.	Copper as Cu	mg/l	0.03
23.	Zinc as Zn	mg/l	0.15
24.	Selenium as Se	mg/l	BDL(<0.01)
25.	Nickel as Ni	mg/l	0.02
26.	Cynide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	0.28
28.	Iron as Fe	mg/l	0.04
29.	Total Chromium as Cr	mg/l	BDL(<0.01)

Note: -

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Purushottam  
Senior Analyst

Authorized Signatory  
(Report No: WW/NABL/23)



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E-mail : [director@teamtesthouse.com](mailto:director@teamtesthouse.com)

## TEST REPORT

Report No.	: WW/NABL/24
Job Identification	: 10621/17-18
Date	: 05/04/2018
Issued to	: M/s. Jindal Saw Limited Dhedwas Iron Ore Copper & Associated Minerals Mines, Arajai no. 9697/6711 Near Tiranga Hills Village - Pur Tehsil & District - Bhilwara - 311802
Type of Unit	: Mines
Type of Sample	: Waste Water
Collected by	: Mr. Parsha Ram Kudi
Date of Sample Collection	: 21/03/2018
Date of Received	: 23/03/2018
Date of Test	: 23/03/2018 to 30/03/2018
Point of Collection	: Tailing Pond Recycling water

## RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	5
2.	pH	-	7.85
3.	Total Suspended Solids	mg/l	22
4.	Oil & Grease mg/l	mg/l	3
5.	Biochemical Oxygen Demand (3 days at 27 <sup>o</sup> C)	mg/l	8.67
6.	Chemical Oxygen Demand	mg/l	49.15
7.	Dissolved Oxygen	mg/l	7.4
8.	Ammonical Nitrogen as NH <sub>4</sub> -N	mg/l	2.38
9.	Total Kjeldahal Nitrogen as N	mg/l	8.2
10.	Free Ammonia as NH <sub>3</sub>	mg/l	0.28
11.	Nitrate Nitrogen as NO <sub>3</sub> -N	mg/l	7.06
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	0.95
14.	Total Dissolved Solid (TDS)	mg/l	1713
15.	Total Phosphate as PO <sub>4</sub> -P	mg/l	0.30
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL (< 0.001)
18.	Arsenic as As	mg/l	BDL (< 0.01)
19.	Mercury as Hg	mg/l	BDL (< 0.001)
20.	Lead as Pb	mg/l	0.01
21.	Cadmium as Cd	mg/l	0.004
22.	Copper as Cu	mg/l	0.02
23.	Zinc as Zn	mg/l	0.03
24.	Selenium as Se	mg/l	BDL (< 0.01)
25.	Nickel as Ni	mg/l	BDL (< 0.01)
26.	Cynide as CN	mg/l	BDL (< 0.01)
27.	Manganese as Mn	mg/l	BDL (< 0.01)
28.	Iron as Fe	mg/l	BDL (< 0.01)
29.	Total Chromium as Cr	mg/l	BDL (< 0.01)

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Senior Analyst

Senior Analyst



# TEAM TEST HOUSE

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

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E-mail : [director@teamtesthouse.com](mailto:director@teamtesthouse.com)

## TEST REPORT

Report No. : WW/NABL/25  
Job Identification : 10622/17-18  
Date : 05/04/2018  
Issued to : M/s. Jindal Saw Limited  
Dhedwas Iron Ore Copper & Associated Minerals  
Mines, Arajai no. 9697/6711 Near Tiranga Hills  
Village - Pur Tehsil & District - Bhilwara - 311802  
Type of Unit : Mines  
Type of Sample : Waste Water  
Collected by : Mr. Parsha Ram Kudi  
Date of Sample Collection : 21/03/2018  
Date of Received : 23/03/2018  
Date of Test : 23/03/2018 to 30/03/2018  
Point of Collection : STP Water Reservoir

## RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.84
3.	Total Suspended Solids	mg/l	70
4.	Oil & Grease mg/l	mg/l	6
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	13
6.	Chemical Oxygen Demand	mg/l	38.7
7.	Dissolved Oxygen	mg/l	5.4
8.	Ammonical Nitrogen as NH <sub>4</sub> -N	mg/l	1.40
9.	Total Kjeldahal Nitrogen as N	mg/l	7.88
10.	Free Ammonia as NH <sub>3</sub>	mg/l	0.28
11.	Nitrate Nitrogen as NO <sub>3</sub> -N	mg/l	7.11
12.	Total Residual Chlorine	mg/l	BDL (<0.1)
13.	Fluoride	mg/l	1.17
14.	Total Dissolved Solid (TDS)	mg/l	1856
15.	Total Phosphate as PO <sub>4</sub> -P	mg/l	1.55
16.	Sulphide as S	mg/l	BDL(<0.01)
17.	Phenolic Compound	mg/l	BDL(<0.01)
18.	Arsenic as As	mg/l	BDL(<0.01)
19.	Mercury as Hg	mg/l	BDL(<0.001)
20.	Lead as Pb	mg/l	BDL(<0.01)
21.	Cadmium as Cd	mg/l	BDL (< 0.01)
22.	Copper as Cu	mg/l	BDL(<0.01)
23.	Zinc as Zn	mg/l	0.10
24.	Selenium as Se	mg/l	BDL(<0.01)
25.	Nickel as Ni	mg/l	BDL(<0.01)
26.	Cyanide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	BDL(<0.01)
28.	Iron as Fe	mg/l	0.04
29.	Total Chromium as Cr	mg/l	BDL(<0.01)

Note: -

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*Parsha Ram Kudi*

*Director*



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## TEST REPORT

Report No. : VVV/NABL/26  
Job Identification : 10623/17-18  
Date : 05/04/2018  
Issued to : M/s. Jindal Saw Limited  
Dhedwas Iron Ore Copper & Associated Minerals  
Mines, Arajai no. 9697/6711 Near Tiranga Hills  
Village - Pur Tehsil & District - Bhilwara - 311802  
Type of Unit : Mines  
Type of Sample : Waste Water  
Collected by : Mr. Parsha Ram Kudi  
Date of Sample Collection : 21/03/2018  
Date of Received : 23/03/2018  
Date of Test : 23/03/2018 to 30/03/2018  
Point of Collection : Siltation Pond

## RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.51
3.	Total Suspended Solids	mg/l	47
4.	Oil & Grease mg/l	mg/l	8
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	24
6.	Chemical Oxygen Demand	mg/l	161.28
7.	Dissolved Oxygen	mg/l	6.4
8.	Ammonical Nitrogen as NH <sub>4</sub> -N	mg/l	1.40
9.	Total Kjeldahal Nitrogen as N	mg/l	15.32
10.	Free Ammonia as NH <sub>3</sub>	mg/l	0.80
11.	Nitrate Nitrogen as NO <sub>3</sub> -N	mg/l	8.65
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	1.24
14.	Total Dissolved Solid (TDS)	mg/l	1693
15.	Total Phosphate as PO <sub>4</sub> -P	mg/l	2.78
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL (< 0.0001)
18.	Arsenic as As	mg/l	BDL (< 0.01)
19.	Mercury as Hg	mg/l	BDL (< 0.001)
20.	Lead as Pb	mg/l	0.02
21.	Cadmium as Cd	mg/l	0.004
22.	Copper as Cu	mg/l	0.01
23.	Zinc as Zn	mg/l	0.18
24.	Selenium as Se	mg/l	BDL (< 0.01)
25.	Nickel as Ni	mg/l	BDL (< 0.01)
26.	Cynide as CN	mg/l	BDL (< 0.01)
27.	Manganese as Mn	mg/l	0.15
28.	Iron as Fe	mg/l	0.04
29.	Total Chromium as Cr	mg/l	0.02

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Purnima Yogi  
Senior Analyst

