



# TEAM TEST HOUSE

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

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

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

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## TEST REPORT

Report No. : A/3117  
 Job Identification : 11147/16-17  
 Date : 24-03-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Ambient Air Quality Monitoring  
 Date of Sample Collection/Monitoring : 05-03-2017  
 Date of Sample Receipt : 15-03-2017  
 Date of Test : 15-03-2017 to 24-03-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Pur Village (Ram Lal House)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m <sup>3</sup> ]	230	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	17.54	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	264.56	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	33.88	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.62	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	80.85	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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*Parsa Ram Kudi*  
Senior Analyst

*Rajesh Maheshwan*  
Authorized Signatory  
(Report No: A/3117)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : A/3116  
 Job Identification. : 11146/16-17  
 Date : 24-03-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Ambient Air Quality Monitoring  
 Date of Sample Collection/Monitoring : 04-03-2017  
 Date of Sample Receipt : 15-03-2017  
 Date of Test : 15-03-2017 to 24-03-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Dariba Village (Hariram House)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m <sup>3</sup> ]	200	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	10.78	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	263.63	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	21.98	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.22	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	67.99	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

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*Purushottam*  
 Purushottam Mal Yogi  
 Senior Analyst

*Rajesh*  
 Rajesh Maheshwari  
 Authorized Signatory  
 (Report No: A/3116)



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## TEST REPORT

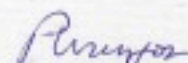
Report No. : A/3118  
 Job Identification. : 11148/16-17  
 Date : 24-03-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Ambient Air Quality Monitoring  
 Date of Sample Collection/Monitoring : 05-03-2017  
 Date of Sample Receipt : 15-03-2017  
 Date of Test : 15-03-2017 to 24-03-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Kanoli Village (Kuldeep singh house -On Roof)

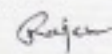
## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	190	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.73	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	179.18	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	19.77	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.7	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	73.87	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

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 Puran Mal Yogi  
 Senior Analyst

  
 Rajesh Maheshwan  
 Authorized Signatory  
 (Report No: A/3118)



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## TEST REPORT

Report No. : A/3119  
 Job Identification : 11149/16-17  
 Date : 24-03-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Ambient Air Quality Monitoring  
 Date of Sample Collection/Monitoring : 06-03-2017  
 Date of Sample Receipt : 15-03-2017  
 Date of Test : 15-03-2017 to 24-03-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Gandhi sagar village

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m <sup>3</sup> ]	270	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.21	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	246.33	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	30.72	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.45	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	68.36	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

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Puran Mal Yogi  
Senior Analyst

Rajesh Maheshwan  
Authorized Signatory  
(Report No: A/3119)



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## TEST REPORT

Report No. : A/3120  
Job Identification. : 11150/16-17  
Date : 24-03-2017  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 08-03-2017  
Date of Sample Receipt : 15-03-2017  
Date of Test : 15-03-2017 to 24-03-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Single Mill Area Benefication Plant

## 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> ]	380	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	17.11	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	322.91	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	41.09	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	9.39	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	75.59	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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**Puran Mal Yogi**  
Senior Analyst

**Rajesh Maheshwar**  
Authorized Signatory  
(Report No: A/3120)



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Report No. teamtesthouse.com

A/3121

Job Identification :

11151/16-17

Date :

24-03-2017

Issued To :

M/S Jindal Saw Limited (Dhedwas Mines)

Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.

9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara

District-Bhilwara 311802 (Rajasthan)

Type of Unit :

Mines

Type of Sample :

Ambient Air Quality Monitoring

Date of Sample Collection/Monitoring :

06-03-2017

Date of Sample Receipt :

15-03-2017

Date of Test :

15-03-2017 to 24-03-2017

Sample Collected By :

Parsa 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	Carbon Monoxide [microgram/m <sup>3</sup> ]	430	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	19.69	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	352.74	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	30.91	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.4	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	89.23	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

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Ruran Maj Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/3121)



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## TEST REPORT

Report No. : W/NABL/12  
Job Identification : 11111/16-17  
Date : 03-04-2017  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajli No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 06-03-2017  
Date of Sample Receipt : 14-03-2017  
Date of Test : 14-03-2017 to 01-04-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Piezometer Well No. 1

