



# 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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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. : A/2272  
Job Identification. : 8031/16-17  
Date : 31-12-2016  
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 : 06-12-2016  
Date of Sample Receipt : 10-12-2016  
Date of Test : 10-12-2016 to 30-12-2016  
Sample Collected By : Sandeep 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> ]	11.68	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	168.29	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	22.7	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	5.96	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	53.73	IS 5182 (Part 23)	100.00

### Notes :-

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*Puran*  
Puran Maheshwari  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/2272)



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E-mail : director@teamtesthouse.com

**TEST REPORT**

Job Identification : 8029/16-17  
Date : 30-12-2017  
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 : 07-12-2016  
Date of Sample Receipt : 10-12-2016  
Date of Test : 10-12-2016 to 30-12-2016  
Sample Collected By : Sandeep Kumar  
Point of Collection : Village Chimanpura

**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> ]	12.68	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	187.24	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	24.37	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.12	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	57.61	IS 5182 (Part 23)	100.00

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**Puran Mal Yogi**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: A/2270)



# TEAM TEST HOUSE

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T-1763, T-2276

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E-mail : director@teamtesthouse.com

### TEST REPORT

Report No. : W/NABL/969  
Job Identification : 7957/16-17  
Date : 18-01-2017  
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 : 05-12-2016  
Date of Sample Receipt : 07-12-2016  
Date of Test : 07-12-2016 to 18-01-2017  
Sample Collected By : Parsa Ram Kudi  
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	7.17	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	448	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]	82.78	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	674	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	147.2	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	19.44	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	71.55	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	37.01	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	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]	0.31	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	-
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]	304	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.44	IS 13428 (Annexure H)	0.5	1.00
24	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	Calcium Hardness [mg/l]	368	IS 3025 (Part 40) : 1991	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

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

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: W/NABL/969 )



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## TEST REPORT

Report No. : W/969  
Job Identification. : 7957/16-17  
Date : 18-01-2017  
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 : 05-12-2016  
Date of Sample Receipt : 07-12-2016  
Date of Test : 07-12-2016 to 18-01-2017  
Sample Collected By : Parsa Ram Kudi  
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	Pesticides [mg/l]	Not detected	APHA : 2012	-	-

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Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/969)



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## TEST REPORT

Report No. : W/NABL/970  
 Job Identification. : 8042/16-17  
 Date : 18-01-2017  
 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 : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 07-12-2016  
 Date of Sample Receipt : 10-12-2016  
 Date of Test : 10-12-2016 to 17-01-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Village Devpura (Govt. Hand Pump, School Devpura)

## 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	7.44	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	276	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]	31.54	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	442	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	65.6	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	27.22	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]	18.97	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	31.16	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Raj



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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.40	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	268	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.44	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	Suspended Solids [mg/l]	2	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	164	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

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**Puran Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: W/NABL/970 )



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District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 07-12-2016  
Date of Sample Receipt : 10-12-2016  
Date of Test : 10-12-2016 to 17-01-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Village Devpura (Govt. Hand Pump, School Devpura)

**RESULTS**

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

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Senior Analyst

  
**Rajesh Maheehwari**  
Authorized Signatory  
(Report No: W/970)



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### TEST REPORT

Report No. :	W/NABL/971
Job Identification. :	8043/16-17
Date :	18-01-2017
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 :	Potable and Domestic Water
Date of Sample Collection/Monitoring :	07-12-2016
Date of Sample Receipt :	10-12-2016
Date of Test :	10-12-2016 to 17-01-2017
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Village Kamlpura (Govt. Supply)

### 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	7.49	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	360	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]	86.72	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	837	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	56	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	53.46	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	32.41	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	38.60	IS 3025 (Part 34) : 1988	45.00	-

Note:

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*Signature*



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E-mail : teamtesthouse@gmail.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]	1.03	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	356	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.36	IS 13428 (Annexure H)	0.5	1.00
24	E-coli [MPN/100ml]	Not detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	7	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	140	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

