



# TEAM TEST HOUSE

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

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

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

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## TEST REPORT

Report No. : A/3370  
Job Identification. : 10729/17-18  
Date : 07-04-2018  
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 : 19-03-2018  
Date of Sample Receipt : 24-03-2018  
Date of Test : 24-03-2018 to 31-03-2018  
Sample Collected By : Parsa Ram Kudi  
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	Ammonia [microgram/m3]	BDL(<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	240	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	BDL(<0.1)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	10.78	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	205.89	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	26.7	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.48	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	71.26	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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 Mal Yogi  
Senior Analyst

Rajesh Mishra  
Authorized Signatory  
(Report No: A/3370)



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E-mail : director@teamtesthouse.com

## TEST REPORT

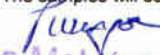
Report No. : A/3371  
Job Identification. : 10730/17-18  
Date : 07-04-2018  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No.627/05, Village- Lampiya, Tehsil- Banera  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 20-03-2018  
Date of Sample Receipt : 24-03-2018  
Date of Test : 24-03-2018 to 31-03-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Mahua Khurd Village

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	230	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m <sup>3</sup> ]	BDL(<0.1)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	11.99	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL (<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	235.65	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	28.72	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	4.12	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	69.15	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal Yogi  
Senior Analyst

  
Rajesh Maheshwan  
Authorized Signatory

(Report No: A/3371)



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## TEST REPORT

Report No. : A/3369  
Job Identification. : 10728/17-18  
Date : 07-04-2018  
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 : 21-03-2018  
Date of Sample Receipt : 24-03-2018  
Date of Test : 24-03-2018 to 31-03-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Village Chamanpura

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	220	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	BDL(<0.1)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	11.44	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	250.76	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	24.26	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	4.91	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	72.42	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran Mal Vogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/3369)



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## TEST REPORT

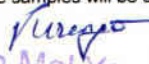
Report No. : A/3372  
Job Identification : 10731/17-18  
Date : 07-04-2018  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No.627/05, Village- Lampiya, Tehsil- Banera  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 20-03-2018  
Date of Sample Receipt : 24-03-2018  
Date of Test : 24-03-2018 to 31-03-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Mandal Village

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	210	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m <sup>3</sup> ]	BDL(<0.1)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.17	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL (<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	221.24	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	27.31	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	5.49	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	59.07	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal Yogi  
Senior Analyst

  
Rajesh Maheshwan  
Authorized Signatory  
(Report No: A/3372)



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TC-5025

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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/47  
Job Identification : 10628/17-18  
Date : 03-04-2018  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Mines  
Type of Unit : Potable and Domestic Water  
Type of Sample :  
Date of Sample Collection/Monitoring : 19-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 03-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Village Lampiya (Govt. Hand Pump, School Lampiya)

## 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	6.97	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]	40.5	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	514	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	124.8	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	9.72	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]	30.00	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	44.04	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page...

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


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.11	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]	308	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	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
28	Free Residual Chlorine [mg/l]	BDL(< 0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
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	-
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]	312	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00

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Senior Analyst **Pooja**

  
Authorized Signatory  
(Report No: W/NABL/47 )



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## TEST REPORT

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Job Identification : 10628/17-18  
Date : 03-04-2018  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Mines  
Type of Unit : Potable and Domestic Water  
Type of Sample :  
Date of Sample Collection/Monitoring : 19-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 03-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Village Lampiya (Govt. Hand Pump, School Lampiya)

## 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 Malhotra  
Authorized Signatory  
(Report No: W/47)



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

## TEST REPORT

Report No. :	W/NABL/46
Job Identification. :	10627/17-18
Date :	03-04-2018
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 :	19-03-2018
Date of Sample Receipt :	23-03-2018
Date of Test :	23-03-2018 to 03-04-2018
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	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	7.14	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	550	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	163.92	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1077	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]	51.03	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	71.43	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	17.28	IS 3025 (Part 34) : 1988	45.00	-

