



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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E-mail : teamtesthouse@gmail.com
E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : ST/592

Job Identification. : 4257/17-18

Date : 21-09-2017

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 : Stack Emission Level

Date of Sample Collection/Monitoring : 05-09-2017

Date of Sample Receipt : 12-09-2017

Date of Test : 12-09-2017 to 20-09-2017

Sample Collected By : Parsa Ram Kudi

Point of Collection : Rotary Kiln

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	29.77	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 Vogi
Puran Mal Vogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: ST/592)



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TEST REPORT

Report No. : ST/593
Job Identification. : 4258/17-18
Date : 21-09-2017
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 : Stack Emission Level
Date of Sample Collection/Monitoring : 05-09-2017
Date of Sample Receipt : 12-09-2017
Date of Test : 12-09-2017 to 20-09-2017
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]	18.68	IS 11255 (Part 1):1985 Reaffirmed 2014

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: ST/593)



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TEST REPORT

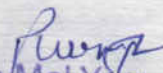
Report No. : ST/595
Job Identification: 4260
Date : 21-09-2017
Issued to M/s. Jindal Saw Limited
Iron Ore Pellet Unit, Khasra No.6711,9696/6711 Villagr -Pur,
District Bhilwara (Rajasthan)
Pellet Plant
Type of Unit
Type of Sample : **DG Stack Monitoring**
Date of Sample Collection/ Monitoring: 05-09-2017
Date of Sample Receipt : 12-09-2017
Date of Test : 12-09-2017 to 2-09-2017
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	0.14	IS:11255 (Part-1)	0.3
2.	Oxides of Nitrogen as NO ₂	g/kw-hr	1.53	IS:11255 (Part-7)	9.2
3.	Carbon monoxide as CO	g/kw-hr	0.68	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	0.32	IS:5182 (Part-21)	1.3

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Puran Mal Yogi
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Rajesh Maheshwan
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(Report No: ST/595)



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TEST REPORT

Report No. : ST/594
Job Identification: 4259
Date : 21-09-2017
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: 05-09-2017
Date of Sample Receipt : 12-09-2017
Date of Test : 12-09-2017 to 20-09-2016
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	0.12	IS:11255 (Part-1)	0.3
2.	Oxides of Nitrogen as NO ₂	g/kw-hr	1.87	IS:11255 (Part-7)	9.2
3.	Carbon monoxide as CO	g/kw-hr	0.53	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	0.13	IS:5182 (Part-21)	1.3

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwar
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TEST REPORT

Report No: A/1420
Job Identification : 4244/17-18
Date: 20/09/2017
Issued to: M/s. Jindal Saw Limited
Iron Ore Pellet Unit, Khasra No.6711,9697/6711
Village -Pur, District Bhilwara (Rajasthan)
Pellet Plant
Type of Unit: Ambient Air Quality Monitoring
Type of Monitoring: Ambient Air Quality Monitoring
Date of Sample Collection/ Monitoring: 04/09/2017
Date of Receipt: 11/09/2017
Date of Test: 11/09/2017 to 20/09/2017
Sample Collected By: Parsa Ram Kudi
Point of Collection: Near Staff Canteen [N 25°19.004' E 74° 32.486']

RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Ammonia [microgram/m ³]	8.5	CPCB Guidelines	400.00
2.	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
3.	Carbon Monoxide [microgram/m ³]	350	IS 5182 (Part 10) : 1999	4000
4.	Lead [microgram/m ³]	0.15	IS 5182 (Part 22) : 2004	1.00
5.	Nitrogen Dioxide [microgram/m ³]	15.63	IS 5182 (Part 6) : 2006	80.00
6.	Ozone [microgram/m ³]	BDL(<2.0)	APHA 1977,Part 819	100.00
7.	Particulate Matter (PM2.5) [microgram/m ³]	26.35	CPCB Guidelines	60.00
8.	Sulphur Dioxide [microgram/m ³]	7.38	IS 5182 (Part 2) : 2001	80.00
9.	Particulate Matter (PM10) [microgram/m ³]	65.22	IS 5182 (Part 23)	100.00
10.	Benzo-alfa-Pyrene [ng/m ³]	BDL(<2.0)	CPCB Guidelines	1.00
11.	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004	6.00
12.	Nickel [ng/m ³]	5.70	IS 5182 (Part 22) : 2004	20.00

