



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

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

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

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TEST REPORT

Report No. : ST/693

Job Identification. : ST588/18-19

Date : 03-10-2018

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 Plant

Type of Sample : Stack Emission Level

Date of Sample Collection/Monitoring : 06-09-2018

Date of Sample Receipt : 11-09-2018

Date of Test : 11-09-2018 to 28-09-2018

Sample Collected By : Parsa Ram Kudi

Point of Collection : Rotary Klin Stack

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	33.17	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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


Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: ST/693)



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TEST REPORT

Report No. : ST/694
Job Identification. : ST589/18-19
Date : 28-09-2018
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 : Stack Emission Level
Date of Sample Collection/Monitoring : 06-09-2018
Date of Sample Receipt : 11-09-2018
Date of Test : 11-09-2018 to 27-09-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Coal Mill Stack

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	40.64	IS 11255 (Part 1):1985 Reaffirmed 2014

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TEST REPORT

Report No. : ST/696
Job Identification: ST591/18-19
Date : 28-09-2018
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: 07-09-2018
Date of Sample Receipt : 11-09-2018
Date of Test : 11-09-2018 to 28-09-2018
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	0.12	IS:11255 (Part-1)	0.3
2.	Oxides of Nitrogen as NO ₂	g/kw-hr	2.46	IS:11255 (Part-7)	9.2
3.	Carbon monoxide as CO	g/kw-hr	0.85	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	0.26	IS:5182 (Part-21)	1.3

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TEST REPORT

Report No. : ST/695
Job Identification: ST590/18-19
Date : 03-10-2018
Issued to M/s. Jindal Saw Limited
Iron Ore Pellet Unit, Khasra No.6711,9696/6711 Village -Pur,
District Bhilwara (Rajasthan)
Type of Unit Pellet Plant
Type of Sample : **DG Stack Monitoring**
Date of Sample Collection/ Monitoring: 07-09-2018
Date of Sample Receipt : 11-09-2018
Date of Test : 11-09-2018 to 28-09-2018
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	0.10	IS:11255 (Part-1)	0.3
2.	Oxides of Nitrogen as NO ₂	g/kw-hr	2.42	IS:11255 (Part-7)	9.2
3.	Carbon monoxide as CO	g/kw-hr	1.20	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	0.21	IS:5182 (Part-21)	1.3

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
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TEST REPORT

Report No. : A/1639
Job Identification. : A1281/18-19
Date : 28-09-2018
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 : 05-09-2018
Date of Sample Receipt : 11-09-2018
Date of Test : 11-09-2018 to 27-09-2018
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]	9.2	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	370	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 NO ₂ [microgram/m3]	15.7	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	227.19	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
7	Particulate Matter (PM _{2.5}) [microgram/m3]	27.35	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.93	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m3]	69.63	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]	4.2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal
Puran Mal Yogi

Rajesh
Rajesh Manishwari



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TEST REPORT

Report No. : A/1637
Job Identification. : A1279/18-19
Date : 28-09-2018
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 : 05-09-2018
Date of Sample Receipt : 11-09-2018
Date of Test : 11-09-2018 to 27-09-2018
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]	8.4	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	230	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.06	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m3]	15.52	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	201.66	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m3]	29.97	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.4	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	69	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]	1.6	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puranga
Puranga Mah Yogi

Rajesh Maheshwari
Rajan



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TEST REPORT

Report No. : A/1638
Job Identification. : A1280/18-19
Date : 28-09-2018
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 : 05-09-2018
Date of Sample Receipt : 11-09-2018
Date of Test : 11-09-2018 to 27-09-2018
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]	10.5	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	360	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.06	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m3]	17.76	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	230.32	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m3]	29.98	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	7.29	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	76.21	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- α - 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]	3.3	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal Yogi

Rajesh Maheshwari



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : A/1640
Job Identification. : A1282/18-19
Date : 28-09-2018
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 : 05-09-2018
Date of Sample Receipt : 11-09-2018
Date of Test : 11-09-2018 to 27-09-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : BFN Plant B

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	10.8	CPCB Guidelines	400.00
2	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
3	Carbon Monoxide [microgram/m3]	360	IS 5182 (Part 10) : 1999	4000
4	Lead [microgram/m3]	0.37	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
5	Nitrogen Dioxide as NO ₂ [microgram/m3]	16.92	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
6	Ozone [microgram/m3]	BDL(<20)	APHA 1977, Part 819	100.00
7	Suspended Particulate Matter (SPM) [microgram/m3]	208.26	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
8	Particulate Matter (PM _{2.5}) [microgram/m3]	33.96	CPCB Guidelines	60.00
9	Sulphur Dioxide [microgram/m3]	7.97	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
10	Particulate Matter (PM ₁₀) [microgram/m3]	72.38	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
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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Rajesh Maheshwari



