



# 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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### TEST REPORT

Report No. :	A/1493
Job Identification. :	4579/17-18
Date :	29-09-2017
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 :	09-09-2017
Date of Sample Receipt :	19-09-2017
Date of Test :	19-09-2017 to 28-09-2017
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Banera Village

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	210	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	Less than 0.01	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.64	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]	205.48	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	24.21	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.49	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	57.63	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	6.3	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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*Puran Mal Jogi*  
**Puran Mal Jogi**  
Senior Analyst

*Rajesh Maneshwan*  
**Rajesh Maneshwan**  
Authorized Signatory



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## TEST REPORT

Report No. : A/1492  
 Job Identification : 4578/17-18  
 Date : 29-09-2017  
 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 : 12-09-2017  
 Date of Sample Receipt : 19-09-2017  
 Date of Test : 19-09-2017 to 28-09-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Chimanpura Village

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	250	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	Less than 0.01	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.24	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]	177.16	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	22.07	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	7.18	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	56.15	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	4.6	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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*Puranga*  
Puranga Mal Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwar  
Authorized Signatory



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### TEST REPORT

Report No. : A/1494  
Job Identification. : 4580/17-18  
Date : 29-09-2017  
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 : 10-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 28-09-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Mahua Khurd

### 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]	190	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.09	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.86	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]	185.09	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	27.1	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.48	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	58.18	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	6.2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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

*Rajesh Maheshwan*  
**Rajesh Maheshwan**  
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## TEST REPORT

Report No. :	A/1495
Job Identification. :	4581/17-18
Date :	29-09-2017
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 :	10-09-2017
Date of Sample Receipt :	19-09-2017
Date of Test :	19-09-2017 to 28-09-2017
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/m3]	BDL(<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	240	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.04	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	11.79	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]	176.41	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	28.85	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.8	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	58.84	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	3.4	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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**Puran Mal Yogi**  
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**Rajesh Maheshwan**  
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### TEST REPORT

Report No. : W/NABL/824  
 Job Identification. : 4536/17-18  
 Date : 29-09-2017  
 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 : 11-09-2017  
 Date of Sample Receipt : 19-09-2017  
 Date of Test : 19-09-2017 to 29-09-2017  
 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	7.13	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	456	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.03	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	81.71	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	657	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	150.4	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]	46.43	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	36.09	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]	0.22	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]	100	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]	0.31	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]	4	IS 3025 (part 15) : 1984	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	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]	376.0	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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*Purand Mal Yogi*  
Senior Analyst

*Rajesh Maheshwan*  
Authorized Signatory  
(Report No: W/NABL/824)



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## TEST REPORT

Report No. : W/824  
Job Identification : 4536/17-18  
Date : 29-09-2017  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhitwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 11-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
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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**Puran Maj Yogi**  
Senior Analyst

*Rajesh Maheshwari*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: W/824)



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## TEST REPORT

Report No. : W/NABL/823  
Job Identification. : 4535/17-18  
Date : 29-09-2017  
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 : 12-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
Sample Collected By : Sandeep Kumar  
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	7.34	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]	0.01	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	77.9	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	814	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	44.8	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	56.38	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]	35.71	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	28.15	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page...

*Sandeep*



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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]	0.87	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]	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]	112	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]	0.37	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]	4	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]	112.0	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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Pooja Maheshwari  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/NABL/823 )



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## TEST REPORT

Report No. : W/823  
Job Identification : 4535/17-18  
Date : 29-09-2017  
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 : 12-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
Sample Collected By : Sandeep Kumar  
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	-	-

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Purni Mal Yogi  
Senior Analyst

  
Rajesh Maheshwan  
Authorized Signatory  
(Report No: W/823)



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E-mail : director@teamtesthouse.com

### TEST REPORT

Report No. : W/NABL/822  
Job Identification : 4534/17-18  
Date : 29-09-2017  
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 : 12-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
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	7.28	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	580	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.02	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	195.71	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1051	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]	75.82	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]	85.63	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	35.2	IS 3025 (Part 34) : 1988	45.00	-

Note:

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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.59	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]	124	IS 3025 (Part 23) : 1988	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	-
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]	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]	268.0	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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*Purandhar*  
Purandhar Mal Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwan  
Authorized Signatory  
(Report No: W/NABL/822 )