Note:

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E-mail : teamtesthouse@gmail.com

Website : www.teamtesthouse.com

E-mail : director@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.49	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]	260	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]	0.37	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	14	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	-
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]	340	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00

Notes :-

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*Pureja*  
Senior Analyst

*Boj*  
Authorized Signatory  
(Report No: W/NABL/46)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/46  
Job Identification. : 10627/17-18  
Date : 03-04-2018  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Mines  
Type of Unit : Potable and Domestic Water  
Type of Sample :  
Date of Sample Collection/Monitoring : 19-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 03-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : 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 Mal Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/46)



# TEAM TEST HOUSE

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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/45  
 Job Identification : 10626/17-18  
 Date : 03-04-2018  
 Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
 ML No. 627/05, Village : Lampiya Tehsil : Banera,  
 District : Bhilwara- 311802 (Rajasthan)  
 Mines  
 Type of Unit : Potable and Domestic Water  
 Type of Sample :  
 Date of Sample Collection/Monitoring : 20-03-2018  
 Date of Sample Receipt : 23-03-2018  
 Date of Test : 23-03-2018 to 03-04-2018  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : 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	7.13	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	432	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]	88.71	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	717	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	102.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	42.77	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]	51.43	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	35.33	IS 3025 (Part 34) : 1988	45.00	-

Note:

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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]	0.15	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]	364	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]	0.42	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	6	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	-
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]	256	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00

Notes :-

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Senior Analyst

Authorized Signatory  
(Report No: W/NABL/45 )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/45  
Job Identification. : 10626/17-18  
Date : 03-04-2018  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Mines  
Type of Unit : Potable and Domestic Water  
Type of Sample :  
Date of Sample Collection/Monitoring : 20-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 03-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : 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	-	-

### Notes :-

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Senior Analyst  
Purnima Yogi

  
Rajesh Mishra  
Authorized Signatory  
(Report No: W/45)



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## TEST REPORT

Report No. : W/NABL/44  
 Job Identification. : 10625/17-18  
 Date : 03-04-2018  
 Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
 ML No. 627/05, Village : Lampiya Tehsil : Banera,  
 District : Bhilwara- 311802 (Rajasthan)  
 Mines  
 Type of Unit : Potable and Domestic Water  
 Type of Sample : 20-03-2018  
 Date of Sample Collection/Monitoring : 23-03-2018  
 Date of Sample Receipt : 23-03-2018 to 03-04-2018  
 Date of Test : Parsa Ram Kudi  
 Sample Collected By : Jaliya Village  
 Point of Collection :

## 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	7.19	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]	241.06	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1193	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	152	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	46.17	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	134.28	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	39.58	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]	0.16	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]	364	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.35	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	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	-
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]	380	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00

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Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/44)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/44  
Job Identification. : 10625/17-18  
Date : 03-04-2018  
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 : 20-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 03-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : 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	Pesticides [mg/l]	Not detected	APHA : 2012	-	-

Notes :-

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Senior Analyst

Authorized Signatory

(Report No: W/44)



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## TEST REPORT

Report No. : W/NABL/48  
 Job Identification. : 10629/17-18  
 Date : 03-04-2018  
 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 : 21-03-2018  
 Date of Sample Receipt : 23-03-2018  
 Date of Test : 23-03-2018 to 03-04-2018  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : 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	7.18	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	460	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]	32.78	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	611	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	107.2	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	46.66	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	29.86	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	43.78	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page...