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL(<0.01)	IS 3025 (Part 10) : 1984
5	pH	7.34	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	344	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	60.22	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	580	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	100.8	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	22.36	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]	68.24	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	28.54	IS 3025 (Part 34) : 1988

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*Raj*



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[director@teamtesthouse.com](mailto:director@teamtesthouse.com)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	1.45	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]	196	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.44	IS 13428 (Annexure H)
24	Suspended Solids [mg/l]	17	IS 3025 (part 15) : 1984
25	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
27	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
28	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003

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Purnan Mal Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/12 )



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## TEST REPORT

Report No. : W/NABL/13  
 Job Identification. : 11112/16-17  
 Date : 03-04-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 07-03-2017  
 Date of Sample Receipt : 14-03-2017  
 Date of Test : 14-03-2017 to 01-04-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Piezometer Well No. 2 (Plant Gate No.6)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984
5	pH	6.95	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	568	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	182.61	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	1113	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	163.2	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	38.88	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]	122.0	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	38.74	IS 3025 (Part 34) : 1988

Note:

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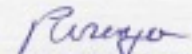
[testingdirector@teamtesthouse.com](mailto:testingdirector@teamtesthouse.com)


## RESULTS

S.No	Parameters	Observed Value	Testing Method
16	Fluoride [mg/l]	1.38	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]	360	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.25	IS 13428 (Annexure H)
24	Suspended Solids [mg/l]	14	IS 3025 (part 15) : 1984
25	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
27	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
28	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003

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P. Anand Prasad  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/13)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/14  
 Job Identification. : 11113/16-17  
 Date : 03-04-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 07-03-2017  
 Date of Sample Receipt : 14-03-2017  
 Date of Test : 14-03-2017 to 03-04-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Piezometer Well No.3 (Suras Mine)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.12	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	520	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	79.65	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	819	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	120	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	53.46	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]	55.70	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	25.93	IS 3025 (Part 34) : 1988

Note:

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[testingdirector@teamtesthouse.com](mailto:testingdirector@teamtesthouse.com)

## RESULTS

S.No	Parameters	Observed Value	Testing Method
16	Fluoride [mg/l]	1.27	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]	404	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.24	IS 13428 (Annexure H)
24	Suspended Solids [mg/l]	18	IS 3025 (part 15) : 1984
25	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
27	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
28	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003

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*Puranya*  
Senior Analyst

*Rajesh*  
Authorized Signatory  
(Report No: W/NABL/14)



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## TEST REPORT

Report No. : W/NABL/15  
 Job Identification. : 11114/16-17  
 Date : 03-04-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 07-03-2017  
 Date of Sample Receipt : 14-03-2017  
 Date of Test : 14-03-2017 to 03-04-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Piezometer Well No.4 (Suras Mine)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.41	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	410	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	330.25	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	1383	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	112	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	31.59	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]	164.23	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	40.11	IS 3025 (Part 34) : 1988

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[director@teamtesthouse.com](mailto:director@teamtesthouse.com)

## RESULTS

S.No	Parameters	Observed Value	Test Standard
16	Fluoride [mg/l]	0.52	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]	112	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.20	IS 13428 (Annexure H)
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
25	Suspended Solids [mg/l]	15	IS 3025 (part 15) : 1984
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
29	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003

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Senior Analyst Yogi

Raiesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/15)



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## TEST REPORT

Report No. : W/NABL/16  
 Job Identification. : 11115/16-17  
 Date : 03-04-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 06-03-2017  
 Date of Sample Receipt : 14-03-2017  
 Date of Test : 14-03-2017 to 03-04-2017  
 Sample Collected By : Parsa Ram Kudl  
 Point of Collection : Piezometer Well No.5

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.06	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	580	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	636.22	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	1697	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	172	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	36.45	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]	368.0	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	37.0	IS 3025 (Part 34) : 1988

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*Parsa*



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[testingdirector@teamtesthouse.com](mailto:testingdirector@teamtesthouse.com)

## RESULTS

S.No	Parameters	Observed Value	Testing Method
16	Fluoride [mg/l]	1.36	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]	530	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.25	IS 13428 (Annexure H)
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
25	Suspended Solids [mg/l]	18	IS 3025 (part 15) : 1984
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
29	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003

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*Puraj*  
**Puraj Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: W/NABL/16 )



