



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 9001:2015 OHSAS 18001:2007 JDA/UDH

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Website : www.teamtesthouse.com

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E-mail : teamtesthouse@gmail.com
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TEST REPORT

Report No./ULR No. :	TC502519400002450P	Date :	12-09-2019
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 :	03-09-2019
Point of Collection :	Nr Staff Canteen Area [74°32'30"N 25°18'60"E]	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 12-09-2019	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

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]	310	IS 5182 (Part 10) : 1999	4000
4	Lead [microgram/m ³]	0.21	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
5	Nitrogen Dioxide as NO ₂ [microgram/m ³]	12.45	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
6	Ozone [microgram/m ³]	BDL (<20.0)	APHA 1977,Part 819	100.00

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E-mail : director@teamtesthouse.com

Website : www.teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Standard
7	Suspended Particulate Matter (SPM) [microgram/m ³]	148.72	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
8	Particulate Matter (PM _{2.5}) [microgram/m ³]	26.79	CPCB Guidelines	60.00
9	Sulphur Dioxide [microgram/m ³]	7.75	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
10	Particulate Matter (PM ₁₀) [microgram/m ³]	67.87	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]	2.4	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

- # Parameter No. 1,3,4,5,6,7,8,9,10,12,13 covered under NABL scope and Parameter No. 2,11 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.


Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: TC502519400002450P)



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TEST REPORT

Report No./ULR No. :	TC502519400002448P	Date :	12-09-2019
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 :	02-09-2019
Point of Collection :	Tiranga House [74°32'18"N 25°18'57"E]	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 12-09-2019	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL (<20.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	340	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.22	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	10.87	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	166.19	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Reference Standard
7	Particulate Matter (PM2.5) [microgram/m3]	27.86	CPCB Guidelines	National Ambient Air Quality Standard, 2009
8	Sulphur Dioxide [microgram/m3]	5.06	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	51.53	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]	2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Purni Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519400002448P)



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TEST REPORT

Report No./ULR No. :	TC502519400002449P	Date :	12-09-2019
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 :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	05-09-2019
Point of Collection :	Switch yard Station [74°32'36"N 25°19'27"E]	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 12-09-2019	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

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]	350	IS 5182 (Part 10) : 1999	4000
4	Lead [microgram/m ³]	0.24	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
5	Nitrogen Dioxide as NO ₂ [microgram/m ³]	11.71	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
6	Ozone [microgram/m ³]	BDL (<20.0)	APHA 1977,Part 819	100.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Criteria
7	Suspended Particulate Matter (SPM) [microgram/m ³]	155.46	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
8	Particulate Matter (PM _{2.5}) [microgram/m ³]	11.62	CPCB Guidelines	60.00
9	Sulphur Dioxide [microgram/m ³]	6.98	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
10	Particulate Matter (PM ₁₀) [microgram/m ³]	72.37	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]	1.7	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory

(Report No: TC502519400002449P)



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TEST REPORT

Report No./ULR No. :	TC502519400002451P	Date :	12-09-2019
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 :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	02-09-2019
Point of Collection :	Near BFN Plant B [74°32'21"N 25°19'10"E]	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 12-09-2019	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

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	Carbon Monoxide [microgram/m3]	350	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.25	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	10.98	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	151.13	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500

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RESULTS

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E-mail : director@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Standard
7	Particulate Matter (PM2.5) [microgram/m3]	26.17	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.89	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	58.44	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]	2.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,12,13 covered under NABL scope and Parameter No. 10,11 does not cover under NABL scope
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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwar
Authorized Signatory
(Report No: TC502519400002451P)



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TEST REPORT

Report No./ULR No. :	TC502519500001157F	Date :	21-09-2019
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 :	09-09-2019
Point of Collection :	Rotry Kiln Stack	Date of Receipt :	10-09-2019
Date of Test/Analysis :	10-09-2019 to 21-09-2019	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	25.67	IS 11255 (Part 1):1985 Reaffirmed 2014	50

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
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Puran Mal Yogi
Senior Analyst


Rakesh Maheshwari
Authorized Signatory

(Report No: TC502519500001157F)



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TEST REPORT

Report No./ULR No.:	TC502519500001158F	Date :	21-09-2019
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 :	09-09-2019
Point of Collection :	Coal Mill Stack [74°32'28"N 25°19'8"E]	Date of Receipt :	10-09-2019
Date of Test/Analysis :	10-09-2019 to 21-09-2019	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	28.71	IS 11255 (Part 1):1985 Reaffirmed 2014	50