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

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	BDL(<0.1)	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	400	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)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
27	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	-
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]	268	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00

### Notes :-

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Purni Mal Yogi  
Senior Analyst

Rajesh Mishra  
Authorized Signatory  
(Report No: W/NABL/48)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/48  
Job Identification. : 10629/17-18  
Date : 03-04-2018  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Mines  
Potable and Domestic Water  
Type of Unit :  
Type of Sample :  
Date of Sample Collection/Monitoring : 21-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 03-04-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : 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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Senior Analyst

  
Rajesh Manoj  
Authorized Signatory  
(Report No: W/48)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/49  
 Job Identification. : 10630/17-18  
 Date : 03-04-2018  
 Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
 ML No. 627/05, Village : Lampiya Tehsil : Banera,  
 District : Bhilwara- 311802 (Rajasthan)  
 Mines  
 Type of Unit : Potable and Domestic Water  
 Type of Sample :  
 Date of Sample Collection/Monitoring : 19-03-2018  
 Date of Sample Receipt : 23-03-2018  
 Date of Test : 23-03-2018 to 03-04-2018  
 Sample Collected By : Sitaram jangid  
 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	7.68	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	392	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]	129.21	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	849	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	81.6	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	45.68	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	61.43	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	18.48	IS 3025 (Part 34) : 1988	45.00	-

Note:

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

### RESULTS

Sl. 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]	0.32	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
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]	336	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	-
23	Boron [mg/l]	0.47	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
27	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	-
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]	204	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00

Notes :-

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Puran Mal Yogi  
Senior Analyst

Rajesh Sahwan  
Authorized Signatory  
(Report No: W/NABL/49)



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## TEST REPORT

Report No. : W/49  
 Job Identification. : 10630/17-18  
 Date : 03-04-2018  
 Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
 ML No. 627/05, Village : Lampiya Tehsil : Banera,  
 District : Bhilwara- 311802 (Rajasthan)  
 Mines  
 Type of Unit : Potable and Domestic Water  
 Type of Sample :  
 Date of Sample Collection/Monitoring : 19-03-2018  
 Date of Sample Receipt : 23-03-2018  
 Date of Test : 23-03-2018 to 03-04-2018  
 Sample Collected By : Sitaram jangid  
 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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Purni Mal Vogi  
 Senior Analyst

Rajan Malhotra  
 Authorized Signatory  
 (Report No: W/49)



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## TEST REPORT

Report No. : W/NABL/51  
Job Identification. : 10632/17-18  
Date : 03-04-2018  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Mines  
Type of Unit : Potable and Domestic Water  
Type of Sample :  
Date of Sample Collection/Monitoring : 20-03-2018  
Date of Sample Receipt : 23-03-2018  
Date of Test : 23-03-2018 to 03-04-2018  
Sample Collected By : Sitaram jangid  
Point of Collection : Chimanpura 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	7.90	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	188	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	27	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	406	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]	26.24	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]	12.00	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	2.43	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]	0.19	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	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]	0.40	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1.0	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	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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Puran Maheshwari  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/51)



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### TEST REPORT

Report No. :	W/51
Job Identification. :	10632/17-18
Date :	03-04-2018
Issued To :	M/S Jindal Saw Limited (Lampiya Mines)
	ML No. 627/05, Village : Lampiya Tehsil : Banera,
	District : Bhilwara- 311802 (Rajasthan)
	Mines
Type of Unit :	Potable and Domestic Water
Type of Sample :	20-03-2018
Date of Sample Collection/Monitoring :	23-03-2018
Date of Sample Receipt :	23-03-2018 to 03-04-2018
Date of Test :	Sitaram jangid
Sample Collected By :	Chimanpura Village
Point of Collection :	

### 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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*Puraj Mal Negi*  
Puraj Mal Negi  
Senior Analyst

*Rajesh Maheshwari*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/51)



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## TEST REPORT

Report No. :	W/NABL/50
Job Identification. :	10631/17-18
Date :	03-04-2018
Issued To :	M/S Jindal Saw Limited (Lampiya Mines) ML No. 627/05, Village : Lampiya Tehsil : Banera, District : Bhilwara- 311802 (Rajasthan) Mines
Type of Unit :	Potable and Domestic Water
Type of Sample :	20-03-2018
Date of Sample Collection/Monitoring :	23-03-2018
Date of Sample Receipt :	23-03-2018 to 03-04-2018
Date of Test :	Sitaram jangid
Sample Collected By :	Mandal Village
Point of Collection :	

## 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	7.70	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	344	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]	98.35	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	616	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]	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]	27.14	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	22.56	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page...

