



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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ISO 9001:2008

OHSAS 18001:2007

JDA/UDH

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TEST REPORT

Report No. :

ST/1573

Job Identification. :

ULR-TC502519500000277

Date :

26-03-2019

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 : 12-03-2019

Date of Sample Receipt : 15-03-2019

Date of Test : 15-03-2019 to 26-03-2019

Sample Collected By : Parsaram Kudi

Point of Collection : Rotary Kiln Stack [74°32'24"N 25°19'06"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	34.52	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Puran Mai Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: ST/1573)



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TEST REPORT

Report No. : ST/1574
Job Identification : ULR-TC502519500000278
Date : 26-03-2019
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 : 12-03-2019
Date of Sample Receipt : 15-03-2019
Date of Test : 15-03-2019 to 26-03-2019
Sample Collected By : Parsaram Kudi
Point of Collection : Coal Mil Stack [74°32'28"N 25°19'07"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	35.41	IS 11255 (Part 1):1985 Reaffirmed 2014

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Puran Maurya
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: ST/1574)



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TEST REPORT

Report No. : ST/1575
Job Identification: ULR-TC502519500000279
Date : 26-03-2019
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: 14-03-2019
Date of Sample Receipt : 15-03-2019
Date of Test : 15-03-2019 to 26-03-2019
Sample Collected by : Parsaram Kudi
Point of Collection : D.G. Set 750 KVA (Kirloskar) [24°32'28"N 25°19'03"E]

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	2.42	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	0.28	IS:5182 (Part-21)	1.3

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: ST/1575)



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TEST REPORT

Report No. : ST/1576
Job Identification: ULR-TC502519500000280
Date : 26-03-2019
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: 14-03-2019
Date of Sample Receipt : 15-03-2019
Date of Test : 15-03-2019 to 26-03-2019
Sample Collected by : Parsaram 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	1.96	IS:11255 (Part-7)	9.2
3.	Carbon monoxide as CO	g/kw-hr	0.74	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	0.22	IS:5182 (Part-21)	1.3

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Puran Maurya
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: ST/1576)



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TEST REPORT

Report No. :

A/3575

Job Identification. :

ULR-TC502519400000720

Date :

26-03-2019

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 :

10-03-2019

Date of Sample Receipt :

15-03-2019

Date of Test :

15-03-2019 to 26-03-2019

Sample Collected By :

Parsa Ram Kudi

Point of Collection :

Staff Canteen Area [74°32'30"N 25°19'00"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
3	Carbon Monoxide [microgram/m3]	350	IS 5182 (Part 10) : 1999	4000
4	Lead [microgram/m3]	0.31	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
5	Nitrogen Dioxide as NO2 [microgram/m3]	16.14	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
6	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977, Part 819	100.00
7	Suspended Particulate Matter (SPM) [microgram/m3]	299.47	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
8	Particulate Matter (PM2.5) [microgram/m3]	30.76	CPCB Guidelines	60.00
9	Sulphur Dioxide [microgram/m3]	5.41	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
10	Particulate Matter (PM 10) [microgram/m3]	87.4	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]	3.3	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/3573
Job Identification. : ULR-TC502519400000718
Date : 26-03-2019
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 : 10-03-2019
Date of Sample Receipt : 15-03-2019
Date of Test : 15-03-2019 to 26-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Tiranga House [74°32'18"N 25°18'57"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
3	Carbon Monoxide [microgram/m3]	290	IS 5182 (Part 10) : 1999	4000
4	Lead [microgram/m3]	0.35	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
5	Nitrogen Dioxide as NO2 [microgram/m3]	14.51	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
6	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977, Part 819	100.00
7	Suspended Particulate Matter (SPM) [microgram/m3]	240.54	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
8	Particulate Matter (PM2.5) [microgram/m3]	34.48	CPCB Guidelines	60.00
9	Sulphur Dioxide [microgram/m3]	7.12	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
10	Particulate Matter (PM 10) [microgram/m3]	74.72	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]	8.5	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Rajesh Maheshwan



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TEST REPORT

Report No.: A/3574
Job Identification.: ULR-TC502519400000719
Date: 26-03-2019
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 : 09-03-2019
Date of Sample Receipt : 15-03-2019
Date of Test : 15-03-2019 to 26-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Switchyard Area [74°32'36"N 25°19'27"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
3	Carbon Monoxide [microgram/m3]	320	IS 5182 (Part 10) : 1999	4000
4	Lead [microgram/m3]	0.21	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
5	Nitrogen Dioxide as NO2 [microgram/m3]	20.16	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
6	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977, Part 819	100.00
7	Suspended Particulate Matter (SPM) [microgram/m3]	312.73	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
8	Particulate Matter (PM2.5) [microgram/m3]	24.96	CPCB Guidelines	60.00
9	Sulphur Dioxide [microgram/m3]	6.61	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
10	Particulate Matter (PM 10) [microgram/m3]	82.97	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]	6	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Rajesh Maheshwari



