



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. : A/2099
Job Identification : 3308
Date : 08-11-2014
issued To : M/s Jindal Saw Limited.
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711 Near Tiranga Hills Village Pur
Tehsil & District Bhilwara - 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 09-10-2014
Date of Sample Receipt : 13-10-2014
Date of Test : 13-10-2014 to 07-11-2014
Sample Collected By : Rakesh Sharma
Point of Collection : Near Suras Pit (Mining Face)


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Permissible limit National Ambient Air Quality Standard (NAAQ) Zone II
1	Carbon Monoxide [microgram/m ³]	190	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	17.84	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	320.26	IS 5182 (Part 4) : 1999	400
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	32.14	CPCB Guidelines	100.00
5	Sulphur Dioxide [microgram/m ³]	6.21	IS 5182 (Part 2) : 2004	100.00
6	Particulate Matter (PM 10) [microgram/m ³]	83.66	IS 5182 (Part 23)	100.00

Notes -

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


(Rajesh Maheshwari)
Technical Manager


K N Mukhopadhyay
Authorized Signatory
(Report No. A/2099)



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TEST REPORT


Report No. : A/2100
Job Identification : 3309
Date : 08-11-2014
Issued To : M/s Jindal Saw Limited.
Dhedwas Iron Ore Copper & Associated Minerals Mine - Area No.
9697/6711 Near Tiranga Hills Village: Pur.
Tehsil & District Bhilwara - 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 09-10-2014
Date of Sample Receipt : 13-10-2014
Date of Test : 13-10-2014 to 07-11-2014
Sample Collected By : Rakesh Sharma
Point of Collection : Samodi village


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limit Value (National Ambient Air Quality Standard)
1	Carbon Monoxide [microgram/m3]	150	IS 5182 (Part 10) : 1994	40.00
2	Nitrogen Dioxide as NO2 [microgram/m3]	9.79	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	212.06	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM2.5) [microgram/m3]	22.99	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	5.16	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	60.79	IS 5182 (Part 23)	100.00

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(Rajesh Maheshwari)
Technical Manager


K.N. Maheshwari
Authorized Signatory
(Report No. WT/100)



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TEST REPORT


Report No.: A/2101
Job Identification : 3310
Date : 08-11-2014
Issued To : M/s Jindal Saw Limited.
Dhedwas Iron Ore Copper & Associated Minerals Mines Area No. 9697/6711 Near Tiranga Hills Village: Pur.
Tehsil & District Bhilwara - 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 09-10-2014
Date of Sample Receipt : 13-10-2014
Date of Test : 13-10-2014 to 07-11-2014
Sample Collected By : Rakesh Sharma
Point of Collection : Dhulkhera


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limit as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	310	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	17.13	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	334.78	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM2.5) [microgram/m3]	30.55	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	8.75	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	70.1	IS 5182 (Part 23)	100.00

Notes :-

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(Rajesh Maheshwari)
Technical Manager


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TEST REPORT

Report No. : A/2102
Job Identification : 3311
Date : 08-11-2014
Issued To : M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No:
9697/6711 Near Tiranga Hills Village: Pur.
Tehsil & District Bhilwara - 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 10-10-2014
Date of Sample Receipt : 13-10-2014
Date of Test : 13-10-2014 to 07-11-2014
Sample Collected By : Rakesh Sharma
Point of Collection : Tiranga Pit (Mining Face)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	220	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.4	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	266.24	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	31.41	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	7.14	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	77.4	IS 5182 (Part 23)	100.00

Notes -

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Rajesh

(Rajesh Maheshwari)
Technical Manager

K N Mukhopadhyay

K N Mukhopadhyay
Authorized Signatory
(Report No: A/2102)



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TEST REPORT


Report No: A/2103
Job Identification: 3624
Date: 08-11-2014
Issued To: M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711 Near Tiranga Hills Village: Pur.
Tehsil & District Bhilwara - 311802 (Rajasthan)
Type of Unit: Mines
Type of Sample: Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring: 29-10-2014
Date of Sample Receipt: 01-11-2014
Date of Test: 01-11-2014 to 08-11-2014
Sample Collected By: Darwesh Kumar
Point of Collection: Tiranga Pit (Mining Face)

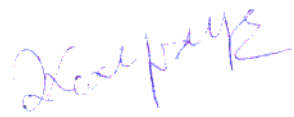
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	250	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.07	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	300.57	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	25.95	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	8.06	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	87.38	IS 5182 (Part 23)	100.00

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(Rajesh Maheshwari)
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TEST REPORT