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## TEST REPORT

Report No. : W/NABL/17  
 Job Identification. : 11116/16-17  
 Date : 03-04-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 06-03-2017  
 Date of Sample Receipt : 14-03-2017  
 Date of Test : 14-03-2017 to 03-04-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Piezometer Well No.6 (Dhulkhera Mine)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.12	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	570	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	257.4	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	1324	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	152	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	46.17	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]	138.0	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	42.0	IS 3025 (Part 34) : 1988

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## RESULTS

S.No	Parameters	Observed Value	Test Standard
16	Fluoride [mg/l]	0.82	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]	500	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.36	IS 13428 (Annexure H)
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
25	Suspended Solids [mg/l]	19	IS 3025 (part 15) : 1984
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
29	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003

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Puran Mal Yogi  
Senior Analyst

Rajesh Mohashwani  
Authorized Signatory  
(Report No: W/NABL/17)



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## TEST REPORT

Report No. : W/NABL/18  
 Job Identification : 11117/16-17  
 Date : 03-04-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 06-03-2017  
 Date of Sample Receipt : 14-03-2017  
 Date of Test : 14-03-2017 to 30-03-2017  
 Sample Collected By : Parsha Ram Kudi  
 Point of Collection : Piezometer Well No.7

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.41	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	188	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	118.5	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	604	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	41.6	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	20.41	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]	87.62	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	26	IS 3025 (Part 34) : 1988

Note:

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Raj



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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	1.41	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]	256	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL (<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.21	IS 13428 (Annexure H)
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002
25	Suspended Solids [mg/l]	16	IS 3025 (part 15) : 1984
26	Total Chromium [mg/l]	BDL (<0.01)	APHA :2012 :3111- B
27	Free Residual Chlorine [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986
28	selenium [mg/l]	BDL (<0.01)	IS 3025 (Part 56) : 2003
29	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003

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*Purva*  
Purva May Yogi  
Senior Analyst

*Baran*  
Authorized Signatory  
(Report No: W/NABL/18)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/19  
 Job Identification. : 11118/16-17  
 Date : 03-04-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 06-03-2017  
 Date of Sample Receipt : 14-03-2017  
 Date of Test : 14-03-2017 to 30-03-2017  
 Sample Collected By : Parsha Ram Kudi  
 Point of Collection : Piezometer Well No.8

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.34	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	144	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	31.25	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	458	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	38.4	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	11.66	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	76.61	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	18.42	IS 3025 (Part 34) : 1988

Note:

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*Parsha*



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## RESULTS

S.No.	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	1.34	IS 5025 (Part 60) : 1992
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]	200	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL (<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.36	IS 13428 (Annexure H)
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002
25	Suspended Solids [mg/l]	14	IS 3025 (part 15) : 1984
26	Total Chromium [mg/l]	BDL (<0.01)	APHA : 2012 : 3111- B
27	Free Residual Chlorine [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986
28	selenium [mg/l]	BDL (<0.01)	IS 3025 (Part 56) : 2003
29	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003

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*Puranjot*  
**Puranjot Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: W/NABL/19)



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

## TEST REPORT

Report No	: WW/NABL/16
Job Identification	: 11106/16-17
Date	: 03/04/2017
Issued to	: M/s. Jindal Saw Limited
	: Dhedwas Iron Ore Copper & Associated Minerals
	: Mines , Araji no. 9697/6711 Near Tiranga Hills
	: Village - Pur Tehsil & District - Bhilwara - 311802
Type of Unit	: Mines
Type of Sample	: Waste Water
Collected by	: Mr. Parsha Ram Kudi
Date of Sample Collection	: 10/03/2017
Date of Received	: 14/03/2017
Date of Test	: 14/03/2017 to 30/03/2017
Point of Collection	: Tailing Pond Recycling water

## RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.45
3.	Total Suspended Solids	mg/l	22
4.	Oil & Grease mg/l	mg/l	4
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	6.0
6.	Chemical Oxygen Demand	mg/l	48
7.	Dissolved Oxygen	mg/l	7.5
8.	Ammonical Nitrogen as NH <sub>4</sub> -N	mg/l	5.88
9.	Total Kjeldahal Nitrogen as N	mg/l	8.71
10.	Free Ammonia as NH <sub>3</sub>	mg/l	1.18
11.	Nitrate Nitrogen as NO <sub>3</sub> -N	mg/l	4.38
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	1.17
14.	Total Dissolved Solid (TDS)	mg/l	1884
15.	Total Phosphate as PO <sub>4</sub> -P	mg/l	1.30
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	0.29
21.	Cadmium as Cd	mg/l	0.05
22.	Copper as Cu	mg/l	0.04
23.	Zinc as Zn	mg/l	0.13
24.	Selenium as Se	mg/l	BDL (< 0.01)
25.	Nickel as Ni	mg/l	0.04
26.	Cynide as CN	mg/l	BDL (< 0.01)
27.	Manganese as Mn	mg/l	0.32
28.	Iron as Fe	mg/l	0.06

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Purnima Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: WW/NABL/16)



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

## TEST REPORT

Report No	: WW/NABL/18
Job Identification	: 11107/16-17
Date	: 03/04/2017
Issued to	: M/s. Jindal Saw Limited Dhedwas Iron Ore Copper & Associated Minerals Mines , Araji no. 9697/6711 Near Tiranga Hills Village - Pur Tehsil & District – Bhilwara – 311802
Type of Unit	: Mines
Type of Sample	: Waste Water
Collected by	: Mr. Parsha Ram Kudi
Date of Sample Collection	: 10/03/2017
Date of Received	: 14/03/2017
Date of Test	: 14/03/2017 to 30/03/2017
Point of Collection	: Tailing Filter Press Recycling

## RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	5
2.	pH	-	7.71
3.	Total Suspended Solids	mg/l	27
4.	Oil & Grease mg/l	mg/l	4
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	8.5
6.	Chemical Oxygen Demand	mg/l	30.56
7.	Dissolved Oxygen	mg/l	6.8
8.	Ammonical Nitrogen as NH <sub>4</sub> -N	mg/l	2.48
9.	Total Kjeldahal Nitrogen as N	mg/l	7.45
10.	Free Ammonia as NH <sub>3</sub>	mg/l	0.61
11.	Nitrate Nitrogen as NO <sub>3</sub> -N	mg/l	7.54
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	1.26
14.	Total Dissolved Solid (TDS)	mg/l	1577
15.	Total Phosphate as PO <sub>4</sub> -P	mg/l	2.81
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL(<0.0001)
18.	Arsenic as As	mg/l	BDL(<0.01)
19.	Mercury as Hg	mg/l	BDL(<0.001)
20.	Lead as Pb	mg/l	0.02
21.	Cadmium as Cd	mg/l	BDL (< 0.001)
22.	Copper as Cu	mg/l	0.07
23.	Zinc as Zn	mg/l	0.17
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	0.16
28.	Iron as Fe	mg/l	0.08

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*Puran*  
Puran Mal Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: WW/NABL/18)



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

## TEST REPORT

Report No.	: WW/NABL/18
Job Identification	: 11108/16-17
Date	: 03/04/2017
Issued to	: M/s. Jindal Saw Limited
	: Dhedwas Iron Ore Copper & Associated Minerals
	: Mines , Arajai no. 9697/6711 Near Tiranga Hills
	: Village - Pur Tehsil & District – Bhilwara – 311802
Type of Unit	: Mines
Type of Sample	: Waste Water
Collected by	: Parsha Ram Kudi
Date of Sample Collection	: 10/03/2017
Date of Received	: 14/03/2017
Date of Test	: 14/03/2017 to 30/03/2017
Point of Collection	: STP Water Reservoir

## RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.75
3.	Total Suspended Solids	mg/l	33
4.	Oil & Grease mg/l	mg/l	4
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	10.56
6.	Chemical Oxygen Demand	mg/l	53.33
7.	Dissolved Oxygen	mg/l	5.5
8.	Ammonical Nitrogen as NH <sub>4</sub> -N	mg/l	4.22
9.	Total Kjeldahal Nitrogen as N	mg/l	13.25
10.	Free Ammonia as NH <sub>3</sub>	mg/l	0.75
11.	Nitrate Nitrogen as NO <sub>3</sub> -N	mg/l	7.85
12.	Total Residual Chlorine	mg/l	BDL (<0.1)
13.	Fluoride	mg/l	1.43
14.	Total Dissolved Solid (TDS)	mg/l	1623
15.	Total Phosphate as PO <sub>4</sub> -P	mg/l	2.80
16.	Sulphide as S	mg/l	0.45
17.	Phenolic Compound	mg/l	0.10
18.	Arsenic as As	mg/l	BDL (<0.01)
19.	Mercury as Hg	mg/l	BDL (<0.001)
20.	Lead as Pb	mg/l	0.06
21.	Cadmium as Cd	mg/l	0.02
22.	Copper as Cu	mg/l	0.08
23.	Zinc as Zn	mg/l	0.22
24.	Selenium as Se	mg/l	BDL (<0.01)
25.	Nickel as Ni	mg/l	0.05
26.	Cyanide as CN	mg/l	BDL (<0.01)
27.	Manganese as Mn	mg/l	0.10
28.	Iron as Fe	mg/l	0.12

