



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/2330
Job Identification. : 7362/17-18
Date : 27-12-2017
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 : 11-12-2017
Date of Sample Receipt : 19-12-2017
Date of Test : 19-12-2017 to 27-12-2017
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]	8.5	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	280	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m3]	13.93	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	10.5	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	251.7	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM _{2.5}) [microgram/m3]	30.83	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]	77.89	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]	Less than 1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran Mal Vogi
Puran Mal Vogi

Rajesh Maheshwan
Rajesh Maheshwan



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TEST REPORT

Report No. : A/2328
Job Identification. : 7360/17-18
Date : 27-12-2017
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 : 11-12-2017
Date of Sample Receipt : 19-12-2017
Date of Test : 19-12-2017 to 27-12-2017
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near Tiranga House [25°18'975 N 074°32'306 E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	12.6	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	410	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.05	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	17.81	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	25.2	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	280.47	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	31.58	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.46	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	79.43	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]	Less than 1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal
Puran Mal Yogi

Rajesh Maheshwan
Rajesh Maheshwan



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TEST REPORT

Report No. : A/2329
Job Identification. : 7361/17-18
Date : 27-12-2017
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 : 11-12-2017
Date of Sample Receipt : 19-12-2017
Date of Test : 19-12-2017 to 27-12-2017
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]	15.2	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	310	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.18	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	16.52	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	20.6	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	246.07	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	34.22	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	7.37	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	79.51	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]	Less than 1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal Yogi


Rajesh Maheshwan



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TEST REPORT

Report No. : A/2331
Job Identification. : 7363/17-18
Date : 27-12-2017
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 : 11-12-2017
Date of Sample Receipt : 19-12-2017
Date of Test : 19-12-2017 to 27-12-2017
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]	14.6	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	320	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	16.53	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	13.6	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	253.93	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM2.5) [microgram/m3]	29.69	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	7.26	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	86.09	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]	5.5	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Purani Mst Yogi

Rajesh Maheshwan



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TEST REPORT

Report No : ST/962
Job Identification : 7366
Date : 27/12/2017
Issued to : M/s. Jindal Saw Limited
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 : 14/12/2017
Date of Sample Receipt : 19/12/2017
Date of Test : 19/12/2017 to 27/12/2017
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	41.73

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: ST/962)



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TEST REPORT


Report No : ST/963
Job Identification : 7367
Date : 27/12/2017
Issued to : M/s. Jindal Saw Limited
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 : 14/12/2017
Date of Sample Receipt : 19/12/2017
Date of Test : 19/12/2017 to 27/12/2017
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	40.23

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: ST/963)



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TEST REPORT


Report No. : ST/964
Job Identification: 7368/17-18
Date : 27-12-2017
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: 15-12-2017
Date of Sample Receipt : 19-12-2017
Date of Test : 19-12-2017 to 27-12-2017
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	0.16	IS:11255 (Part-1)	0.3
2.	Oxides of Nitrogen as NO ₂	g/kw-hr	2.52	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	0.11	IS:5182 (Part-21)	1.3

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Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: ST/964)



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TEST REPORT

Report No. : ST/965
Job Identification: 7369/17-18
Date : 27-12-2017
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: 15-12-2017
Date of Sample Receipt : 19-12-2017
Date of Test : 19-12-2017 to 27-12-2017
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	0.13	IS:11255 (Part-1)	0.3
2.	Oxides of Nitrogen as NO ₂	g/kw-hr	2.71	IS:11255 (Part-7)	9.2
3.	Carbon monoxide as CO	g/kw-hr	0.56	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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Rajesh Maheshwan
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(Report No: ST/965)



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TEST REPORT

Report No. : WW/NABL/1023
Job Identification. : 7339/17-18
Date : 27-12-2017
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 : 15-12-2017
Date of Sample Receipt : 19-12-2017
Date of Test : 19-12-2017 to 27-12-2017
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]	37	APHA.2012:2540-D	100
2	Ammonical Nitrogen [mg/l]	9.04	APHA 2012 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	21	APHA 2012:5210-B	30
4	Chloride [mg/l]	445.07	APHA 2012 : 4500-CI	-
5	Chemical Oxygen Demand (COD) [mg/l]	119.81	APHA:2012 : 5220-C	250
6	pH	7.56	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]	23.52	APHA 2012 : 4500-Norg B	100
9	Oil & Grease [mg/l]	7	APHA-2012 :5520-B	10
10	Total Residual Chlorine [mg/l]	BDL(<0.1)	APHA:2012 : 4500-CI-B	1.0

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: WW/NABL/1023)



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TEST REPORT

Report No

N/989

Date

27/12/2017

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

11/12/2017 to 12/12/2017

Date of Sample Receipt

19/12/2017

Date of Test

19/12/2017 to 27/12/2017

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	73.5	61.3
2.	Near Cooler Area	68.6	60.8
3	Near DG Area	70.4	62.7
4	Near Proportioning & HPGR Building	72.5	63.0
5	Near Blending Disc	71.6	62.5

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: -

- 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.

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