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

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

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.15	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]	308	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	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984	-	-
27	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	-
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]	244	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00

Notes :-

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Purni Mal Bogi  
Senior Analyst

Rajeev Kumar Singh  
Authorized Signatory  
(Report No: W/NABL/50)



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

## TEST REPORT

Job Identification. :

W/50

Date :

10631/17-18

Issued To :

03-04-2018

Type of Unit :

M/S Jindal Saw Limited (Lampiya Mines)

Type of Sample :

ML No. 627/05, Village : Lampiya Tehsil : Banera,

Date of Sample Collection/Monitoring :

District : Bhilwara- 311802 (Rajasthan)

Date of Sample Receipt :

Mines

Date of Test :

Potable and Domestic Water

Sample Collected By :

20-03-2018

Point of Collection :

23-03-2018

23-03-2018 to 03-04-2018

Sitaram jangid

Mandal 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	-	-

Notes :-

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*Purani*  
Senior Analyst

*Rajan*  
Authorized Signatory  
(Report No: W/50)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/NABL/52  
 Job Identification. : 10633/17-18  
 Date : 03-04-2018  
 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 : 21-03-2018  
 Date of Sample Receipt : 23-03-2018  
 Date of Test : 23-03-2018 to 03-04-2018  
 Sample Collected By : Sitaram Jangid  
 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	7.40	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	148	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]	44.36	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	287	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	46.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	7.78	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	21.57	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	9.72	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Website : www.teamtesthouse.com

## RESULTS

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]	0.11	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]	160	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]	0.51	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	82	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	-
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]	116	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00

Notes :-

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*Puran Mal Vagi*  
Puran Mal Vagi  
Senior Analyst

*Rajeshwar Anshuman*  
Rajeshwar Anshuman  
Authorized Signatory  
(Report No: W/NABL/52)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. :	W/52
Job Identification. :	10633/17-18
Date :	03-04-2018
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 :	21-03-2018
Date of Sample Receipt :	23-03-2018
Date of Test :	23-03-2018 to 03-04-2018
Sample Collected By :	Sitaram jangid
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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*T. Yogi*  
Senior Analyst

*Raj*  
Rajesh Maheshwan  
Authorized Signatory  
(Report No: W/52)



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E-mail : director@teamtesthouse.com

## TEST REPORT


Report No.: A/3388  
Date : 31-03-2018  
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 : 09-03-2018  
Date of Sample Receipt : 11-03-2018  
Date of Test : 11-03-2018 to 30-03-2018  
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]	240	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.63	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	216	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	25.36	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.38	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	63.52	IS 5182 (Part 23)	100.00

### Notes :-

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Purnan Malhotra  
Senior Analyst

  
Rajesh Malhotra  
Authorized Signatory  
(Report No: A/3388)



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E-mail : director@teamtesthouse.com

## TEST REPORT


Report No. : A/3387  
Date : 31-03-2018  
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 : 09-03-2018  
Date of Sample Receipt : 11-03-2018  
Date of Test : 11-03-2018 to 30-03-2018  
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]	240	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m3]	12.4	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	196	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m3]	26.35	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.30	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m3]	58.15	IS 5182 (Part 23)	100.00

### Notes :-

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Purnan Mal Yogi  
Senior Analyst

  
Rajesh Kumar Shwan  
Authorized Signatory  
(Report No: A/3387)



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

## TEST REPORT

Report No. : A/3385  
Date : 31-03-2018  
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 : 09-03-2018  
Date of Sample Receipt : 11-03-2018  
Date of Test : 11-03-2018 to 30-03-2018  
Sample Collected By : Satyendra Kumar Sharma  
Point of Collection : Village - Devpura


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	250	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.5	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	213	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	24.52	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.40	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	61.73	IS 5182 (Part 23)	100.00

### Notes :-

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Purnan Mal Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/3385)