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*Rajesh Maheshwari*  
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## TEST REPORT

Report No. : W/NABL/1297  
 Job Identification. : 11120/16-117  
 Date : 30-03-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 05-03-2017  
 Date of Sample Receipt : 14-03-2017  
 Date of Test : 14-03-2017 to 30-03-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Pur Village (Near Balaji Mandir)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.39	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	544	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]	238.95	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1055	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	136	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	49.57	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]	132.40	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	33.56	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	Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.63	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]	0.42	IS 13428 (Annexure H)	0.5	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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*Purandhar Malvogi*  
Senior Analyst

*Gayatri*  
Authorized Signatory  
(Report No: W/NABL/1297 )



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

## TEST REPORT

Report No. : W/NABL/1301  
Job Identification. : 11124/16-117  
Date : 30-03-2017  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 05-03-2017  
Date of Sample Receipt : 14-03-2017  
Date of Test : 14-03-2017 to 30-03-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Dariba Village (Govt. Tubewell Water-Aruvedic Dispansary)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.77	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	164	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	17.48	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	257	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	36.8	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	17.5	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	34.13	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	28.91	IS 3025 (Part 34) : 1988	45.00	-

Note:

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*Bajen*



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Reference : teamtesthouse.com

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Reference (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]	0.31	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]	192	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]	0.12	IS 13428 (Annexure H)	0.5	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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*Purush*  
Purush Mal Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/1301)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/1302  
Job Identification. : 11125/16-117  
Date : 30-03-2017  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhillwara District-Bhillwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 05-03-2017  
Date of Sample Receipt : 14-03-2017  
Date of Test : 14-03-2017 to 30-03-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Kanoli Village (Govt.Handpump water of Govt. Middle school)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.69	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	160	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	13.6	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	253	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	40	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	14.58	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	36.50	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	26.74	IS 3025 (Part 34) : 1988	45.00	-

Note:

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*Rajeev*



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Website : www.teamtesthouse.com

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.38	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	144	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]	0.16	IS 13428 (Annexure H)	0.5	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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*Purush*  
**Purush Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maneshwan**  
Authorized Signatory  
(Report No: W/NABL/1302)



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## TEST REPORT

Report No. : W/NABL/1303  
 Job Identification. : 11126/16-117  
 Date : 30-03-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 06-03-2017  
 Date of Sample Receipt : 14-03-2017  
 Date of Test : 14-03-2017 to 30-03-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Gandhi sagar village (Tubewell water of Gandhi park)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.26	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	540	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	471.1	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1578	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	112	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	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]	261.80	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	33.52	IS 3025 (Part 34) : 1988	45.00	-

Note:

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*Parsa*



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### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Required Limit (Acceptable Limit) as per IS 10500 : 2012	Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.72	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]	450	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	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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*Puranjay*  
**Puranjaya Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwan**  
Authorized Signatory  
(Report No: W/NABL/1303 )



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### TEST REPORT

Report No. : W/NABL/1304  
Job Identification. : 11127/16-117  
Date : 30-03-2017  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 04-03-2017  
Date of Sample Receipt : 14-03-2017  
Date of Test : 14-03-2017 to 30-03-2017  
Sample Collected By : Sandeep Kumar  
Point of Collection : Samodi Village (govt. Handpump Nr. Bheel Basti)

### 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	7.31	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	520	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]	118.5	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	828	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	158.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	30.13	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	152.40	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	40.30	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	Required Concentration (Acceptable Limit) as per IS 10500 : 2012	Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.66	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]	316	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]	0.14	IS 13428 (Annexure H)	0.5	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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

*Rajen*  
**Rajesh Manestiwari**  
Authorized Signatory  
(Report No: W/NABL/1304 )



