



# 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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JDA/UDH

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## TEST REPORT

Report No. : A/5380  
Job Identification. : 11370  
Date : 28-03-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 11-03-2016  
Date of Sample Receipt : 15-03-2016  
Date of Test : 15-03-2016 to 28-03-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Village Devpura Shri Narayan Lal Gurjar

## 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> ]	190	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	11.92	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	208.97	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	23.93	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.43	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	60.6	IS 5182 (Part 23)	100.00

### Notes :-

- # 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 Maurya  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/5380)



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## TEST REPORT

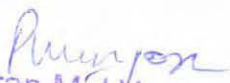
Report No. : A/5379  
Job Identification. : 11369  
Date : 28-03-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 11-03-2016  
Date of Sample Receipt : 15-03-2016  
Date of Test : 15-03-2016 to 28-03-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Village Kamalpura (Shri Bhaaver lal Gurjar Purv Sarpanch 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> ]	240	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.15	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	244.95	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	27.06	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.48	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	68.21	IS 5182 (Part 23)	100.00

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Puran M. S. Yogi  
Senior Analyst

  
Rajesh Mahechwan  
Authorized Signatory  
(Report No: A/5379)



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E-mail : director@teamtesthouse.com

**TEST REPORT**

Report No. : A/5378  
Job Identification. : 11368  
Date : 28-03-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 10-03-2016  
Date of Sample Receipt : 15-03-2016  
Date of Test : 15-03-2016 to 28-03-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Village Lampiya (Nr Mining Area in front of Lakshman Singh Farm House)

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	230	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.69	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	265.65	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	28.6	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.36	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	69.92	IS 5182 (Part 23)	100.00

Notes :-

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*Puran*  
Puran M. Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/5378)



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## TEST REPORT

Report No. : A/5381  
Job Identification. : 11371  
Date : 28-03-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 12-03-2016  
Date of Sample Receipt : 15-03-2016  
Date of Test : 15-03-2016 to 28-03-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Village Jaliya (Ramji Lal House)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	260	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.86	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	282.59	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	29.65	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	5.71	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	70.59	IS 5182 (Part 23)	100.00

### Notes :-

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Puran Mal Yodi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/5381)



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## TEST REPORT

Report No. : A/5377  
Job Identification. : 11367  
Date : 28-03-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 12-03-2016  
Date of Sample Receipt : 15-03-2016  
Date of Test : 15-03-2016 to 28-03-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Village Chamanpura

## 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> ]	210	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.74	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	260.25	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	32.13	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.13	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10).[microgram/m <sup>3</sup> ]	60.62	IS 5182 (Part 23)	100.00

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Puran Mal Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/5377)



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## TEST REPORT

Report No. : A/5376  
Job Identification. : 11366  
Date : 28-03-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 10-03-2016  
Date of Sample Receipt : 15-03-2016  
Date of Test : 15-03-2016 to 28-03-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Village Banera (Laaturam 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> ]	210	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	15.11	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	284.14	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	22.9	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.2	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	58.1	IS 5182 (Part 23)	100.00

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Puran Maurya  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/5376)



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

## TEST REPORT

Report No. : A/58  
Job Identification. : 12024  
Date : 05-04-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 30-03-2016  
Date of Sample Receipt : 31-03-2016  
Date of Test : 31-03-2016 to 05-04-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Village Lampiya (Nr Mining Area in front of Lakshman Singh Farm House)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	220	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m3]	14.34	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	233.78	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m3]	29.24	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.45	IS 5182 (Part 2) : 2001	80.00
	Particulate Matter (PM 10) [microgram/m3]	57.67	IS 5182 (Part 23)	100.00

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Puran Majhi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/58)



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## TEST REPORT

Report No. : A/57  
Job Identification. : 12023  
Date : 05-04-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 30-03-2016  
Date of Sample Receipt : 31-03-2016  
Date of Test : 31-03-2016 to 05-04-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Village Jaliya (Ramji 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> ]	180	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	15.76	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	208.49	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	25.54	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.92	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	69.46	IS 5182 (Part 23)	100.00

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Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/57)



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## TEST REPORT

Report No. : A/56  
Job Identification. : 12022  
Date : 05-04-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 30-03-2016  
Date of Sample Receipt : 31-03-2016  
Date of Test : 31-03-2016 to 05-04-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Village Devpura Shri Narayan Lal Gurjar