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TEST REPORT

Report No. : WW/NABL/680
Job Identification. : WW607/18-19
Date : 29-09-2018
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 : 10-09-2018
Date of Sample Receipt : 11-09-2018
Date of Test : 11-09-2018 to 27-09-2018
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]	27	APHA.2017:2540-D	100
2	Ammonical Nitrogen [mg/l]	10.4	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	20	APHA 2017:5210-B	30
4	Chloride [mg/l]	584.29	APHA 2017 : 4500- CI- B	1000
5	Chemical Oxygen Demand (COD) [mg/l]	85.12	APHA:2017 : 5220-C	250
6	pH	7.01	APHA:2017 : 4500 H+B	5.5 - 9.0
7	Sulphide [mg/l]	BDL(<0.1)	APHA. 2017 : 4500-S2-F	2
8	Total Kjeldahl Nitrogen (TKN) [mg/l]	24.2	APHA 2017 : 4500-Norg B	100
9	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
10	Total Residual Chlorine [mg/l]	BDL(<0.1)	APHA:2017 : 4500-CI B	1.0

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TEST REPORT

Report No N/697
Date 28/09/2018
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 07/09/2018 to 10/09/2018
Date of Sample Receipt 11/09/2018
Date of Test 11/09/2018
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	65.4	56.7
2.	Near Cooler Area	72.7	62.4
3	Near DG Area	70.3	61.2
4	Near Proportioning & HPGR Building	67.3	60.2
5	Near Balling Disk	64.0	56.3

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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Purni Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No.: - N/697)



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TEST REPORT

Report No. : A/1642
Job Identification. : A1283/18-19
Date : 28-09-2018
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 : 07-09-2018
Date of Sample Receipt : 11-09-2018
Date of Test : 11-09-2018 to 27-09-2018
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/m3]	426.47	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Manishwan
Authorized Signatory
(Report No: A/1642)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : A/1643
Job Identification. : A1284/18-19
Date : 28-09-2018
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 : 07-09-2018
Date of Sample Receipt : 11-09-2018
Date of Test : 11-09-2018 to 27-09-2018
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/m3]	454.72	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Rajesh Maheshwari
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TEST REPORT

Report No. :	W/NABL/1122
Job Identification. :	W/1007/18-19
Date :	29-09-2018
Issued To :	M/S Jindal Saw Limited (Pellet Plant) 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 :	10-09-2018
Date of Sample Receipt :	11-09-2018
Date of Test :	11-09-2018 to 29-09-2018
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	7.40	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	64	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]	43.6	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	155	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]	5.83	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	12.65	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	10.3	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]	0.45	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]	70	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]	0.43	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]	40	IS 3025 (Part 40) : 1991	-	-
34	Anionic Surface Detergents	BDL (<0.1)	IS 13428 (Annexure K)	0.2	1.00

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Puran Mal
Puran Mal Vogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1122)



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TEST REPORT

Report No.

W/NABL/1122

Job Identification. :

W/100718-19

Date :

29-09-2018

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 :

10-09-2018

Date of Sample Receipt :

11-09-2018

Date of Test :

11-09-2018 to 29-09-2018

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	-	-

Notes :-

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Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/1122)



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TEST REPORT

Report No. : W/NABL/1124
Job Identification. : W1009/18-19
Date : 08-10-2018
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 10-09-2018
Date of Sample Receipt : 11-09-2018
Date of Test : 11-09-2018 to 29-09-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Borewell Water Near Balling Disc

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 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.02	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	580	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	382.86	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1918	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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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
10	Calcium [mg/l]	168	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	38.88	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	246.53	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	38.59	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	1.25	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	240	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.001)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.42	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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
28	selenium [mg/l]	BDL(<0.001)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	420	IS 3025 (Part 40) : 1991 RA 2014	-	-
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 RA 2014	0.001	-

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Ruraj
Ruraj Maheshwari
Senior Analyst

Raj
Rajesh Maheshwari
Authorized Signatory
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Raj



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TEST REPORT

Report No. : W/1124
 Job Identification. : W1009/18-19
 Date : 08-10-2018
 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 : Potable and Domestic Water
 Date of Sample Collection/Monitoring : 10-09-2018
 Date of Sample Receipt : 11-09-2018
 Date of Test : 11-09-2018 to 29-09-2018
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Borewell Water Near Balling Disc

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 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not detected	APHA : 2017	-	-

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 Puram Mal Yogi
 Senior Analyst

Rajesh
 Rajesh Maheshwan
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TEST REPORT

Report No. : W/NABL/1123
Job Identification. : W1008/18-19
Date : 29-09-2018
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 : 10-09-2018
Date of Sample Receipt : 11-09-2018
Date of Test : 11-09-2018 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	7.13	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	340	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]	123.52	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	854	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	88	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	29.16	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]	107	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	38.2	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]	0.85	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]	160	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.37	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]	68	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]	220	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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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puren Mal Yogi
Senior Analyst

Rajesh Malleshwari
Authorized Signatory
(Report No: W/NABL/1123)



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. : W/NABL/1123
Job Identification. : W1008/18-19
Date : 29-09-2018
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
Potable and Domestic
Type of Sample : Water
Date of Sample Collection/Monitoring : 10-09-2018
Date of Sample Receipt : 11-09-2018
Date of Test : 11-09-2018 to 29-09-2018
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	-	-

Notes :-

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Rajesh Maheshwan
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