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## TEST REPORT

Report No. : W/NABL/1298  
 Job Identification : 11121/16-117  
 Date : 30-03-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 07-03-2017  
 Date of Sample Receipt : 14-03-2017  
 Date of Test : 14-03-2017 to 30-03-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Suras Village (Govt. Handpump Near Palki Rani Ka Mandir)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.16	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]	163.18	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	764	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	160	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	38.88	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	87.30	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	35.40	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Ph.: 94602-22039, 94602-22049

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

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.57	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]	292	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.38	IS 13428 (Annexure H)	0.5	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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*Pooja*  
Pooja Mal, Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwan  
Authorized Signatory  
(Report No: W/NABL/1298)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/1296  
Job Identification : 11119/16-17  
Date : 30-03-2017  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 08-03-2017  
Date of Sample Receipt : 14-03-2017  
Date of Test : 14-03-2017 to 30-03-2017  
Sample Collected By : Parsa Ram Kudl  
Point of Collection : Dhukhera village Near NH 79

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.80	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	524	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]	87.42	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	886	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	134.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	45.68	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]	83.90	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	22.41	IS 3025 (Part 34) : 1988	45.00	-

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Website: www.teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirements (Acceptable Limit) as per IS 10500 : 2012	Standards Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.97	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]	156	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]	0.20	IS 13428 (Annexure H)	1.00	5.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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

*Rajesh*  
**Rajesh Manojswan**  
Authorized Signatory  
(Report No: W/NABL/1296)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/1305  
 Job Identification. : 11128/16-117  
 Date : 30-03-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 07-03-2017  
 Date of Sample Receipt : 14-03-2017  
 Date of Test : 14-03-2017 to 30-03-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Meja Dam

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.12	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]	19.43	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	203	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	38.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	6.8	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]	31.52	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	23.2	IS 3025 (Part 34) : 1988	45.00	-

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

### RESULTS

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

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.32	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]	136	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]	0.17	IS 13428 (Annexure H)	0.5	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	6	IS 3025 (part 15) : 1984	-	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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*Puranyo*  
Puran Mal Yogi  
Senior Analyst

*Rajon*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/1305 )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/1306  
 Job Identification. : 11129/16-117  
 Date : 30-03-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 07-03-2017  
 Date of Sample Receipt : 14-03-2017  
 Date of Test : 14-03-2017 to 30-03-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Kothari River

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.39	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	152	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]	46.62	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	275	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	36.8	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	14.58	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	34.32	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	12.42	IS 3025 (Part 34) : 1988	45.00	-

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### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Required (Acceptable Limit) as per IS 10500 : 2012	Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.57	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]	152	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.24	IS 13428 (Annexure H)	0.5	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	11	IS 3025 (part 15) : 1984	-	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

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*Purva Mayyogi*  
Senior Analyst

*Rajen*  
Rajesh Anandeshwar  
Authorized Signatory  
(Report No: W/NABL/1306 )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/1299  
 Job Identification : 11122/16-117  
 Date : 30-03-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 04-03-2017  
 Date of Sample Receipt : 14-03-2017  
 Date of Test : 14-03-2017 to 30-03-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Samodi Pond

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.84	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	140	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	27.2	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	222	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	43.2	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]	29.70	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	22.31	IS 3025 (Part 34) : 1988	45.00	-

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Website : www.teamtesthouse.com

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.25	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]	104	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]	0.16	IS 13428 (Annexure H)	0.5	1.00
24	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
25	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-

Notes :-

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

*Purandhar*  
Purandhar Mal Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/1299)



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## TEST REPORT

Report No. : A/3112  
Job Identification. : 11142/16-17  
Date : 24-03-2017  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 04-03-2017  
Date of Sample Receipt : 15-03-2017  
Date of Test : 15-03-2017 to 24-03-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Tiranga Pit (Mining Face)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m <sup>3</sup> ]	460	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	17.15	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	305.02	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	34.09	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	8.62	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	85.41	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

### Notes :-

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Purnan Mal Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/3112)



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## TEST REPORT

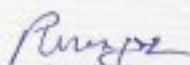
Report No. : A/3115  
Job Identification : 11145/16-17  
Date : 24-03-2017  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 07-03-2017  
Date of Sample Receipt : 15-03-2017  
Date of Test : 15-03-2017 to 24-03-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Samodi village