  
Rajesh Mishra  
Senior Analyst



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## TEST REPORT

Report No.	: WW/NABL/27
Job Identification	: 10624/17-18
Date	: 05/04/2018
Issued to	: M/s. Jindal Saw Limited
	: Dhedwas Iron Ore Copper & Associated Minerals
	: Mines, Araji no. 9697/6711 Near Tiranga Hills
	: Village - Pur Tehsil & District – Bhilwara – 311802
Type of Unit	: Mines
Type of Sample	: Waste Water
Collected by	: Mr. Parsha Ram Kudi
Date of Sample Collection	: 21/03/2018
Date of Received	: 23/03/2018
Date of Test	: 23/03/2018 to 30/03/2018
Point of Collection	: BFN Recycling Water

## RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.81
3.	Total Suspended Solids	mg/l	30
4.	Oil & Grease mg/l	mg/l	3
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	6.5
6.	Chemical Oxygen Demand	mg/l	33.79
7.	Dissolved Oxygen	mg/l	7.7
8.	Ammonical Nitrogen as NH <sub>4</sub> -N	mg/l	0.56
9.	Total Kjeldahal Nitrogen as N	mg/l	9.08
10.	Free Ammonia as NH <sub>3</sub>	mg/l	0.40
11.	Nitrate Nitrogen as NO <sub>3</sub> -N	mg/l	8.48
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	1.21
14.	Total Dissolved Solid (TDS)	mg/l	2977
15.	Total Phosphate as PO <sub>4</sub> -P	mg/l	2.15
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL (< 0.0001)
18.	Arsenic as As	mg/l	BDL (< 0.01)
19.	Mercury as Hg	mg/l	BDL (< 0.001)
20.	Lead as Pb	mg/l	BDL (< 0.01)
21.	Cadmium as Cd	mg/l	0.004
22.	Copper as Cu	mg/l	BDL (< 0.01)
23.	Zinc as Zn	mg/l	0.20
24.	Selenium as Se	mg/l	BDL (< 0.01)
25.	Nickel as Ni	mg/l	0.02
26.	Cynide as CN	mg/l	BDL (< 0.01)
27.	Manganese as Mn	mg/l	0.31
28.	Iron as Fe	mg/l	0.06
29.	Total Chromium as Cr	mg/l	0.01

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*Purushottam Singh*  
Senior Analyst

*Rajesh Mohan*  
Authorized Signatory



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : A/24  
Job Identification. : 10582/17-18  
Date : 04-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 13-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 02-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Near Tiranga Pit [25°19.526" N 074°32.326"E]

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	16.7	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	350	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.31	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.2	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	14.9	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	341.47	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	39.07	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.06	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	83.66	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	13.3	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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*Parsa Ram Kudi*  
Parsa Ram Kudi

*Rajesh Maheshwari*  
Rajesh Maheshwari



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## TEST REPORT

Report No. : A/25  
Job Identification : 10583/17-18  
Date : 04-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 13-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 02-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Near Dhulkhera Pit

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	10.7	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	320	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.22	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.49	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	13.2	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	373.88	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	41.84	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.19	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	82.86	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	7.13	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Pawan K. Yogi  
Senior Analyst

Rajesh K. Shrivastava  
Authorized Signatory



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E-mail : director@teamtesthouse.com

### TEST REPORT

Report No. : A/26  
Job Identification. : 10584/17-18  
Date : 04-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 13-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 02-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Suras Pit

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	15.6	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	330	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m <sup>3</sup> ]	0.33	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.68	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m <sup>3</sup> ]	15.6	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	294.18	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	45.93	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.45	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	77.35	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m <sup>3</sup> ]	9.4	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Rajesh Maneshwar

  
Rajesh Maneshwar



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## TEST REPORT

Report No. : A/27  
Job Identification. : 10585/17-18  
Date : 04-04-2018  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 14-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 03-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Samodi Village