Notes :-

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*Puraj*  
**Puran Mar Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: W/NABL/971 )



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E-mail : director@teamtesthouse.com

**TEST REPORT**

Report No. : W/971  
Job Identification. : 8043/16-17  
Date : 18-01-2017  
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 : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 07-12-2016  
Date of Sample Receipt : 10-12-2016  
Date of Test : 10-12-2016 to 17-01-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Village Kamlpura (Govt. Supply)

**RESULTS**

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

Notes :-

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**Puran Mai Yogi**  
Senior Analyst

  
**Rajesh Maheshwan**  
Authorized Signatory  
(Report No: W/971)



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E-mail : director@teamtesthouse.com

### TEST REPORT

Report No. : W/NABL/972  
Job Identification. : 8044/16-17  
Date : 18-01-2017  
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 : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 09-12-2016  
Date of Sample Receipt : 10-12-2016  
Date of Test : 10-12-2016 to 18-01-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Village Jaliya (Water Storage tank)

### 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]	316	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]	120.23	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	562	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	76.8	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	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]	88.75	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	34.50	IS 3025 (Part 34) : 1988	45.00	-

Note:

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E-mail : teamtesthouse@gmail.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]	0.68	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(<0.0001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	312	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.45	IS 13428 (Annexure H)	0.5	1.00
24	E-coli [MPN/100ml]	Not detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	7	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	192	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

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Puran Mai Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/972)



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## TEST REPORT

Report No. :	W/972
Job Identification. :	8044/16-17
Date :	18-01-2017
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 :	Potable and Domestic Water
Date of Sample Collection/Monitoring :	09-12-2016
Date of Sample Receipt :	10-12-2016
Date of Test :	10-12-2016 to 18-01-2017
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Village Jaliya (Water Storage tank)

## RESULTS

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

Notes :-

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*Puran*  
Puran Mal Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/972)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/967  
 Job Identification : 7953/16-17  
 Date : 18-01-2017  
 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 : 05-12-2016  
 Date of Sample Receipt : 07-12-2016  
 Date of Test : 07-12-2016 to 18-01-2017  
 Sample Collected By : Parsa Ram Kudi  
 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	7.86	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	412	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]	100.52	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	812	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	83.2	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]	77.58	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	32.24	IS 3025 (Part 34) : 1988	45.00	-

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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	1.42	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	458	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.46	IS 13428 (Annexure H)	0.5	1.00
24	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	Calcium Hardness [mg/l]	208	IS 3025 (Part 40) : 1991	-	-
34	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 Mareshwari**  
Authorized Signatory  
(Report No: W/NABL/967)



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## TEST REPORT

Report No. : W/967  
Job Identification. : 7953/16-17  
Date : 18-01-2017  
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 : 05-12-2016  
Date of Sample Receipt : 07-12-2016  
Date of Test : 07-12-2016 to 18-01-2017  
Sample Collected By : Parsa Ram Kudi  
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	Pesticides [mg/l]	Not detected	APHA : 2012	-	-

### Notes :-

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Purnan Mal Vagi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/967)



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### TEST REPORT

Report No. : W/NABL/968  
Job Identification. : 7955/16-17  
Date : 18-01-2017  
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 : 05-12-2016  
Date of Sample Receipt : 07-12-2016  
Date of Test : 07-12-2016 to 18-01-2017  
Sample Collected By : Parsa Ram Kudi  
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	7.84	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	496	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]	35.48	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	720	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	97.6	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	61.24	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	82.76	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	41.76	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page...

