



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/527
Job Identification. : A562/18-19
Date : 27-06-2018
Issued To : M/S Jindal Saw Limited (Pellet Plant)
Iron Ore Pellet Unit, Khasra No. 6711, 9697/6711 Village Pur P.O. Pur
Tehsil Bhilwara
District : Bhilwara- 311802 (Rajasthan)
Type of Unit : Pellet unit
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 06-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 27-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near Staff Canteen Aera [25°19'010 N 074°32'496 E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	9.47	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	270	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.39	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	328.51	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	39.17	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	7.34	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	82.32	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]	10.8	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran
Puran Mai Yogi

Rajesh
Rajesh Maheshwan



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TEST REPORT

Report No. : A/825
Job Identification. : A560/18-19
Date : 27-06-2018
Issued To : M/S Jindal Saw Limited (Pellet Plant)
Iron Ore Pellet Unit, Khasra No. 6711, 9697/6711 Village Pur P.O. Pur
Tehsil Bhilwara
District : Bhilwara- 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 04-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 27-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Tiranga House

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	8.59	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	330	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.26	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.69	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	305	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	41.99	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	7.49	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	85.74	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]	10.6	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal Yogi


Rajesh Maheshwari



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TEST REPORT

Report No. : A/826
Job Identification. : A561/18-19
Date : 27-06-2018
Issued To : M/S Jindal Saw Limited (Pellet Plant)
Iron Ore Pellet Unit, Khasra No. 6711, 9697/6711 Village Pur P.O. Pur
Tehsil Bhilwara
District : Bhilwara- 311802 (Rajasthan)
Type of Unit : Pellet unit
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 05-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 27-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near Switch Yard [25°19'456 N 074°32'568 E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	10.47	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	290	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.39	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m3]	15.2	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	361.59	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m3]	37.55	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	9.74	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m3]	86.03	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]	15.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal Yadav


Rajesh Maheshwari



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TEST REPORT

Report No. : A/828
Job Identification. : A563/18-19
Date : 27-06-2018
Issued To : M/S Jindal Saw Limited (Pellet Plant)
Iron Ore Pellet Unit, Khasra No. 6711, 9697/6711 Village Pur P.O. Pur
Tehsil Bhilwara
District : Bhilwara- 311802 (Rajasthan)
Type of Unit : Pellet unit
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 06-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 27-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near BFN Plant -B [25°19'172 N 074°32'385 E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	10.4	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	270	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.43	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m3]	15.09	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	321.28	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m3]	34.15	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.53	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	78.3	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]	5.4	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Majhi


Rajesh Maheshwari



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TEST REPORT

Report No. : A/829
Job Identification. : A564/18-19
Date : 27-06-2018
Issued To : M/S Jindal Saw Limited (Pellet Plant)
Iron Ore Pellet Unit, Khasra No. 6711, 9697/6711 Village Pur P.O. Pur
Tehsil Bhilwara
District : Bhilwara- 311802 (Rajasthan)
Type of Unit : Pellet unit
Type of Sample : Fugitive Emission Quality Monitoring
Date of Sample Collection/Monitoring : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 27-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Bentonite Grinding Area

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m ³]	473.95	IS 5182 (Part 4) : 1999 Reaffirmed 2014

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Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: A/829)



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TEST REPORT

Report No. : A/830
Job Identification. : A565/18-19
Date : 27-06-2018
Issued To : M/S Jindal Saw Limited (Pellet Plant)
Iron Ore Pellet Unit, Khasra No. 6711, 9697/6711 Village Pur P.O. Pur
Tehsil Bhilwara
District : Bhilwara- 311802 (Rajasthan)
Type of Unit : Pellet unit
Type of Sample : Fugitive Emission Quality Monitoring
Date of Sample Collection/Monitoring : 11-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 27-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Coal Pulverize Area (Near Nitrogen Plant)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m ³]	547.56	IS 5182 (Part 4) : 1999 Reaffirmed 2014

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: A/830)