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## TEST REPORT

Report No. : W/822  
Job Identification. : 4534/17-18  
Date : 29-09-2017  
Issued To : M/S Jindal Saw Limited (Lampiya Mines)  
ML No. 627/05, Village : Lampiya Tehsil : Banera,  
District : Bhitwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 12-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
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	-	-

### Notes ->

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*Purushottam Mal Yogi*  
Senior Analyst

*Rajesh Maheshwan*  
Authorized Signatory  
(Report No: W/822)



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## TEST REPORT

Report No. : W/NABL/821  
 Job Identification : 4533/17-18  
 Date : 29-09-2017  
 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 : 11-09-2017  
 Date of Sample Receipt : 19-09-2017  
 Date of Test : 19-09-2017 to 29-09-2017  
 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	7.23	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	520	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	190.01	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1050	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	128	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	48.6	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	121.88	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	27.06	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]	0.75	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]	328	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.20	IS 13428 (Annexure H)	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]	320.0	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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*Purani*  
**Purani Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: W/NABL/821)



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## TEST REPORT

Report No. : W/821  
Job Identification. : 4533/17-18  
Date : 29-09-2017  
Issued To : M/S Jindal Saw Limited (Lamplya Mines)  
ML No. 627/05, Village : Lamplya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 11-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
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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*Purandhar*  
**Purandhar Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: W/821)



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### TEST REPORT

Report No. : W/NABL/825  
Job Identification. : 4537/17-18  
Date : 29-09-2017  
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 : 11-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Village Banera (Dr. B.R.A. Govt. Campus, Banera)

### 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	7.05	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	504	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]	49.4	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	631	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	94.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	65.12	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]	45.71	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	35.11	IS 3025 (Part 34) : 1988	45.00	-

Note:

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*Raj*



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



TC-5025

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

NABL

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ISO 9001:2008

OHSAS 18001:2007

JDA/UDH

Office : E-65, Chitranganj Marg,  
C-Scheme, Jaipur-302001  
Phone : 0141-2369980, 2771865  
Website : www.teamtesthouse.com

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

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.14	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	0.05	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	96	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]	0.25	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]	4	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]	236.0	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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*Pursh Mal Vogi*  
Senior Analyst

*Rajesh*  
Rajesh Maneswari  
Authorized Signatory  
(Report No: W/NABL/825)



# TEAM TEST HOUSE

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

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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/825  
Job Identification. : 4537/17-18  
Date : 29-09-2017  
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 : 11-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Village Banera (Dr. B.R.A. Govt. Campus, Banera)

## 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 Maheshwari  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/825)



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E-mail : director@teamtesthouse.com

### TEST REPORT

Report No. : W/NABL/828  
Job Identification. : 4540/17-18  
Date : 29-09-2017  
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 : 12-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
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	7.28	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	220	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	19	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	428	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	27.2	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	36.94	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]	68.12	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	2.17	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page...

*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]	0.52	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
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]	96	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]	0.25	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]	4	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]	68.0	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*  
**Puran Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: W/NABL/828 )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/828  
Job Identification. : 4540/17-18  
Date : 29-09-2017  
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 : 12-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
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	-	-

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Puran Majhi  
Senior Analyst

  
Rajesh Manesriwan  
Authorized Signatory  
(Report No: W/828)



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## TEST REPORT

Report No. : W/NABL/827  
Job Identification. : 4539/17-18  
Date : 29-09-2017  
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 : 12-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : 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	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.31	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	300	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]	98.81	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	582	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]	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]	32.86	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	14.56	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page...

*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]	0.33	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	0.05	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	116	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]	0.19	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]	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	-
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]	192.0	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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Senior Analyst

Authorized Signatory  
(Report No: W/NABL/827)



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## TEST REPORT

Report No. : W/827  
Job Identification : 4539/17-18  
Date : 29-09-2017  
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 : 12-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : 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	-	-

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*Puran*  
Puran Mal Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: W/827)



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## TEST REPORT

Report No. : W/NABL/826  
Job Identification. : 4538/17-18  
Date : 07-10-2017  
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 : 11-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Chamanpura 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	7.33	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]	115.91	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	859	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	89.6	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	54.43	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]	63.75	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	27.04	IS 3025 (Part 34) : 1988	45.00	-

Note:

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Tonk Road, JAIPUR-302022 Raj.  
Ph.: 94602-22039, 94602-22049

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
16	Fluoride [mg/l]	0.69	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]	0.03	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	330.72	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]	0.21	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]	3	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]	224	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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*Puraye*  
**Puran Mal Yodi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: W/NABL/826)



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/826  
Job Identification. : 4538/17-18  
Date : 07-10-2017  
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 : 11-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Chamanpura 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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Puran Mal Yogi  
Senior Analyst

  
Rajesh Maheshwan  
Authorized Signatory  
(Report No: W/826)



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E-mail : director@teamtesthouse.com

### TEST REPORT

Report No. :	W/NABL/830
Job Identification. :	4542/17-18
Date :	29-09-2017
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 :	11-09-2017
Date of Sample Receipt :	19-09-2017
Date of Test :	19-09-2017 to 29-09-2017
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Lampiya Pond

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.30	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	54	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]	3.8	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	88	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	16	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	3.4	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]	5.29	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	1.17	IS 3025 (Part 34) : 1988	45.00	-

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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]	0.10	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	0.01	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	20	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]	Not detected	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]	40.0	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

Notes :-

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

*Rajesh Waheshwari*  
**Rajesh Waheshwari**  
Authorized Signatory  
(Report No: W/NABL/830 )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No. : W/830  
Job Identification : 4542/17-18  
Date : 29-09-2017  
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 : 11-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Lampiya Pond

## RESULTS

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

**Notes -**

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*Purani*  
**Purani Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwan**  
Authorized Signatory  
(Report No: W/830)



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### TEST REPORT

Report No. : W/NABL/829  
Job Identification. : 4541/17-18  
Date : 29-09-2017  
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 : 12-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
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	7.40	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	100	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.04	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	19	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	185	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	28.8	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	6.8	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	7.14	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	1.98	IS 3025 (Part 34) : 1988	45.00	-

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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]	0.16	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]	28	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]	Not detected	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]	4	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]	72.0	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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*Purani*  
**Purani Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: W/NABL/829)



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**TEST REPORT**

Report No. : W/829  
Job Identification.: 4541/17-18  
Date : 29-09-2017  
Issued To : M/S Jindal Saw Limited (Lamplya Mines)  
ML No. 627/05, Village : Lamplya Tehsil : Banera,  
District : Bhilwara- 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable and Domestic Water  
Date of Sample Collection/Monitoring : 12-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
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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*Purandhar Malhotra*  
Purandhar Malhotra  
Senior Analyst

*Rajesh Mahashwan*  
Rajesh Mahashwan  
Authorized Signatory  
(Report No: W/829)



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## TEST REPORT

Report No. : A/1491  
 Job Identification : 4577/17-18  
 Date : 29-09-2017  
 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 : 11-09-2017  
 Date of Sample Receipt : 19-09-2017  
 Date of Test : 19-09-2017 to 29-09-2017  
 Sample Collected By : Parsa Ram Kudi  
 Point of Collection : Lampiya Village

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	250	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.07	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.98	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]	204.14	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	24.4	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.45	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	61.57	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	4.9	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

### Notes >

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*Puran Mal Yogi*  
Puran Mal Yogi  
Senior Analyst

*Rajesh Maheshwan*  
Rajesh Maheshwan  
Authorized Signatory



# TEAM TEST HOUSE

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

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E-mail : director@teamtesthouse.com

### TEST REPORT

Report No. : A/1490  
Job Identification. : 4576/17-18  
Date : 29-09-2017  
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 : 11-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Kamalpura Village

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	190	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.03	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.6	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]	198.4	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	26.79	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.27	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	65.33	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	6.6	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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**Puran Mal Yogi**  
Senior Analyst

**Rajesh Maheshwar**  
Authorized Signatory



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## TEST REPORT

Report No. :	A/1489
Job Identification. :	4575/17-18
Date :	29-09-2017
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 :	11-09-2017
Date of Sample Receipt :	19-09-2017
Date of Test :	19-09-2017 to 29-09-2017
Sample Collected By :	Sandeep Kumar
Point of Collection :	Devpura 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> ]	240	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m <sup>3</sup> ]	0.05	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.25	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> ]	204.5	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	28.06	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.03	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	55.92	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL (<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL (<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m <sup>3</sup> ]	5	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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