Notes: -

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Puran Majhi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No A/1420)



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TEST REPORT

Report No: A/1419
Job Identification : 4243/17-18
Date: 20/09/2017
Issued to: M/s. Jindal Saw Limited
Iron Ore Pellet Unit, Khasra No.6711,9697/6711
Village -Pur, District Bhilwara (Rajasthan)
Type of Unit: Pellet Plant
Type of Monitoring: Ambient Air Quality Monitoring
Date of Sample Collection/ Monitoring: 04/09/2017
Date of Receipt: 11/09/2017
Date of Test: 11/09/2017 to 20/09/2017
Sample Collected By: Parsa Ram Kudi
Point of Collection: Near Tiranga House [N 25°18.959' E 74° 32.321']

RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Ammonia [$\mu\text{g}/\text{m}^3$]	BDL(< 2.0)	CPCB Guidelines	400.00
2.	Benzene [$\mu\text{g}/\text{m}^3$]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
3.	Carbon Monoxide [$\mu\text{g}/\text{m}^3$]	340	IS 5182 (Part 10) : 1999	4000
4.	Lead [$\mu\text{g}/\text{m}^3$]	0.10	IS 5182 (Part 22) : 2004	1.00
5.	Nitrogen Dioxide [$\mu\text{g}/\text{m}^3$]	13.72	IS 5182 (Part 6) : 2006	80.00
6.	Ozone [$\mu\text{g}/\text{m}^3$]	BDL(<2.0)	APHA 1977, Part 819	100.00
7.	Particulate Matter (PM2.5) [$\mu\text{g}/\text{m}^3$]	28.11	CPCB Guidelines	60.00
8.	Sulphur Dioxide [$\mu\text{g}/\text{m}^3$]	7.84	IS 5182 (Part 2) : 2001	80.00
9.	Particulate Matter (PM10) [$\mu\text{g}/\text{m}^3$]	63.84	IS 5182 (Part 23)	100.00
10.	Benzo-alfa-Pyrene [ng/m^3]	BDL(<2.0)	CPCB Guidelines	1.00
11.	Arsenic [ng/m^3]	BDL(<2.0)	IS 5182 (Part 22) : 2004	6.00
12.	Nickel [ng/m^3]	5.8	IS 5182 (Part 22) : 2004	20.00

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
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(Report No A/1419)



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TEST REPORT

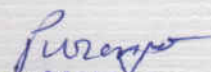
Report No: A/1421
Job Identification : 4245/17-18
Date: 20/09/2017
Issued to M/s. Jindal Saw Limited
Iron Ore Pellet Unit, Khasra No.6711,9697/6711
Village -Pur, District, Bhilwara (Rajasthan)
Pellet Plant
Type of Unit
Type of Monitoring: Ambient Air Quality Monitoring
Date of Sample Collection/ Monitoring: 04/09/2017
Date of Receipt: 11/09/2017
Date of Test: 11/09/2017 to 20/09/2017
Sample Collected By: Parsa Ram Kudi
Point of Collection Near Switch Yard [N 25°19.444' E 74° 32.608']

RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Ammonia [microgram/m ³]	10.4	CPCB Guidelines	400.00
2.	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
3.	Carbon Monoxide [microgram/m ³]	430	IS 5182 (Part 10) : 1999	4000
4.	Lead [microgram/m ³]	0.20	IS 5182 (Part 22) : 2004	1.00
5.	Nitrogen Dioxide [microgram/m ³]	16.42	IS 5182 (Part 6) : 2006	80.00
6.	Ozone [microgram/m ³]	BDL(<2.0)	APHA 1977, Part 819	100.00
7.	Particulate Matter (PM2.5) [microgram/m ³]	32.61	CPCB Guidelines	60.00
8.	Sulphur Dioxide [microgram/m ³]	8.15	IS 5182 (Part 2) : 2001	80.00
9.	Particulate Matter (PM10) [microgram/m ³]	80.72	IS 5182 (Part 23)	100.00
10.	Benzo-alpha-Pyrene [ng/m ³]	BDL(<2.0)	CPCB Guidelines	1.00
11.	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004	6.00
12.	Nickel [ng/m ³]	12.30	IS 5182 (Part 22) : 2004	20.00

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Purah Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No A/1421)



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TEST REPORT

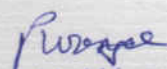
Report No: A/1422
Job Identification : 4246/17-18
Date: 20/09/2017
Issued to: M/s. Jindal Saw Limited
Iron Ore Pellet Unit, Khasra No.6711,9697/6711
Village -Pur, District Bhilwara (Rajasthan)
Type of Unit: Pellet Plant
Type of Monitoring: Ambient Air Quality Monitoring
Date of Sample Collection/ Monitoring: 05/09/2017
Date of Receipt: 11/09/2017
Date of Test: 11/09/2017 to 20/09/2017
Sample Collected By: Parsa Ram Kudi
Point of Collection: Near BFN Plant B [N 25°19.179' E 74° 32.365']


RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Ammonia [microgram/m ³]	13.5	CPCB Guidelines	400.00
2.	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
3.	Carbon Monoxide [microgram/m ³]	370	IS 5182 (Part 10) : 1999	4000
4.	Lead [microgram/m ³]	0.24	IS 5182 (Part 22) : 2004	1.00
5.	Nitrogen Dioxide [microgram/m ³]	16.03	IS 5182 (Part 6) : 2006	80.00
6.	Ozone [microgram/m ³]	BDL(<2.0)	APHA 1977,Part 819	100.00
7.	Particulate Matter (PM2.5) [microgram/m ³]	33.26	CPCB Guidelines	60.00
8.	Sulphur Dioxide [microgram/m ³]	8.17	IS 5182 (Part 2) : 2001	80.00
9.	Particulate Matter (PM10) [microgram/m ³]	81.25	IS 5182 (Part 23)	100.00
10.	Benzo-alfa-Pyrene [ng/m ³]	BDL(<2.0)	CPCB Guidelines	1.00
11.	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004	6.00
12.	Nickel [ng/m ³]	12.5	IS 5182 (Part 22) : 2004	20.00

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Puran Mal Yogi
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Rajesh Maheshwar
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(Report No A/1422)



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TEST REPORT

Report No. :	WW/NABL/586
Job Identification. :	4264/17-18
Date :	21-09-2017
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	08-09-2017
Date of Sample Receipt :	12-09-2017
Date of Test :	12-09-2017 to 21-09-2017
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]	21	APHA.2012:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	8.5	APHA 2012:5210-B	30
3	Chemical Oxygen Demand (COD) [mg/l]	20.16	APHA:2012 : 5220-C	250
4	pH	7.38	APHA:2012 : 4500 H+B	5.5-9.0
5	Sulphide [mg/l]	0.46	APHA. 2012 : 4500-S2-F	2
6	Total Kjeldahl Nitrogen (TKN) [mg/l]	10.5	APHA 2012 : 4500-Norg B	100
7	Oil & Grease [mg/l]	3	APHA-2012 :5520-B	10
8	Total Residual Chlorine [mg/l]	0.1	APHA:2012 : 4500-CI-B	1.0
9	Chloride [mg/l]	678	APHA-2012:4500 CI	1000
10	Amonical nitrogen [mg/l]	3.2	APHA-2012:4500 NH3	50