*Raj*



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Website : www.teamtesthouse.com

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

### 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]	0.21	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	444	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.46	IS 13428 (Annexure H)	0.5	1.00
24	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(<0.1)	IS 3025 (Part 27) : 1986	0.05	-
33	Calcium Hardness [mg/l]	244	IS 3025 (Part 40) : 1991	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

Notes :-

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*Puranga*  
Puranga Malvani  
Senior Analyst

*Rajesh*  
Rajesh Maneshwan  
Authorized Signatory  
(Report No: W/NABL/968 )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/968  
Job Identification. : 7955/16-17  
Date : 18-01-2017  
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 : 05-12-2016  
Date of Sample Receipt : 07-12-2016  
Date of Test : 07-12-2016 to 18-01-2017  
Sample Collected By : Parsa Ram Kudi  
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	Pesticides [mg/l]	Not detected	APHA : 2012	-	-

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Purvi Malvogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/968)



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

### TEST REPORT

Report No. :	W/NABL/974
Job Identification. :	8049/16-17
Date :	18-01-2017
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 :	Potable and Domestic Water
Date of Sample Collection/Monitoring :	09-12-2016
Date of Sample Receipt :	10-12-2016
Date of Test :	10-12-2016 to 18-01-2017
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Jaliya Canal Water (Surface Water)

### 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	7.88	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	92	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]	17.74	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	159	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	32	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	2.92	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]	5.17	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	BDL(<1.0)	IS 3025 (Part 34) : 1988	45.00	-

Note:

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E-mail : [teamtesthouse@gmail.com](mailto:teamtesthouse@gmail.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]	0.21	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	102	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.48	IS 13428 (Annexure H)	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	Suspended Solids [mg/l]	5	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.5)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	80	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

Notes :-

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Purnan Mal Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/974 )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. :	W/974
Job Identification. :	8049/16-17
Date :	18-01-2017
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 :	Potable and Domestic Water
Date of Sample Collection/Monitoring :	09-12-2016
Date of Sample Receipt :	10-12-2016
Date of Test :	10-12-2016 to 18-01-2017
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Jaliya Canal Water (Surface Water)

## RESULTS

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

Notes :-

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*Purva*  
Purva Mani Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/974)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/973  
 Job Identification. : 8048/16-17  
 Date : 18-01-2017  
 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 : Potable and Domestic Water  
 Date of Sample Collection/Monitoring : 07-12-2016  
 Date of Sample Receipt : 10-12-2016  
 Date of Test : 10-12-2016 to 18-01-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Mandal Pond (Surface Water)

## 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	7.36	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	232	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]	108.41	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	541	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	51.2	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	25.27	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	43.79	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	31.80	IS 3025 (Part 34) : 1988	45.00	-

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### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.47	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	200	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.39	IS 13428 (Annexure H)	0.5	1.00
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	10	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	128	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

Notes :-

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*Purandhar*  
Purandhar Meher Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/973)



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## TEST REPORT

Report No. :	W/973
Job Identification. :	8048/16-17
Date :	18-01-2017
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 :	Potable and Domestic Water
Date of Sample Collection/Monitoring :	07-12-2016
Date of Sample Receipt :	10-12-2016
Date of Test :	10-12-2016 to 18-01-2017
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Mandal Pond (Surface Water)

## RESULTS

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

Notes :-

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*Purush*  
**Purush Mat Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: W/973)



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## TEST REPORT

Report No. : A/2273  
Job Identification. : 8032/16-17  
Date : 31-12-2016  
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 : 06-12-2016  
Date of Sample Receipt : 10-12-2016  
Date of Test : 10-12-2016 to 31-12-2016  
Sample Collected By : Satyendra Kumar Sharma  
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]	12.37	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	199.76	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	19.86	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.01	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	56.31	IS 5182 (Part 23)	100.00

### Notes :-

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

  
Puran Maurya  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/2273)



# TEAM TEST HOUSE

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## TEST REPORT

Report No. : A/2275  
Job Identification. : 8034/16-17  
Date : 31-12-2016  
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 : 07-12-2016  
Date of Sample Receipt : 10-12-2016  
Date of Test : 10-12-2016 to 31-12-2016  
Sample Collected By : Satyendra Kumar Sharma  
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> ]	220	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	10.07	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	164.89	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	24.22	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	5.48	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	64.24	IS 5182 (Part 23)	100.00

### Notes :-

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*Purayya*  
Puran Mal Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/2275)