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## TEST REPORT

Report No. : A/3386  
Date : 31-03-2018  
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 : 09-03-2018  
Date of Sample Receipt : 11-03-2018  
Date of Test : 11-03-2018 to 30-03-2018  
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> ]	210	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	11.6	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	226	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	27.52	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.11	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	60.57	IS 5182 (Part 23)	100.00

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Puren Maheshwari  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/3386)



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

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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : A/3368  
Job Identification. : 10727/17-18  
Date : 07-04-2018  
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 : 19-03-2018  
Date of Sample Receipt : 24-03-2018  
Date of Test : 24-03-2018 to 31-03-2018  
Sample Collected By : Parsa Ram Kudi  
Lampiya Village (Laxmanlal Regar Ji House)  
Point of Collection : [25°27'31.2" N 074°39'31.06"E]

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	230	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	BDL(<0.1)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.69	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	183.8	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	34.9	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	4.63	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	76.19	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/3368)



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## TEST REPORT

Report No. : A/3367  
Job Identification : 10726/17-18  
Date : 07-04-2018  
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 : 19-03-2018  
Date of Sample Receipt : 24-03-2018  
Date of Test : 24-03-2018 to 31-03-2018  
Sample Collected By : Parsa Ram Kudi  
Kamalpura Village (Shanker Ji House) [25°28'18.1" N  
074°38'43.7"E]  
Point of Collection :

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	180	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	BDL(<0.1)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.93	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	239.28	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	33.35	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.94	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	67.97	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran Mal Yogi  
Senior Analyst

Rajesh Maheshwar  
Authorized Signatory  
(Report No: A/3367)



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## TEST REPORT

Report No. : A/3366  
Job Identification. : 10725/17-18  
Date : 07-04-2018  
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 : 19-03-2018  
Date of Sample Receipt : 24-03-2018  
Date of Test : 24-03-2018 to 31-03-2018  
Sample Collected By : Parsa Ram Kudi  
Devpura Village (Shri Narayan Lal Ji House) [25°26'52.7"  
Point of Collection : N 074°37'55.7"E]


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	270	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	BDL(<0.1)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	9.39	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	161.31	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	33.66	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	4.52	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	65.73	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Senior Analyst

  
Authorized Signatory  
(Report No: A/3366)



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## TEST REPORT

Report No. : A/3365  
Job Identification : 10724/17-18  
Date : 07-04-2018  
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 : 19-03-2018  
Date of Sample Receipt : 24-03-2018  
Date of Test : 24-03-2018 to 31-03-2018  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Jaliya Village [25°26'31.2" N 074°38'26.4"E]

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	250	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	BDL(<0.1)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	11.8	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<10.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	217.21	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	23.79	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	4.89	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	75.05	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL(<0.1)	IS 5182 (Part 11) : 2006	5.00
	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Purnan Maurya  
Senior Analyst

Rajesh Maheshwan  
Authorized Signatory  
(Report No: A/3365)



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## TEST REPORT

Report No N/1414  
Date 31/03/2018  
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 16/03/2018 to 21/03/2018  
Date of Sample Receipt 22/03/2018  
Date of Test 22/03/2018  
Sample Collected by Parsa Ram Kuri  
Type of Monitoring Ambient Noise Monitoring

## RESULTS

Sr. No.	Point Of Monitoring	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Lampiya Village	51.9	41.0
2.	Jaliya Village	51.5	41.3
3.	Devpura Village	52.5	41.8
4.	Kamalपुरa Village	51.3	40.9
5.	Baneda Village	51.2	41.7
6.	Chamanपुरa Village	49.4	38.5
7.	Mandal Village	52.8	43.1
8.	Mahua khurd	52.0	40.3
9.	Haul Road	63.5	55.9
10.	Ore storage Yard	63.2	54.7


### 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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Purnima Malhotra  
Senior Analyst

  
Rajesh Malhotra  
Authorized Signatory  
(Report No.: - N/1414)