Note:

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Purvi Kant
Senior Analyst

Rajesh Maneshwar
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(Report No: WW/NABL/586)



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TEST REPORT

Report No	N/505
Date	20/09/2017
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	05/09/2017 to 07/09/2017
Date of Sample Receipt	11/09/2017
Date of Test	11/09/2017 to 20/09/2017
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	71.2	63.5
2.	Near Cooler Area	70.5	62.6
3	Near DG Area	68.7	60.4
4	Near Proportioning & HPGR Building	73.2	65.6
5	Near Blending Disc	72.8	64.7

Standard Limits [in dB (A)] Leq:

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

Note: -

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Puran Mal Ogi
Puran Mal Ogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No.: - N/505)



TEAM TEST HOUSE

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



TC-5025

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TEST REPORT

Report No. :	A/1424
Job Identification. :	4255/17-18
Date :	21-09-2017
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 :	Fugitive Emission Quality Monitoring
Date of Sample Collection/Monitoring :	05-09-2017
Date of Sample Receipt :	12-09-2017
Date of Test :	12-09-2017 to 20-09-2017
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]	471.78	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: A/1424)



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TEST REPORT

Report No. : A/1425
Job Identification. : 4256/17-18
Date : 21-09-2017
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 : Fugitive Emission Quality Monitoring
Date of Sample Collection/Monitoring : 05-09-2017
Date of Sample Receipt : 12-09-2017
Date of Test : 12-09-2017 to 20-09-2017
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]	377.47	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: A/1425)



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TEST REPORT

Report No. : W/NABL/777
Job Identification. : 4263/17-18
Date : 21-09-2017
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 08-09-2017
Date of Sample Receipt : 12-09-2017
Date of Test : 12-09-2017 to 21-09-2017
Sample Collected By : Parsa Ram Kudi
Point of Collection : Pur Pond

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.55	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	164	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	66.5	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	365	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	40	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	15.55	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	116.25	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	2.77	IS 3025 (Part 34) : 1988

Note:

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Parsa



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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.21	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	52	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.15	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
30	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
32	Calcium Hardness [mg/l]	100	IS 3025 (Part 40) : 1991
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992

Notes :-

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Purush Mal Vogi
Purush Mal Vogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/777)



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TEST REPORT

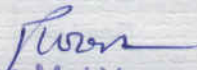
Report No. : W/777
Job Identification. : 4263/17-18
Date : 21-09-2017
Issued To : M/S Jindal Saw Limited (Pellet Plant)
Iron Ore Pellet Unit, Khasra No. 6711, 9697/6711 Village Pur P.O. Pur
Tehsil Bhilwara
District : Bhilwara- 311802 (Rajasthan)
Type of Unit : Pellet unit
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 08-09-2017
Date of Sample Receipt : 12-09-2017
Date of Test : 12-09-2017 to 21-09-2017
Sample Collected By : Parsa Ram Kudi
Point of Collection : Pur Pond


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
2	Pesticides [mg/l]	not detected	APHA : 2012

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Puran Mal Yogi
Senior Analyst


Rajesh Mishra
Authorized Signatory
(Report No: W/777)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/775
Job Identification. : 4261/17-18
Date : 21-09-2017
Issued To : M/S Jindal Saw Limited
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 : 08-09-2017
Date of Sample Receipt : 12-09-2017
Date of Test : 12-09-2017 to 20-09-2017
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	7.17	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	68	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]	51.3	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	149	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]	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]	5.00	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	7.72	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page...

Raj



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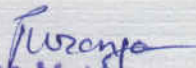
Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.
Ph.: 94602-22039, 94602-22049

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]	BDL (< 0.1)	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988	0.01	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]	40	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]	0.32	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	Anionic Surface Detergents as MBA's [mg/l]	BDL (<0.1)	IS 13428 (Annexure K)	0.2	1.00

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Purab Malhotra
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/775)