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## TEST REPORT

Report No. : A/2274  
Job Identification. : 8033/16-17  
Date : 31-12-2016  
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 : 06-12-2016  
Date of Sample Receipt : 10-12-2016  
Date of Test : 10-12-2016 to 31-12-2016  
Sample Collected By : Satyendra Kumar Sharma  
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/m3]	190	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m3]	12.82	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	205.54	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m3]	24.53	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.27	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	61.07	IS 5182 (Part 23)	100.00

### Notes :-

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Purnan Mal Yodi  
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Rajesh Maheshwari  
Authorized Signatory  
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## TEST REPORT

Report No. : A/2271  
Job Identification. : 8030/16-17  
Date : 30-12-2017  
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 : 07-12-2016  
Date of Sample Receipt : 10-12-2016  
Date of Test : 10-12-2016 to 30-12-2016  
Sample Collected By : Satyendra Kumar  
Point of Collection : Village Kamalpura

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	170	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	10.28	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	164.73	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	21.80	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	5.78	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	55.74	IS 5182 (Part 23)	100.00

### Notes :-

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Puran Mal Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/2271)



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## TEST REPORT

Report No. : A/2383  
Job Identification. : 8998/16-17  
Date : 18-01-2017  
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 : 28-12-2016  
Date of Sample Receipt : 03-01-2017  
Date of Test : 03-01-2017 to 18-01-2017  
Sample Collected By : Satyendra Kumar Sharma  
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/m <sup>3</sup> ]	240	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.66	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	206.54	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	25.43	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	5.74	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	69.84	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

### Notes :-

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Puran Mal Yogi  
Senior Analyst

  
Rajesh Maneshwari  
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## TEST REPORT

Report No. : A/2384  
Job Identification. : 8999/16-17  
Date : 18-01-2017  
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 : 29-12-2016  
Date of Sample Receipt : 03-01-2017  
Date of Test : 03-01-2017 to 18-01-2017  
Sample Collected By : Satyendra Kumar Sharma  
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]	200	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.2	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	258.37	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	25.2	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.93	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	63.73	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

### Notes :-

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Purnima Yogi  
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Rajesh Maheshwari  
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## TEST REPORT

Report No. : A/2385  
Job Identification. : 9000/16-17  
Date : 18-01-2017  
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 : 29-12-2016  
Date of Sample Receipt : 03-01-2017  
Date of Test : 03-01-2017 to 18-01-2017  
Sample Collected By : Satyendra Kumar Sharma  
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> ]	220	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	11.59	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	222.47	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	28.29	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	4.5	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	63.21	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

### Notes :-

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*Puran*  
Puran Mal Yogi  
Senior Analyst

*Raj*  
Rajesh Maheshwari  
Authorized Signatory  
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## TEST REPORT

Report No. : A/2382  
Job Identification. : 8997/16-17  
Date : 18-01-2017  
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 : 28-12-2016  
Date of Sample Receipt : 03-01-2017  
Date of Test : 03-01-2017 to 18-01-2017  
Sample Collected By : Satyendra Kumar Sharma  
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/m3]	210	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m3]	13.21	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	231.38	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m3]	29.09	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.93	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	71.01	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

### Notes :-

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Puran Mal Yogi  
Senior Analyst

  
Rajesh Maheshwari  
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(Report No: A/2382)



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## TEST REPORT

Report No N/1059  
Date 30/12/2016  
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 06/12/2016 to 07/12/2016  
Date of Sample Receipt 10/12/2016  
Date of Test 10/12/2016  
Sample Collected by Satyendra Kumar  
Type of Monitoring Ambient Noise Monitoring

## RESULTS

Sr. No.	Point Of Monitoring	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Lampiya Village	52.4	41.8
2.	Jaliya Village	49.5	38.6
3.	Devpura Village	48.3	37.5
4.	Kamalpur Village	50.7	39.4
5.	Baneda Village	51.2	40.6
6.	Chamanpura Village	49.3	38.4

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

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

### Note: -

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

*Puran Mal Yogi*  
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Senior Analyst

*Rajesh Maheshwari*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No.: - N/1059)