## 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> ]	170	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.78	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	269.85	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	23.65	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.11	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	65.42	IS 5182 (Part 23)	100.00

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Puran Mai Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/56)



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## TEST REPORT

Report No. : A/55  
Job Identification. : 12021  
Date : 05-04-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 30-03-2016  
Date of Sample Receipt : 31-03-2016  
Date of Test : 31-03-2016 to 05-04-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Village Kamalpura (Shri Bhaver Lal Gurjar Purv Sarpanch 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> ]	190	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.56	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	254.48	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	24.88	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.67	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	72.97	IS 5182 (Part 23)	100.00

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*Purander*  
Purander Mal Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/55)



# TEAM TEST HOUSE

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T-1763, T-2276

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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/65  
Job Identification. : 11384  
Date : 02-04-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
Address : ML No.627/05 Village-Lampiya, Tehsil Banera  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 12-03-2016  
Date of Sample Receipt : 15-03-2016  
Date of Test : 15-03-2016 to 02-04-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Jaliya 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	7.37	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]	0.09	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	241.06	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1206	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	192	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	24.3	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	78.3	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	41.53	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page...

*Ray*



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Ph.: 94602-22039, 94602-22049

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.66	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]	0.01	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	0.63	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	380	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	0.05	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.85	IS 13428 (Annexure H)	0.5	1.00
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	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	Phenolic Compound [mg/l]	BDL (<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
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)	0.2	1.00

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*Ranjana*  
Ranjana J. Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheeshwar  
Authorized Signatory  
(Report No: W/NABL/65)



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

## TEST REPORT

Report No. : W/65  
Job Identification. : 11384  
Date : 11-04-2016  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 12-03-2016  
Date of Sample Receipt : 15-03-2016  
Date of Test : 15-03-2016 to 02-04-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : jaliya 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	Calcium Hardness [mg/l]	500	IS 3025 (Part 40) : 1991	-	-
3	Pesticides [mg/l]	Not detected	APHA : 2012	-	-

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Purnan Mar Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/65)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/28  
Job Identification. : 11386  
Date : 02-04-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
Address : ML No.627/05 Village-Lampiya, Tehsil Banera  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 12-03-2016  
Date of Sample Receipt : 15-03-2016  
Date of Test : 15-03-2016 to 02-04-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Kamalpura 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	7.93	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]	188.99	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1335	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	128	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	60.75	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	223.33	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	36.5	IS 3025 (Part 34) : 1988	45.00	-

Note:

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*Rajan*



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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]	0.82	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]	0.01	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	0.05	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	360	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	0.19	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.52	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	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	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	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*  
Puran Maurya  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/28 )



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E-mail : director@teamtesthouse.com

## TEST REPORT

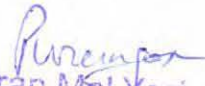
Report No. : W/28  
Job Identification. : 11386  
Date : 02-04-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
Address : ML No.627/05 Village-Lampiya, Tehsil Banera  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 12-03-2016  
Date of Sample Receipt : 15-03-2016  
Date of Test : 15-03-2016 to 02-04-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Kamalpura 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	Calcium Hardness [mg/l]	320	IS 3025 (Part 40) : 1991	-	-
3	Pesticides [mg/l]	Not detected	APHA : 2012	-	-

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Puran MSL Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/28)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. :	WNABL/69
Job Identification. :	11291
Date :	02-04-2016
Issued To :	M/S Jindal Saw Limited (Lampiya Mines)
Address :	ML No.627/05 Village-Lampiya, Tehsil Banera District-Bhilwara 311802 (Rajasthan)
Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water
Date of Sample Collection/Monitoring :	10-03-2016
Date of Sample Receipt :	15-03-2016
Date of Test :	15-03-2016 to 02-04-2016
Sample Collected By :	Darwesh Kumar
Point of Collection :	Lampiya 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	7.03	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	352	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]	31.82	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	493	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	107.20	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]	59.70	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	16.76	IS 3025 (Part 34) : 1988	45.00	-

Note:

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*Bajra*



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Ph.: 94602-22039, 94602-22049