*Rajesh Maheshwan*  
**Rajesh Maheshwan**  
Authorized Signatory



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### TEST REPORT

Report No. : A/1488  
Job Identification. : 4574/17-18  
Date : 29-09-2017  
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 : 11-09-2017  
Date of Sample Receipt : 19-09-2017  
Date of Test : 19-09-2017 to 29-09-2017  
Sample Collected By : Parsa Ram Kudi  
Point of Collection : Jaliya 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> ]	220	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m <sup>3</sup> ]	0.03	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.09	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> ]	229.93	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	23.76	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.04	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	64.11	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo- $\alpha$ - 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> ]	4.4	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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**Puran Mal Yogi**  
Senior Analyst

*Rajesh Maheshwan*  
**Rajesh Maheshwan**  
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# TEAM TEST HOUSE

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TC-5025

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## TEST REPORT

Report No. :	A/503
Job Identification. :	4898/17-18
Date :	29-09-2017
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 :	25-09-2017
Date of Sample Receipt :	28-09-2017
Date of Test :	28-09-2017 to 29-09-2017
Sample Collected By :	Sandeep Kumar
Point of Collection :	Lampiya Village (Laxmanlal Regar) [25°27'31.2"N 74°39'31.06"]

## 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 NO2 [microgram/m3]	14.86	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	230.3	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	24.5	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	5.48	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	61.94	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

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**Puran Mal Bogi**  
Senior Analyst

**Rajesh Maheshwan**  
Authorized Signatory  
(Report No: A/503)



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## TEST REPORT

Report No. :	A/502
Job Identification. :	4897/17-18
Date :	29-09-2017
Issued To :	M/S Jindal Saw Limited (Lamplya Mines) ML No. 627/05, Village : Lamplya Tehsil : Banera, District : Bhilwara- 311802 (Rajasthan)
Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring :	25-09-2017
Date of Sample Receipt :	28-09-2017
Date of Test :	28-09-2017 to 29-09-2017
Sample Collected By :	Sandeep Kumar
Point of Collection :	Kamalpura Village (Shankar Ji House) [25°28'18.1"N 74°38'43.7"E]

## 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> ]	11.07	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	225.39	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	27.47	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	5.68	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	69.21	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

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*Puran Mal Yogi*  
Puran Mal Yogi  
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*Rajesh Maheshwari*  
Rajesh Maheshwari  
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(Report No: A/502)



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## TEST REPORT

Report No. :	A/501
Job Identification. :	4896/17-18
Date :	29-09-2017
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 :	26-09-2017
Date of Sample Receipt :	28-09-2017
Date of Test :	28-09-2017 to 29-09-2017
Sample Collected By :	Sandeep Kumar
Point of Collection :	Devpura Village (Shri Narayan Lal Ji House) [25°26'52.7"N 74°37'55.7"E]

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	220	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	10.97	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	233.54	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	26.75	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	5.95	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	56.37	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes -

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*Puray*  
**Puray Mal Yodh**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwar**  
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### TEST REPORT

Report No. :	A/1500
Job Identification. :	4895/17-18
Date :	29-09-2017
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 :	26-09-2017
Date of Sample Receipt :	28-09-2017
Date of Test :	28-09-2017 to 29-09-2017
Sample Collected By :	Sandeep Kumar
Point of Collection :	Jaliya Village (Ramji Lal House) [25°26'31.2"N 74°38'26.4"E]

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	190	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.78	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	191.35	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	26.32	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	4.04	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	59.09	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

**Notes :-**

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## TEST REPORT

Report No N/619  
 Date 28/09/2017  
 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 11/09/2017 to 13/09/2017  
 Date of Sample Receipt 19/09/2017  
 Date of Test 19/09/2017  
 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	53.7	42.3
2.	Jaliya Village	52.4	43.5
3.	Devpura Village	50.8	42.2
4.	Kamalpura Village	53.8	41.3
5.	Baneda Village	52.5	41.6
6.	Chamanpura Village	50.8	41.5
7.	Mandal Village	53.4	42.5
8.	Mahua khurd	51.9	43.5
9.	Haul Road	66.8	54.5
10.	Ore storage Yard	65.4	56.2

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

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

### Note: -

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Senior Analyst

*Rajesh*  
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