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
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Senior Analyst


Rajesh Maheshwari
Authorized Signatory

(Report No: TC502519500001158F)



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TEST REPORT

Report No./ULR No. :	TC502519500001159P	Date :	21-09-2019
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 :	09-09-2019
Point of Collection :	DG Set 750 KVA [74°32'28"N 25°19'12"E]	Date of Receipt :	10-09-2019
Date of Test/Analysis :	10-09-2019 to 21-09-2019	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [g/kw-hr]	0.13	IS 11255 (Part 1):1985 Reaffirmed 2014	0.3
2	Sulphur Dioxide [g/kw-hr]	BDL(<0.02)	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [g/kw-hr]	2.61	IS 11255 (Part 7) :1985 Redfirmed 2012	9.2
4	Carbon monoxide [g/kw-hr]	0.91	IS 5182 (Part 10) : 1999	3.5
5	Hydrocarbon [g/kw-hr]	0.25	IS 5182 (Part 10) : 1999	1.3

Notes :-

- # Parameter No. 1,2,3,4 covered under NABL scope and Parameter No. 5 does not cover under NABL scope
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Purandhar Yogi
Purandhar Yogi

Senior Analyst

Rajesh Maheshwar
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Authorized Signatory

(Report No: TC502519500001159P)



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TEST REPORT

Report No./ULR No. :	TC502519500001160P	Date :	21-09-2019
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 :	09-09-2019
Point of Collection :	DG Set 563 KVA [74°32'27"N 25°19'05"E]	Date of Receipt :	10-09-2019
Date of Test/Analysis :	10-09-2019 to 21-09-2019	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [g/kw-hr]	0.11	IS 11255 (Part 1):1985 Reaffirmed 2014	0.3
2	Sulphur Dioxide [g/kw-hr]	BDL(<0.02)	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [g/kw-hr]	2.77	IS 11255 (Part 7) :1985 Redffirmed 2012	9.2
4	Carbon monoxide [g/kw-hr]	0.89	IS 5182 (Part 10) : 1999	3.5
5	Hydrocarbon [g/kw-hr]	0.20	IS 5182 (Part 10) : 1999	1.3

Notes :-

- # Parameter No. 1,2,3,4 covered under NABL scope and Parameter No. 5 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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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


Rakesh Maheshwari
Authorized Signatory

(Report No: TC502519500001160P)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502519200001238F	Date :	12-09-2019
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 :	07-09-2019
Point of Collection :	15 KLD STP Outlet [74°32'24"N 25°18'58"E]	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 12-09-2019	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	26	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	8.26	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	11	APHA 2017:5210-B	30
4	Chloride as Cl [mg/l]	742.46	APHA 2017 : 4500- Cl- B	-
5	Chemical Oxygen Demand (COD) [mg/l]	32.03	APHA:2017 : 5220-C	250
6	pH	7.32	APHA:2017 : 4500 H+B	5.5 - 9.0
7	Sulphide as S [mg/l]	BDL(<0.1)	APHA. 2017 : 4500-S2-F	2
8	Total Kjeldahl Nitrogen (TKN) [mg/l]	20.56	APHA 2017 : 4500-Norg B	100
9	Oil & Grease [mg/l]	6	APHA 2017 : 5520 B	10
10	Total Residual Chlorine [mg/l]	0.2	APHA:2017 : 4500-Cl B	1.0

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
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Puran Maurya
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519200001238F)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502519400002498F	Date :	12-09-2019
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 :	09-09-2019
Point of Collection :	Bentonite Grinding Storage [74°32'23"N 25°19'2"E]	Date of Receipt :	11-09-2019
Date of Test/Analysis :	11-09-2019 to 12-09-2019	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	324.66	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
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Puran Mal Yogi

Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502519400002498F)



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TEST REPORT

Report No./ULR No. :	TC502519400002499F	Date :	12-09-2019
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 :	10-09-2019
Point of Collection :	Coal Pulverize Area [74°32'27"N 25°19'07"E]	Date of Receipt :	11-09-2019
Date of Test/Analysis :	11-09-2019 to 12-09-2019	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	373.92	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
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(Report No: TC502519400002499F)



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TEST REPORT

Report No./ULR No. :	TC502519100001526P	Date :	05-10-2019
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 :	07-09-2019
Point of Collection :	Bore well Near Balling Disc Building [74°32'26"N 25°19'6"E]	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 21-09-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

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	7.15	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	560	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]	429.87	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00