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TEST REPORT

Report No. : A/3576
Job Identification. : ULR-TC502519400000721
Date : 26-03-2019
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 : 10-03-2019
Date of Sample Receipt : 15-03-2019
Date of Test : 15-03-2019 to 26-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near BFN Plant B [74°32'21"N 25°19'10"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL (<10.0)	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]	0.09	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
5	Nitrogen Dioxide as NO ₂ [microgram/m ³]	16.3	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
6	Ozone [microgram/m ³]	BDL (<20.0)	APHA 1977, Part 819	100.00
7	Suspended Particulate Matter (SPM) [microgram/m ³]	230.95	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
8	Particulate Matter (PM _{2.5}) [microgram/m ³]	32.15	CPCB Guidelines	60.00
9	Sulphur Dioxide [microgram/m ³]	5.25	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
10	Particulate Matter (PM ₁₀) [microgram/m ³]	77.41	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
11	Benzo-alfa- Pyrene [ng/m ³]	BDL (<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m ³]	BDL (<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m ³]	6.7	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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TEST REPORT

Report No. : WW/NABL/1400
Job Identification : ULR-TC502519200000366
Date : 26-03-2019
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 : 13-03-2019
Date of Sample Receipt : 15-03-2019
Date of Test : 15-03-2019 to 26-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : 15 KLD STP Outlet [74°32'24"N 25°18'57"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	62	APHA.2017:2540-D	100
2	Ammonical Nitrogen [mg/l]	7.56	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	10.8	APHA 2017:5210-B	30
4	Chloride [mg/l]	788.55	APHA 2017 : 4500- Cl- B	-
5	Chemical Oxygen Demand (COD) [mg/l]	69.22	APHA:2017 : 5220-C	250
6	pH	7.68	APHA:2017 : 4500 H+B	5.5 - 9.0
7	Sulphide [mg/l]	0.62	APHA. 2017 : 4500-S2-F	2
8	Total Kjeldahl Nitrogen (TKN) [mg/l]	14.74	APHA 2017 : 4500-Norg B	100
9	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
10	Total Residual Chlorine [mg/l]	BDL(<0.1)	APHA:2017 : 4500-Cl B	1.0

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Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: WW/NABL/1400)



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Report No. N/1775
Date 26/03/2019
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 11/03/2019
Date of Sample Receipt 15/03/2019
Date of Test 15/03/2019
Sample Collected by Parsaram 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 [74*32'25"N 25*19'08"E]	68.3	60.3
2.	Near Cooler Area [74*32'30"N 25*19'07"E]	70.3	64.5
3	Near DG Area [74*32'27"N 25*19'03"E]	65.7	56.4
4	Near Proportioning & HPGR Building [74*32'24"N 25*19'02"E]	66.2	58.2
5	Near Balling Disk [74*32'24"N 25*19'02"E]	65.2	58.0

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 Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No.: - N/1775)



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TEST REPORT

Report No. : A/3577
Job Identification : ULR-TC502519400000722
Date : 26-03-2019
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 : 13-03-2019
Date of Sample Receipt : 15-03-2019
Date of Test : 15-03-2019 to 26-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Bentonite Grinding Area [74°32'24"N 25°19'01"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	390.12	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
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(Report No: A/3577)



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TEST REPORT

Report No. : A/3578
Job Identification. : ULR-TC502519400000723
Date : 26-03-2019
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 : 13-03-2019
Date of Sample Receipt : 15-03-2019
Date of Test : 15-03-2019 to 26-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Coal Pulverize Area [74°32'27"N 25°19'06"E]

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	472.08	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Puran Mat Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: A/3578)



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TEST REPORT

Report No. : W/NABL/2218
Job Identification : ULR-TC502519100000471
Date : 26-03-2019
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 : 13-03-2019
Date of Sample Receipt : 15-03-2019
Date of Test : 15-03-2019 to 26-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Borewell 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 5.0	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	6.94	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	392	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]	271.72	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1468	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

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Parsa



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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	118.4	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	23.33	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]	260.00	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	43.60	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.85	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]	368	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	-
23	Boron [mg/l]	0.40	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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Rajeev



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RESULTS

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

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(<0.01)	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]	296	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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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/2218)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : WW/2218
Job Identification : ULR-TC502519100000471
Date : 26-03-2019
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 : 13-03-2019
Date of Sample Receipt : 15-03-2019
Date of Test : 15-03-2019 to 26-03-2019
Sample Collected By : Parsa Ram Kudi
Point of Collection : Borewell 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 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Puran Maheshwari
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: WW/2218)



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TEST REPORT

Report No. :	W/NABL/2217
Job Identification. :	ULR-TC502519100000470
Date :	26-03-2019
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 :	13-03-2019
Date of Sample Receipt :	15-03-2019
Date of Test :	15-03-2019 to 26-03-2019
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Pur Pond

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5.0	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	8.20	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	348	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]	241.32	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1099	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

Continue to next page...

Rajeev



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Website : www.teamtesthouse.com

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	102.4	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	22.36	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]	136.87	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	17.59	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.73	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]	348	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.41	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

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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(<0.01)	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]	256	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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Puran Waj
Puran Waj
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/2217)



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TEST REPORT

Report No. :

W/2217

Job Identification. :

ULR-TC502519100000470

Date :

26-03-2019

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 : 13-03-2019

Date of Sample Receipt : 15-03-2019

Date of Test : 15-03-2019 to 26-03-2019

Sample Collected By :

Parsa Ram Kudi

Point of Collection :

Pur Pond

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Puran Mal Yogi
Senior Analyst


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(Report No: W/2217)