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TEST REPORT

Report No : ST/333
Job Identification : ST205/18-19
Date : 27/06/2018
Issued to : M/s. Jindal Saw Limited (Pellet Plant)
Iron Ore Pellet Unit, Khasra No. 6711,9696/6711,
Village Pur, Tehsil & District – Bhilwara-311802
Rajasthan.
Type of Unit : Pellet Unit
Date of Sample Collection : 13/06/2018
Date of Sample Receipt : 16/06/2018
Date of Test : 16/06/2018 to 27/06/2018
Type of Stack : RCC
Stack Identification : Rotary Kiln (ESP attached with Stack)
Sampling Instrument : Vayubodhan Stack Monitoring Kit VSS 1
Testing Protocol : As per IS 11255 (Part -1):1985
Sample Collected By : Mr. Paras Ram Kuri


RESULTS

S. No	Parameter	Units	Observed Value
1.	Particulate Matter	mg/Nm ³	35.41

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: ST/333)



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TEST REPORT

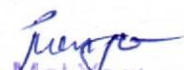
Report No : ST/334
Job Identification : ST206/18-19
Date : 27/06/2018
Issued to : M/s. Jindal Saw Limited (Pellet Plant)
Iron Ore Pellet Unit, Khasra No. 6711,9696/6711
Village Pur, Tehsil & District – Bhilwara-311802
Rajasthan.
Type of Unit : Pellet Unit
Date of Sample Collection : 13/06/2018
Date of Sample Receipt : 16/06/2018
Date of Test : 16/06/2018 to 27/06/2018
Type of Stack : MS
Stack Identification : Coal Grinding Mill
Sampling Instrument : Vayubodhan Stack Monitoring Kit VSS 1
Testing Protocol : As per IS 11255 (Part 1):1985
Sample Collected By : Mr. Parsa Ram Kuri

RESULTS

S. No	Parameter	Units	Observed Value
1.	Particulate Matter	mg/Nm ³	28.66

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Purnan Malhotra
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: ST/334)



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TEST REPORT

Report No. : ST/335
Job Identification: ST207/18-19
Date : 27-06-2018
Issued to M/s. Jindal Saw Limited
Iron Ore Pellet Unit, Khasra No.6711,9696/6711 Villagr -Pur,
District Bhilwara (Rajasthan)
Type of Unit Pellet Plant
Type of Sample : **DG Stack Monitoring**
Date of Sample Collection/ Monitoring: 13-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 27-06-2018
Sample Collected by : Parsa Ram Kudi
Point of Collection : D.G. Set 563 KVA (Magna Max)


RESULTS

S. No	Parameter	Unit	Observed Value	Testing Protocol	Limits as per Environment (Protection) Act, 1986,
1.	Particulate Matter	g/kw-hr	0.09	IS:11255 (Part-1)	0.3
2.	Oxides of Nitrogen as NO ₂	g/kw-hr	2.55	IS:11255 (Part-7)	9.2
3.	Carbon monoxide as CO	g/kw-hr	0.81	IS:5182 (Part-10)	3.5
4.	Sulphur Dioxide as SO ₂	g/kw-hr	BDL(<0.02)	IS:11255 (Part-2)	-
5.	Hydrocarbon as HC	g/kw-hr	0.18	IS:5182 (Part-21)	1.3

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Puran Mal Yogi
Senior Analyst


Raiesh Maheshwari
Authorized Signatory
(Report No: ST/335)



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TEST REPORT

Report No. : ST/336
Job Identification: ST208/18-19
Date : 27-06-2018
Issued to M/s. Jindal Saw Limited
Iron Ore Pellet Unit, Khasra No.6711,9696/6711 Villagr -Pur,
District Bhilwara (Rajasthan)
Pellet Plant
Type of Unit
Type of Sample : **DG Stack Monitoring**
Date of Sample Collection/ Monitoring: 13-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 27-06-2018
Sample Collected by : Parsa Ram Kudi
Point of Collection : D.G. Set 750 KVA (Kirloskar)


RESULTS

S. No	Parameter	Unit	Observed Value	Testing Protocol	Limits as per Environment (Protection) Act, 1986,
1.	Particulate Matter	g/kw-hr	0.11	IS:11255 (Part-1)	0.3
2.	Oxides of Nitrogen as NO ₂	g/kw-hr	2.87	IS:11255 (Part-7)	9.2
3.	Carbon monoxide as CO	g/kw-hr	0.80	IS:5182 (Part-10)	3.5
4.	Sulphur Dioxide as SO ₂	g/kw-hr	BDL(<0.02)	IS:11255 (Part-2)	-
5.	Hydrocarbon as HC	g/kw-hr	0.25	IS:5182 (Part-21)	1.3