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
9	Total Dissolved Solids [mg/l]	1734	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	124	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	60.75	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]	245.12	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	34.82	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	1.22	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]	220	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]	0.38	IS 13428 (Annexure H)	0.5	1.0
24	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
25	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-

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
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
28	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
29	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
30	Calcium Hardness [mg/l]	310	IS 3025 (Part 40) : 1991 RA 2014	-	-
31	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-
32	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
33	Selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
35	Total Coliform [MPN/100ml]	BDL	IS 5401(Part-2):2012	Shall not be	-
36	E. Coli [MPN/100ml]	BDL	IS 5887 (Part-1): 1976 RA 2013	Detectble in any 100 ml sample	-

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,32,33,34 covered under NABL scope and Parameter No. 27,31 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519100001526)



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TEST REPORT

Report no./ULR No. : TC502518100001509
 Date : 21-09-2019
 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 Plant
 Type of Sample : Potable and Domestic Water
 Date of Sample Collection/Monitoring : 07-09-2019
 Date of Sample Receipt : 08-09-2019
 Date of Test : 08-09-2019 to 21-09-2019
 Sample Collected By : Parsaram 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 RA 2017
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017
5	pH	7.06	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	88	IS 3025 (Part 21) : 1983 RA 2014
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014
8	Chloride [mg/l]	27.99	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	218	IS 3025 (Part 16) : 1984 RA 2017

Note:

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E-mail : director@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	28.8	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	3.89	IS 3025 (Part 46) : 1994 RA 2014
12	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2014
13	Manganese [mg/l]	BDL (<0.01)	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	32.45	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	5.11	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	0.54	IS 3025 (Part 60) : 2008 RA 2013
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2014
21	Alkalinity - T [mg/l]	68	IS 3025 (Part 23) : 1986 RA 2014
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014
23	Boron [mg/l]	0.44	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
26	Suspended Solids [mg/l]	28	IS 3025 (part 15) : 1984 RA 2014
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
33	Calcium Hardness [mg/l]	72	IS 3025 (Part 40) : 1991 RA 2014
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
35	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014
36	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014
37	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B
38	Pesticides [mg/l]	Not Detected	APHA 2017

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Puran Mai Yogi
 Senior Analyst


Rajesh Maheshwari
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 (Report No: TC502519100001509)



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



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TEST REPORT

Report No./ULR No. :	TC502519600001707F	Date :	12-09-2019
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 Noise Level Monitoring	Date of Sample Collection/Monitoring :	04-09-2019
Point of Collection :	Near Proportioning & HPGR Building [74°33'1"N 25°19'51"E]	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 12-09-2019	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	67.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.8	IS 9989	70

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 Maheshwari
Authorized Signatory
(Report No: TC502519600001707F)



TEAM TEST HOUSE

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



TC-5025

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

NABL RSPCB ISO 9001:2015 OHSAS 18001:2007 JDA/UDH

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TEST REPORT

Report No./ULR No. :	TC502519600001708F	Date :	12-09-2019
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 Noise Level Monitoring	Date of Sample Collection/Monitoring :	04-09-2019
Point of Collection :	Near Balling Disc Building [74°32'24"N 25°19'2"E]	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 12-09-2019	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	66.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	57.9	IS 9989	70

Notes :-

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Senior Analyst

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TEST REPORT

Report No./ULR No. :	TC502519600001706F	Date :	12-09-2019
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 Noise Level Monitoring	Date of Sample Collection/Monitoring :	04-09-2019
Point of Collection :	Near D.G. Room [74°32'27"N 25°19'03"E]	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 12-09-2019	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.8	IS 9989	70

Notes :-

- # Parameter No. 1,2 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
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(Report No: TC502519600001706F)



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TEST REPORT

Report No./ULR No. :	TC502519600001705F	Date :	12-09-2019
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 Noise Level Monitoring	Date of Sample Collection/Monitoring :	04-09-2019
Point of Collection :	Near Cooler Area [74*32'29"N 25*19'7"E]	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 12-09-2019	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	71.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	61.0	IS 9989	70

Notes :-

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Purnima Yogi

Senior Analyst

Rajesh Maheshwar

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TEST REPORT

Report No./ULR No. :	TC502519600001704F	Date :	12-09-2019
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 Noise Level Monitoring	Date of Sample Collection/Monitoring :	04-09-2019
Point of Collection :	Near Nitrogen Plant [74°32'24"N 25°19'8"E]	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 12-09-2019	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	68.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	60.5	IS 9989	70

Notes :-

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Puran Mal Yogi
Senior Analyst

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(Report No: TC502519600001704F)