Website: www.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]	0.33	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	0.001	IS 3025 (Part 41) : 1992	-	-
18	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988	-	-
19	Lead [mg/l]	0.01	IS 3025 (Part 47) : 1994	-	-
20	Zinc [mg/l]	0.46	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	324	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL (<0.01)	IS 3025 (Part 55) : 2003	-	-
23	Boron [mg/l]	0.32	IS 13428 (Annexure H)	1.00	5.00
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	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	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	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 Mat Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/69 )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/69  
Job Identification. : 11291  
Date : 11-04-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
Address : ML No.627/05 Village-Lampiya, Tehsil Banera  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 10-03-2016  
Date of Sample Receipt : 12-03-2016  
Date of Test : 12-03-2016 to 02-04-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Lampiya 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	Calcium Hardness [mg/l]	268	IS 3025 (Part 40) : 1991	-	-
3	Pesticides [mg/l]	Not detected	APHA : 2012	-	-

### Notes :-

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

  
Purnima Maheshwari  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/69)



# TEAM TEST HOUSE

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



T-1763, T-2276

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Phone : 0141-2369980, 2771865  
Website : www.teamtesthouse.com

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

## TEST REPORT

Report No. : W/NABL/27  
Job Identification : 11387  
Date : 02-04-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
Address : ML No.627/05 Village-Lampiya, Tehsil Banera  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 12-03-2016  
Date of Sample Receipt : 15-03-2016  
Date of Test : 15-03-2016 to 02-04-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Devpura 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	7.30	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]	188.99	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1180	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]	48.6	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	51.70	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	37.18	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Ph.: 94602-22039, 94602-22049

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	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	0.05
19	Lead [mg/l]	0.01	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	0.54	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]	0.29	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	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	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	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/27 )



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

## TEST REPORT

Report No. : W/27  
Job Identification. : 11387  
Date : 02-04-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
Address : ML No.627/05 Village-Lampiya, Tehsil Banera  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 11-03-2016  
Date of Sample Receipt : 15-03-2016  
Date of Test : 15-03-2016 to 02-04-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Devpura 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	Calcium Hardness [mg/l]	400	IS 3025 (Part 40) : 1991	-	-
3	Pesticides [mg/l]	Not detected	APHA : 2012	-	-

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*Puran Matyogi*  
Puran Matyogi  
Senior Analyst

*Rajesh Maheshwari*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/27)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/68  
 Job Identification. : 11290  
 Date : 11-04-2016  
 Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
 Address : ML No.627/05 Village-Lampiya, Tehsil Banera  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 10-03-2016  
 Date of Sample Receipt : 12-03-2016  
 Date of Test : 12-03-2016 to 02-04-2016  
 Sample Collected By : Darwesh Kumar  
 Point of Collection : Banera 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	7.73	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	560	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.05	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	185.13	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	875	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]	63.18	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	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]	52.50	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	27.34	IS 3025 (Part 34) : 1988	45.00	-

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Ph.: 94602-22039, 94602-22049

Website: www.teamtesthouse.com

## RESULTS

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

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.59	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	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]	0.01	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	0.18	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	380	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]	0.75	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	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	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	Anionic Surface Detergents as MBA's [mg/l]	BDL (<0.1)	IS 13428 (Annexure K)	0.2	1.00

Notes :-

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*Purushottam*  
Purushottam Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/68 )



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E-mail : director@teamtesthouse.com

## TEST REPORT

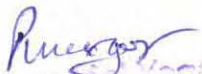
Report No. : W/68  
Job Identification. : 11290  
Date : 11-04-2016  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
Address : ML No.627/05 Village-Lampiya, Tehsil Banera  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 10-03-2016  
Date of Sample Receipt : 12-03-2016  
Date of Test : 12-03-2016 to 02-04-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Banera 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	Calcium Hardness [mg/l]	300	IS 3025 (Part 40) : 1991	-	-
3	Pesticides [mg/l]	Not detected	APHA : 2012	-	-

### Notes :-

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Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/68)