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL (<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	350	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m <sup>3</sup> ]	0.09	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.75	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL (<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	160.94	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	24.75	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.67	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	63.63	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m <sup>3</sup> ]	2.3	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

### Notes :-

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*Parsa Ram Kudi*  
Dhyan Khatiwala

*Rajesh*  
Rajesh Maheshwari



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## TEST REPORT

Report No: A/3392  
Date: 31/03/2018  
Issued to: M/s. Jindal Saw Limited (dhedwas mines)  
Dhedwas Iron Ore Copper & Associate Minerals mines  
Araji No.9697/6711, Near Tirnga Hills, Village -Pur,  
District Bhilwara 311802 (Rajasthan)

Type of Unit: mines  
Type of Monitoring: Ambient Air Quality Monitoring  
Date of Sample Collection/ Monitoring: 26/03/2018  
Date of Receipt: 28/03/2018  
Date of Test: 28/03/2018 to 31/03/2018  
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 <sup>3</sup> ]	250	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m <sup>3</sup> ]	13.2	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	216	IS 5182 (Part 4) : 1999 Reaffirmed 2012	-
4.	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	26.8	CPCB Guidelines	60.00
5.	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.80	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6.	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	64.53	IS 5182 (Part 23) Reaffirmed 2012	100.00

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Purnan Mal Yogi  
Senior Analyst

  
Rajesh Maneshwan  
Authorized Signatory  
(Report No A/3392)



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## TEST REPORT

Report No: A/3390  
Date: 31/03/2018  
Issued to: M/s. Jindal Saw Limited (dhedwas mines)  
Dhedwas Iron Ore Copper & Associate Minerals mines  
Araji No.9697/6711, Near Tirnga Hills, Village -Pur,  
District Bhilwara 311802 (Rajasthan)  
Type of Unit: mines  
Type of Monitoring: Ambient Air Quality Monitoring  
Date of Sample Collection/ Monitoring: 26/03/2018  
Date of Receipt: 28/03/2018  
Date of Test: 28/03/2018 to 31/03/2018  
Sample Collected By: Satyendra Kumar Sharma  
Point of Collection: Near Dhulkhera Pit

## RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Carbon Monoxide [microgram/m <sup>3</sup> ]	310	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m <sup>3</sup> ]	16.35	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	268	IS 5182 (Part 4) : 1999 Reaffirmed 2012	-
4.	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	38.7	CPCB Guidelines	60.00
5.	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.81	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6.	Particulate Matter (PM10) [microgram/m <sup>3</sup> ]	78.35	IS 5182 (Part 23) Reaffirmed 2012	100.00

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Authorized Signatory  
(Report No A/3390)



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## TEST REPORT

Report No: A/3391  
Date: 31/03/2018  
Issued to: M/s. Jindal Saw Limited (dhedwas mines)  
Dhedwas Iron Ore Copper & Associate Minerals mines  
Araji No.9697/6711, Near Tirnga Hills, Village -Pur,  
District Bhilwara 311802 (Rajasthan)  
mines  
Type of Unit: Ambient Air Quality Monitoring  
Type of Monitoring: 26/03/2018  
Date of Sample Collection/ Monitoring: 28/03/2018  
Date of Receipt: 28/03/2018 to 31/03/2018  
Date of Test: Satyendra Kumar Sharma  
Sample Collected By: Near Suras Pit  
Point of Collection: RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Carbon Monoxide [microgram/m <sup>3</sup> ]	290	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m <sup>3</sup> ]	15.02	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	277	IS 5182 (Part 4) : 1999 Reaffirmed 2012	-
4.	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	36.3	CPCB Guidelines	60.00
5.	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.42	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6.	Particulate Matter (PM10) [microgram/m <sup>3</sup> ]	76.5	IS 5182 (Part 23) Reaffirmed 2012	100.00

Notes: -

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Rupa Maheshwari  
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(Report No A/3391)