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m <sup>3</sup> ]	220	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	11.89	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	236.41	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	26.78	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.72	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	64.43	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

### Notes :-

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Puran Mal Yogi  
Senior Analyst

  
Rajesh Manishwan  
Authorized Signatory  
(Report No: A/3115)



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## TEST REPORT

Report No. : A/3113  
 Job Identification : 11143/16-17  
 Date : 24-03-2017  
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Ambient Air Quality Monitoring  
 Date of Sample Collection/Monitoring : 07-03-2017  
 Date of Sample Receipt : 15-03-2017  
 Date of Test : 15-03-2017 to 24-03-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Suras Pit Near Dhaba

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m <sup>3</sup> ]	410	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	16.59	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	337.63	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	30.32	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	8.71	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	82.58	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

### Notes >

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Puran Mal Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/3113)



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## TEST REPORT

Report No. : A/3114  
Job Identification. : 11144/16-17  
Date : 24-03-2017  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 07-03-2017  
Date of Sample Receipt : 15-03-2017  
Date of Test : 15-03-2017 to 24-03-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Dhulkhera Pit

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m <sup>3</sup> ]	390	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.97	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	317.14	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	32.12	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	8.84	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	79.84	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

### Notes :-

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Puran Mal Vogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/3114)



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**TEST REPORT**

Report No: A/3255  
Date: 31/03/2017  
Issued to: M/s Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines  
Araji No.6711,9696/6711, Near Tiranga Hills  
Village : Pur, District Bhilwara 311802 (Rajasthan)  
Mines  
Type of Unit: Ambient Air Quality Monitoring  
Type of Monitoring:  
Date of Sample Collection/ Monitoring: 28/03/2017  
Date of Receipt: 30/03/2017  
Date of Test: 30/03/2017 to 31/03/2017  
Sample Collected By: Parsa Ram Kuri  
Point of Collection: Tiranga Pit (Mining Area)

**RESULTS**

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Carbon Monoxide [microgram/m <sup>3</sup> ]	330	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m <sup>3</sup> ]	17.26	IS 5182 (Part 6) : 2006	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	236.56	IS 5182 (Part 4) : 1999	-
4.	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	33.27	CPCB Guidelines	60.00
5.	Sulphur Dioxide [microgram/m <sup>3</sup> ]	8.34	IS 5182 (Part 2) : 2001	80.00
6.	Particulate Matter (PM10) [microgram/m <sup>3</sup> ]	84.10	IS 5182 (Part 23)	100.00

Notes: -

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Puran Mal Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No A/3255)



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## TEST REPORT

Report No: A/3253  
Date: 31/03/2017  
Issued to: M/s Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines  
Araji No.6711,9696/6711, Near Tiranga Hills  
Village : Pur, District Bhilwara 311802 (Rajasthan)  
Mines  
Type of Unit: Ambient Air Quality Monitoring  
Type of Monitoring:  
Date of Sample Collection/ Monitoring: 27/03/2017  
Date of Receipt: 30/03/2017  
Date of Test: 30/03/2017 to 31/03/2017  
Sample Collected By: Parsa Ram Kuri  
Point of Collection: Village Samodi


### 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> ]	260	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m <sup>3</sup> ]	13.25	IS 5182 (Part 6) : 2006	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	252.30	IS 5182 (Part 4) : 1999	500
4.	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	25.61	CPCB Guidelines	60.00
5.	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.47	IS 5182 (Part 2) : 2001	80.00
6.	Particulate Matter (PM10) [microgram/m <sup>3</sup> ]	63.58	IS 5182 (Part 23)	100.00

#### Notes: -

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Purnan Mal Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No A/3253)



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## TEST REPORT

Report No:	A/3254
Date:	31/03/2017
Issued to	M/s Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.6711,9696/6711, Near Tiranga Hills Village : Pur, District Bhilwara 311802 (Rajasthan) Mines
Type of Unit	Ambient Air Quality Monitoring
Type of Monitoring:	
Date of Sample Collection/ Monitoring:	27/03/2017
Date of Receipt:	30/03/2017
Date of Test:	30/03/2017 to 31/03/2017
Sample Collected By:	Parsa Ram Kuri
Point of Collection	Suras Pit Near Dhaba

### RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Carbon Monoxide [microgram/m <sup>3</sup> ]	310	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m <sup>3</sup> ]	15.12	IS 5182 (Part 6) : 2006	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	312.45	IS 5182 (Part 4) : 1999	500
4.	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	32.61	CPCB Guidelines	60.00
5.	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.82	IS 5182 (Part 2) : 2001	80.00
6.	Particulate Matter (PM10) [microgram/m <sup>3</sup> ]	80.24	IS 5182 (Part 23)	100.00

**Notes: -**

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*Purva*  
**Purva**  
Senior Analyst

*Raja*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No A/3254)



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### TEST REPORT

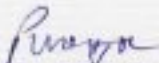
Report No: A/3252  
Date: 31/03/2017  
Issued to: M/s Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines  
Araji No.6711,9696/6711, Near Tiranga Hills  
Village : Pur, District Bhilwara 311802 (Rajasthan)  
Mines  
Type of Unit: Ambient Air Quality Monitoring  
Type of Monitoring:  
Date of Sample Collection/ Monitoring: 27/03/2017  
Date of Receipt: 30/03/2017  
Date of Test: 30/03/2017 to 31/03/2017  
Sample Collected By: Parsa Ram Kuri  
Point of Collection: Dhulkhera Pit


### RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Carbon Monoxide [microgram/m <sup>3</sup> ]	340	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m <sup>3</sup> ]	16.52	IS 5182 (Part 6) : 2006	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	326.50	IS 5182 (Part 4) : 1999	-
4.	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	34.12	CPCB Guidelines	60.00
5.	Sulphur Dioxide [microgram/m <sup>3</sup> ]	8.12	IS 5182 (Part 2) : 2001	80.00
6.	Particulate Matter (PM10) [microgram/m <sup>3</sup> ]	86.47	IS 5182 (Part 23)	100.00

#### Notes: -

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Puran Mal Yogi  
Senior Analyst

  
Rajesh Maheshwar  
Authorized Signatory  
(Report No A/3252)



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## TEST REPORT

N/1392

Date	25/03/2017
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	10/03/2017 to 11/03/2017
Date of Sample Receipt	15/03/2017
Date of Test	15/03/2017
Sample Collected by	Parsa Ram Kudi
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)	67.4	58.3
2.	Dhulkhera mines Area (10.0 m of loading Point)	68.5	57.8
3.	Suras Mines Area (10.0 m of loading Point)	70.3	61.2
4.	Tiranga Mines Area (10.0 m of loading Point)	70.6	62.0
5.	Nr. Tata Blue Scope Shed	66.4	57.2
6.	Nr. Crusher (CCR Building)	71.6	58.6
7.	Filter Fresh Building	69.3	60.4
8.	Nr. BFN CCR Building	68.4	61.2

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

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

### Note: -

- The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

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

*Rajesh*  
**Rajesh Maheshwan**  
Authorized Signatory  
(Report No.: - N/1392)



# TEAM TEST HOUSE

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

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

NABL

RSPCB

ISO 9001:2008

OHSAS 18001:2007

JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur-302001  
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Website : www.teamtesthouse.com  
Date Issued to

## TEST REPORT

N/1391

25/03/2017

M/s. Jindal Saw Limited

Dhedwas Iron Ore Copper & Associated Minerals

Mines, Araji no. 9697/6711 Near Tiranga Hills

Village - Pur Tehsil & District - Bhilwara - 311802  
(Rajasthan)

Mines

08/03/2017 to 11/03/2017

15/03/2017

15/03/2017

Parsa Ram Kudi

Ambient Noise Monitoring

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

Type of Unit

Date of Monitoring

Date of Sample Receipt

Date of Test

Sample Collected by

Type of Monitoring

## RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Pur Village	Rural Area	52.6	43.1
2.	Samodi Village (Near Balaji Temple)	Rural Area	48.2	38.4
3.	Suras Village	Rural Area	51.4	40.2
4.	Gandhi Sagar park, Bhilwara	Rural Area	49.6	40.5
5.	Kanoli Village	Rural Area	47.3	37.6
6.	Dhulkhera Village	Rural Area	52.7	42.7
7.	Dariba Village	Rural Area	50.2	40.5

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

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

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Puran Ma Yogi  
Senior Analyst

Rajesh Kumar Swarni  
Authorized Signatory  
(Report No.: - N/1391)