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

## TEST REPORT

Report No. : W/NABL/26  
 Job Identification : 11388  
 Date : 02-04-2016  
 Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
 Address : ML No.627/05 Village-Lampiya, Tehsil Banera  
 District-Bhilwara 311802 (Rajasthan)  
 Type of Unit : Mines  
 Type of Sample : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 12-03-2016  
 Date of Sample Receipt : 15-03-2016  
 Date of Test : 15-03-2016 to 02-04-2016  
 Sample Collected By : Darwesh Kumar  
 Point of Collection : Mandal 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]	0.30	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.59	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]	0.27	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	57.85	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	356	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	44	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]	0.11	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	22.50	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	20.28	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Ph.: 94602-22039, 94602-22049

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.10	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]	0.01	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	0.15	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	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]	0.26	IS 13428 (Annexure H)	0.2	5.00
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	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	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	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 Mianeshwari*  
Rajesh Mianeshwari  
Authorized Signatory  
(Report No: W/NABL/26 )



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

## TEST REPORT

Report No. : W/26  
Job Identification : 11388  
Date : 02-04-2016  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 12-03-2016  
Date of Sample Receipt : 15-03-2016  
Date of Test : 15-03-2016 to 02-04-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Mandal 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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL (<0.0001)	APHA 2012 : 6440 B	0.0001	-
2	Calcium Hardness [mg/l]	110	IS 3025 (Part 40) : 1991	-	-
3	Pesticides [mg/l]	Not detected	APHA : 2012	-	-

### Notes :-

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

  
Puran Mal Yogi  
Senior Analyst

  
Rajesh Mangeshwari  
Authorized Signatory  
(Report No: W/26)



# TEAM TEST HOUSE

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



T-1763, T-2276

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

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**JDA/UDH**

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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. :	W/NABL/80
Job Identification. :	11287
Date :	02-04-2016
Issued To :	M/S Jindal Saw Limited (Lampiya Mines)
Address :	ML No.627/05 Village-Lampiya, Tehsil Banera District-Bhilwara 311802 (Rajasthan)
Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water
Date of Sample Collection/Monitoring :	10-03-2016
Date of Sample Receipt :	12-03-2016
Date of Test :	12-03-2016 to 02-04-2016
Sample Collected By :	Darwesh Kumar
Point of Collection :	Mahua Khurd

## 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	6.85	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]	0.02	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	106.07	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	740	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]	46.17	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	0.02	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]	23.83	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	36.60	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page...

*Raj*



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Ph : 94602-22039, 94602-22049

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Permissible Limit) as per IS 10500 : 2012	Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.26	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	0.002	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]	0.01	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	3.86	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	480	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	0.17	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.56	IS 13428 (Annexure H)	0.5	1.00
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	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	Phenolic Compound [mg/l]	BDL (<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
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)	0.2	1.00

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Puran Mal Yogi  
Senior Analyst

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



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## TEST REPORT

Report No. : W/80  
Job Identification. : 11287  
Date : 16-04-2016  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 10-03-2016  
Date of Sample Receipt : 12-03-2016  
Date of Test : 12-03-2016 to 02-04-2016  
Sample Collected By : Darwesh Kumar  
Point of Collection : Mahua Khurd

## 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	Calcium Hardness [mg/l]	410	IS 3025 (Part 40) : 1991	-	-
3	Pesticides [mg/l]	Not detected	APHA : 2012	-	-

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Purnima Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/80)



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## TEST REPORT

Report No A/5382  
Date 28/03/2016  
Issued to M/s. Jindal Saw Limited (Lampiya Mines)  
M L No. 627/05, Village – Lampiya, Tehsil- Banera,  
District – Bhilwara – 311802 (Rajasthan)  
Type of Unit Mines  
Date of Monitoring 10/03/2016 to 13/03/2016  
Date of Sample Receipt 15/03/2016  
Date of Test 15/03/2016  
Sample Collected by Darwesh Kumar  
Type of Monitoring Ambient Noise Monitoring

## RESULTS

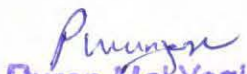
Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Lampiya Village	Rural Area	52.3	42.7
2.	Jaliya Village	Rural Area	53.0	41.2
3.	Devapura Village	Rural Area	52.3	40.2
4.	Kamalपुरa Village	Rural Area	51.9	39.1
5.	Baneda Village	Rural Area	50.4	41.9
6.	Chamanपुरa Village	Rural Area	52.7	40.6


### 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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Senior Analyst

  
Rajesh Maheshwari  
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(Report No.: - A/5382)