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## TEST REPORT

Report No: A/3389  
Date: 31/03/2018  
Issued to: M/s. Jindal Saw Limited (dhedwas mines)  
Dhedwas Iron Ore Copper & Associate Minerals mines  
Araji No.9697/6711, Near Tirnga Hills, Village -Pur,  
District Bhilwara 311802 (Rajasthan)  
Type of Unit: mines  
Type of Monitoring: Ambient Air Quality Monitoring  
Date of Sample Collection/ Monitoring: 26/03/2018  
Date of Receipt: 28/03/2018  
Date of Test: 28/03/2018 to 31/03/2018  
Sample Collected By: Satyendra Kumar Sharma  
Point of Collection: Near Tirnga Pit

## RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Carbon Monoxide [microgram/m <sup>3</sup> ]	350	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m <sup>3</sup> ]	17.5	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	316	IS 5182 (Part 4) : 1999 Reaffirmed 2012	-
4.	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	35.19	CPCB Guidelines	60.00
5.	Sulphur Dioxide [microgram/m <sup>3</sup> ]	8.25	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6.	Particulate Matter (PM10) [microgram/m <sup>3</sup> ]	81.2	IS 5182 (Part 23) Reaffirmed 2012	100.00

### Notes: -

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Rajesh Maheshwari  
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## TEST REPORT

Report No N/1417  
Date 31/07/2018  
Issued to M/s. Jindal Saw Limited  
Dhedwas Iron Ore Copper & Associated Minerals  
Mines , Araji no. 9697/6711 Near Tiranga Hills  
Village - Pur Tehsil & District - Bhilwara - 311802  
(Rajasthan)  
Type of Unit Mines  
Date of Monitoring 17/03/2018 to 20/03/2018  
Date of Sample Receipt 24/03/2018  
Date of Test 24/03/2018  
Sample Collected by Parsha Ram Kuri  
Type of Monitoring Ambient Noise Monitoring

## RESULTS

Sr. No.	Point Of Monitoring	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Nr. Raw Material Storage yard (Tiranga Pit)	63.8	54.7
2.	Dhulkhera mines Area (10.0 m of loading Point)	66.5	58.2
3.	Suras Mines Area (10.0 m of loading Point)	66.9	58.1
4.	Tiranga Mines Area (10.0 m of loading Point)	63.8	54.2
5.	Nr. Central Store/ Tata Blue Shed	73.2	64.3
6.	Nr. Crusher (CCR Building)	68.5	61.8
7.	Filter Fresh Building	68.5	61.5
8.	Nr. BEN CCR Building	65.3	60.4

### Standard Limits [in dB (A)] Leq:

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

### Note: -

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Rajesh Maheshwari  
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(Report No.: - N/1417)



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## TEST REPORT

Report No N/1416  
Date 30/03/2018  
Issued to M/s. Jindal Saw Limited  
Dhedwas Iron Ore Copper & Associated Minerals  
Mines, Araj no. 9697/6711 Near Tiranga Hills  
Village - Pur Tehsil & District - Bhilwara - 311802  
(Rajasthan)  
Type of Unit Mines  
Date of Monitoring 16/03/2018 to 20/03/2018  
Date of Sample Receipt 24/03/2018  
Date of Test 24/03/2018  
Sample Collected by Parsha Ram Kuri  
Type of Monitoring Ambient Noise Monitoring

## RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Pur Village	Rural Area	53.9	42.8
2.	Samodi Village	Rural Area	53.4	42.4
3.	Suras Village	Rural Area	52.3	42.9
4.	Gandhi Sagar park, Bhilwara	Rural Area	53.1	42.3
5.	Kanoli Village	Rural Area	50.5	40.2
6.	Dhulkhera Village	Rural Area	52.7	43.5
7.	Dariba Village	Rural Area	51.9	41.3

### 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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*Purant*  
Purant M. Yogi  
Senior Analyst

*Raj*  
Rajash Maheshwar  
Authorized Signatory  
(Report No.: - N/1416)