Note: -

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Puran Mal Yagi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: ST/336)



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TEST REPORT

Report No. : W/NABL/521
 Job Identification. : W396/18-19
 Date : 09-07-2018
 Issued To : M/S Jindal Saw Limited (Pellet Plant)
 Iron Ore Pellet Unit, Khasra No. 6711, 9697/6711 Village Pur P.O. Pur
 Tehsil Bhilwara
 District : Bhilwara- 311802 (Rajasthan)
 Type of Unit : Mines
 Type of Sample : Potable and Domestic Water
 Date of Sample Collection/Monitoring : 09-06-2018
 Date of Sample Receipt : 16-06-2018
 Date of Test : 16-06-2018 to 27-06-2018
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Near Balling Disk (Borewell)

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	7.55	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	480	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	210.57	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1678	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	124	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	41.31	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]	278.57	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	34.19	IS 3025 (Part 34) : 1988	45.00	-

Note:

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C-Scheme, Jaipur-302001
Phone : 0141-2369980, 2771865

Lab.: G1-584, Sitapura Industrial Area
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]	0.70	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]	288	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]	0.44	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	Free Residual Chlorine [mg/l]	BDL(< 0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
30	Mineral oil [mg/l]	BDL(< 0.5)	IS 3025 (Part 39) : 1991	0.5	-
31	Cyanide [mg/l]	BDL(< 0.01)	IS 3025 (Part 27) : 1986	0.01	-
32	Calcium Hardness [mg/l]	310	IS 3025 (Part 40) : 1991	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(< 0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	-

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: W/NABL/521)



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

TEST REPORT

Report No : W/521
Job Identification : W396/18-19
Date : 09-07-2018
Issued To : M/S Jindal Saw Limited (Pellet Plant)
Iron Ore Pellet Unit, Khasra No. 6711, 9697/6711 Village Pur P.O. Pur
Tehsil Bhilwara
District : Bhilwara- 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 09-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 27-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near Baling Disk (Borewell)


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 Maheshwari
Authorized Signatory
(Report No: W/521)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/520
Job Identification. : W395/18-19
Date : 27-06-2018
Issued To : M/S Jindal Saw Limited (Pellet Plant)
ML No. 627/05, Village : Lampiya Tehsil : Banera,
District : Bhilwara- 311802 (Rajasthan)
Type of Unit : Pellet Plant
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 09-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 27-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Pur 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	7.61	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	170	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]	74.4	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	368	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	44	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	14.58	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	76.3	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	12.5	IS 3025 (Part 34) : 1988	45.00	-

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Lab.: G1-584, Sitapura Industrial Area

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]	0.37	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]	56	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]	0.28	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]	30	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]	110	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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Pooja
Senior Analyst

Rajesh
Authorized Signatory

(Report No: W/NABL/520)



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TEST REPORT

Report No.: W/NABL/520
Job Identification.: W395/18-19
Date: 27-06-2018
Issued To: M/S Jindal Saw Limited (Pellet Plant)
ML No. 627/05, Village : Lampiya Tehsil : Banera,
District : Bhilwara- 311802 (Rajasthan)
Type of Unit : Pellet Plant
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 09-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 27-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Pur 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	-	-

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Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/520)



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TEST REPORT

Report No. :	W/NABL/522
Job Identification. :	W/39718-19
Date :	27-06-2018
Issued To :	M/S Jindal Saw Limited (Pellet Plant)
Address :	Iron Ore Pellet Unit, Khasra No.6711,9696/6711 Village -Pur, District Bhilwara (Rajasthan)
Type of Unit :	Pellet Plant
Type of Sample :	Potable and Domestic Water
Date of Sample Collection/Monitoring :	13-06-2018
Date of Sample Receipt :	16-06-2018
Date of Test :	16-06-2018 to 27-06-2018
Sample Collected By :	Parsa ram Kudi
Point of Collection :	Drinking Water Nr. CCR Building

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]	48	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]	143	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	14.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	2.91	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]	7.45	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	6.52	IS 3025 (Part 34) : 1988	45.00	-

Note:

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RESULTS

Lab.: G1-584, Sitapura Industrial Area

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]	0.28	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]	60	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]	0.30	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL (<0.01)	APHA :2012 :3111- B	0.05	-
27	Free Residual Chlorine [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	selenium [mg/l]	BDL (<0.01)	IS 3025 (Part 56) : 2003	0.01	-
29	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994	0.001	-
30	Phenolic Compound [mg/l]	BDL (<0.001)	IS 3025 (Part 43) : 1992	0.001	-
31	Mineral oil [mg/l]	BDL (<0.5)	IS 3025 (Part 39) : 1991	0.5	-
32	Cyanide [mg/l]	BDL (< 0.01)	IS 3025 (Part 27) : 1986	0.05	-
33	Calcium Hardness [mg/l]	36	IS 3025 (Part 40) : 1991	-	-
34	Anionic Surface Detergents	BDL (<0.1)	IS 13428 (Annexure K)	0.2	1.00

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Ruran Mal Yogi
Senior Analyst

Raish Maheshwari
Authorized Signatory
(Report No: W/NABL/522)



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JDA/UDH

TEST REPORT

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Tonk Road, JAIPUR-302022 Raj.
Ph.: 94602-22039, 94602-22049
E-mail : teamtesthouse@gmail.com
E-mail : director@teamtesthouse.com

Job Identification :
Date : 27-06-2018
Issued To : M/S Jindal Saw Limited (Pellet Plant)
Address : Iron Ore Pellet Unit, Khasra
No 6711,9696/6711 Village -Pur, District
Bhilwara (Rajasthan)
Type of Unit : Pellet Plant
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 13-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 27-06-2018
Sample Collected By : Parsa ram Kudi
Point of Collection : Drinking Water Nr. CCR Building


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 Maheshwari
Authorized Signatory
(Report No: W/522)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : WW/NABL/321
Job Identification. : WW268/18-19
Date : 27-06-2018
Issued To : M/S Jindal Saw Limited (Pellet Plant)
Iron Ore Pellet Unit, Khasra No. 6711, 9697/6711 Village Pur P.O. Pur Tehsil Bhilwara
District : Bhilwara- 311802 (Rajasthan)
Type of Unit : Pellet unit
Type of Sample : Wastewater Sample
Date of Sample Collection/Monitoring : 12-06-2018
Date of Sample Receipt : 16-06-2018
Date of Test : 16-06-2018 to 27-06-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : 15 KLD STP Outlet

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	43	APHA.2012:2540-D	100
2	Ammonical Nitrogen [mg/l]	13.0	APHA 2012 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	20	APHA 2012:5210-B	30
4	Chloride [mg/l]	229.72	APHA 2012 : 4500-CI	-
5	Chemical Oxygen Demand (COD) [mg/l]	96	APHA:2012 : 5220-C	250
6	pH	8.05	APHA:2012 : 4500 H+B	5.5 - 9.0
7	Sulphide [mg/l]	BDL(< 0.1)	APHA. 2012 : 4500-S2-F	2
8	Total Kjeldahl Nitrogen (TKN) [mg/l]	17.20	APHA 2012 : 4500-Norg B	100
9	Oil & Grease [mg/l]	4	APHA-2012 :5520-B	10
10	Total Residual Chlorine [mg/l]	BDL(<0.1)	APHA:2012 : 4500-CI-B	1.0

Notes :-

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

Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: WW/NABL/321)



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

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TEST REPORT

Report No N/349
Date 27/06/2018
Issued to M/s. Jindal Saw Limited (Pellet Plant)
Iron Ore Pellet Plant, Khasra No.6711, 9997/6711
Near Village -Pur, Tehsil & District Bhilwara
(Rajasthan)
Type of Unit Pellet plant
Date of Monitoring 08/06/2018 to 10/06/2018
Date of Sample Receipt 16/06/2018
Date of Test 16/06/2018 to 27/06/2018
Sample Collected by Parsa Ram Kudi
Type of Monitoring Ambient Noise Level Monitoring

RESULTS

Sr. No.	Point Of Monitoring	Observed value [Leq dB (A)] Day Time	Observed value [Leq dB (A)] Night Time
1.	Near Nitrogen Plant	66.6	58.3
2.	Near Cooler Area	70.9	62.6
3	Near DG Area	67.2	58.3
4	Near Proportioning & HPGR Building	64.9	57.6
5	Near Balling Disk	68.7	61.9


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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Puran May Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No.: - N/349)