Report No.: A/2104
Job Identification: 3625
Date: 08-11-2014
Issued To: M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Arap No.
9697/6711 Near Tiranga Hills Village: Pur
Tchsil & District Bhilwara - 311802 (Rajasthan)
Type of Unit: Mines
Type of Sample: Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring: 29-10-2014
Date of Sample Receipt: 01-11-2014
Date of Test: 01-11-2014 to 08-11-2014
Sample Collected By: Darwesh Kumar
Point of Collection: Samodi village

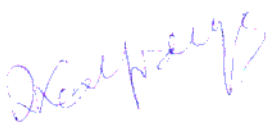
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard 2009
1	Carbon Monoxide [microgram/m3]	190	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.44	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	193.05	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM2.5) [microgram/m3]	16.72	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	5.89	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	49.33	IS 5182 (Part 23)	100.00

Notes -

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TEST REPORT

Report No. : A/2105
Job Identification. : 3626
Date : 08-11-2014
Issued To : M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj, No
9697/6711 Near Tiranga Hills Village: Pur,
Tehsil & District Bhilwara - 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 30-10-2014
Date of Sample Receipt : 01-11-2014
Date of Test : 01-11-2014 to 08-11-2014
Sample Collected By : Darwesh Kumar
Point of Collection : Suras Village (Ratan Lal house-on roof)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	210	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	16.07	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	291.32	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	33.27	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	7.53	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m ³]	76.1	IS 5182 (Part 23)	100.00

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TEST REPORT


Report No. : A/2106
Job Identification. : 3627
Date : 08-11-2014
Issued To : M/s Jindal Saw Limited.
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.
9697/6711 Near Tiranga Hills Village: Pur.
Tehsil & District Bhilwara - 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 30-10-2014
Date of Sample Receipt : 01-11-2014
Date of Test : 01-11-2014 to 08-11-2014
Sample Collected By : Darwesh Kumar
Point of Collection : Dhulkhera


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	230	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	16.28	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	369.26	IS 5182 (Part 4) : 1999	500
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	26.67	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	7.51	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m ³]	77.32	IS 5182 (Part 23)	100.00

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T-1736, T-2276

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TEST REPORT

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Date : -

3320

10-11-2014

Issued To :

M/s Jindal Saw Limited,

Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No
9697/6711 Near Tiranga Hills Village: Pur,

Tehsil & District Bhilwara - 311802 (Rajasthan)

Type of Unit :

Mines

Type of Sample :

Potable and Domestic Water

Date of Sample Collection/Monitoring : 10-10-2014

Date of Sample Receipt : 13-10-2014

Date of Test : 13-10-2014 to 10-11-2014

Sample Collected By : Rakesh Sharma

Point of Collection : Drinking Water B.N.F.

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit as per absence of alternative Source 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	7.56	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	32.35	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]	11.88	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	48	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	11.76	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	0.73	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	0.5

Note:

Continue to next page.



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RESULTS

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		Observed Value	Testing Protocol	10500 : 2012	absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	3.62	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	1.03	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	0.1	IS 3025 (Part 60)	1.00	1.00
17	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL (< 0.01)	IS 3025 (Part 37) : 1988	0.01	0.01
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]	28	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL (< 0.01)	IS 3025 (Part 55) : 2003	0.003	0.1
23	Boron [mg/l]	0.42	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	Not detected	IS 5887 (Part 1)	Shall not be detectable in any 100 ml sample	-
25	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002	Shall not be detectable in any 100 ml	-
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
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

Notes -

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither intended 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.

Rajesh
(Rajesh Maheshwari)
Technical Manager

K N Mukhopadhyay
Authorized Signatory
(Report No: W-N-41-11-12)



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. : W/410
Job Identification : 3320
Date : 10-11-2014
Issued To : M/s Jindal Saw Limited.
Dhedwas Iron Ore Copper & Associated Minerals Mines Area No
9697/6711 Near Tiranga Hills Village: Pur.
Tehsil & District Bhilwara - 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 10-10-2014
Date of Sample Receipt : 13-10-2014
Date of Test : 13-10-2014 to 10-11-2014
Sample Collected By : Rakesh Sharma
Point of Collection : Drinking Water B.N.F.


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable limit) as per IS 10500 : 2012	Standard / Permissible limit as per IS 10500 : 2012
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL (< 0.0001)	APHA 2012 : 6440 B	0.0001	-
2	Calcium Hardness [mg/l]	21.4	IS 3025 (Part 40) : 1991	75.00	200.00
3	Pesticides [mg/l]	Not Detected	APHA : 2012	-	-

Notes :-

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(Rajesh Maheshwari)
Technical Manager


K N Mukhopadhyay
Authorized Signatory
(Report No. W/410)