



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/3040
Job Identification. : 4734
Date : 09-01-2015
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 : 11-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 08-01-2015
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/m ³]	210	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	11.9	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	187.94	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	22.15	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	6.07	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	60.17	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


(Kavita Mathur)
Authorized Signatory
(Report No: A/3040)



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TEST REPORT

Report No. : A/3041
Job Identification. : 4735
Date : 09-01-2015
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 : 11-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 08-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Near Suras 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]	310	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.65	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	282.5	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	38.24	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	8.62	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	73.6	IS 5182 (Part 23)	100.00

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(Rajesh Maheshwari)
Technical Manager


(Kavita Mathur)
Authorized Signatory
(Report No: A/3041)



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TEST REPORT

Report No. : A/3042
Job Identification. : 4736
Date : 09-01-2015
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 : 11-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 08-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Dhulkhera Village (Prabhu Lal Carpenter)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	160	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.01	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	154.6	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	19.49	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	7.57	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	63.8	IS 5182 (Part 23)	100.00

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(Rajesh Maheshwari)
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TEST REPORT

Report No. : A/3043
Job Identification. : 4737
Date : 09-01-2015
Issued To : M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji 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 : 12-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 08-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Dariba Village (Hariram House)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	180	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	12.4	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	231.88	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	25.54	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	8.39	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	70.31	IS 5182 (Part 23)	100.00

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TEST REPORT

Report No. : A/3044
Job Identification. : 4738
Date : 09-01-2015
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 : 12-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 08-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Kanoli Village (Kuldeep singh 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]	190	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	9.19	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	159.87	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	22.08	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	7.71	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	66.79	IS 5182 (Part 23)	100.00

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TEST REPORT


Report No. : A/3045
Job Identification. : 4739
Date : 09-01-2015
Issued To : M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji 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 : 13-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 08-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Gandhi sagar village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	150	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	9.96	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	204.94	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	28.26	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	6.83	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	57.33	IS 5182 (Part 23)	100.00

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TEST REPORT


Report No. : A/3046
Job Identification. : 4740
Date : 09-01-2015
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 : 13-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 08-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Near PMS Building

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	330	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	22.59	IS 5182 (Part 6) : 2006	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	34.33	CPCB Guidelines	60.00
4	Sulphur Dioxide [microgram/m3]	7.62	IS 5182 (Part 2) : 2001	80.00
5	Particulate Matter (PM 10) [microgram/m3]	74.57	IS 5182 (Part 23)	100.00

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TEST REPORT

Report No. : A/3047
Job Identification. : 4741
Date : 09-01-2015
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 : 13-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 08-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Mines Workshop (Near CIL Camp)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	320	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.07	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	285.58	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	27.58	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	8.8	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	77.7	IS 5182 (Part 23)	100.00

Notes :-

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TEST REPORT


Report No. : A/3048
Job Identification. : 4742
Date : 09-01-2015
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 : 13-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 08-01-2015
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]	360	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.33	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	376.02	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	38.81	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	7.76	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	80.14	IS 5182 (Part 23)	100.00

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TEST REPORT

Report No. : A/3049
Job Identification. : 4743
Date : 09-01-2015
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 : 14-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 08-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Pur Village (Ram Lal House)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	190	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.42	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	173	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	21.98	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	8.97	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	56.7	IS 5182 (Part 23)	100.00

Notes :-

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(Rajesh Maheshwari)
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(Report No: A/3049)



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TEST REPORT

Report No. : A/3096
Job Identification. : 5213
Date : 13-01-2015
Issued To : M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji 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 : 31-12-2014
Date of Sample Receipt : 01-01-2015
Date of Test : 01-01-2015 to 08-01-2015
Sample Collected By : Laxmi chand
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/m3]	380	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	18.63	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	329.84	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	35.7	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	10.22	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	80.15	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
(Rajesh Maheshwari)
Technical Manager

Kavita Mathur
(Kavita Mathur)
Authorized Signatory
(Report No: A/3096)



TEAM TEST HOUSE

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

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TEST REPORT

Report No. : A/3097
Job Identification. : 5214
Date : 13-01-2015
Issued To : M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai 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 : 31-12-2014
Date of Sample Receipt : 01-01-2015
Date of Test : 01-01-2015 to 08-01-2015
Sample Collected By : Laxmi chand
Point of Collection : Near Suras 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]	340	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.92	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	348.89	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	27.78	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	10.85	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	83.08	IS 5182 (Part 23)	100.00

Notes :-

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Rajesh
(Rajesh Maheshwari)
Technical Manager

Kavita Mathur
(Kavita Mathur)
Authorized Signatory
(Report No: A/3097)



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TEST REPORT

Report No. : A/3098
Job Identification. : 5215
Date : 13-01-2015
Issued To : M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji 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 : 31-12-2014
Date of Sample Receipt : 01-01-2015
Date of Test : 01-01-2015 to 08-01-2015
Sample Collected By : Laxmi chand
Point of Collection : Dhulkhera Village (Prabhu Lal Carpenter)

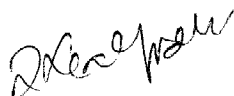
RESULTS

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]	17	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	324.07	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	33.53	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	10.76	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	77.92	IS 5182 (Part 23)	100.00

Notes :-

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(Rajesh Maheshwari)
Technical Manager


(Kavita Mathur)
Authorized Signatory
(Report No: A/3098)



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TEST REPORT

Report No. : A/3099
Job Identification. : 5216
Date : 13-01-2015
Issued To : M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai 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 : 30-12-2014
Date of Sample Receipt : 01-01-2015
Date of Test : 01-01-2015 to 08-01-2015
Sample Collected By : Laxmi chand
Point of Collection : Samodi Village (Near Hanuman Ji Ka Mandir)

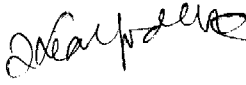
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	170	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.32	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	183.96	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	27.92	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m ³]	6.35	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	68.93	IS 5182 (Part 23)	100.00

Notes :-

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(Rajesh Maheshwari)
Technical Manager


✓ (Kavita Mathur)
Authorized Signatory
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TEST REPORT

Report No. : W/NABL/542
Job Identification. : 4732
Date : 09-01-2015
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 17-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 09-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Dhulkhera (Handpump Rajeev Gandhi Pathsala Front of Dhulkhera Mine Pit)

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	15.0
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	6.99	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	600	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.01	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	148.61	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	927	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	200	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	24.3	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

Note:

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Darwesh



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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
14	Sulphate [mg/l]	74.16	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	20.61	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	0.71	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 (< 0.01)	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]	0.08	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	320	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]	0.47	IS 13428 (Annexure H)	1.00	5.00
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002	Shall not be detectable in any 100 ml sample	-
25	Suspended Solids [mg/l]	5	IS 3025 (part 15) : 1984	-	-
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	-

Notes :-

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Rajesh
(Rajesh Maheshwari)
Technical Manager

Kavita
(Kavita Mathur)
Authorized Signatory
(Report No: W/NABL/542)



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TEST REPORT

Report No. : W/NABL/543
Job Identification. : 4733
Date : 09-01-2015
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 17-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 09-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Gandhi sagar village (Tubewell water of Gandhi park)

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	7.88	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	600	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]	520.12	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1935	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	80	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	97.2	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

Note:

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(Signature)



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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
14	Sulphate [mg/l]	115	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	19.68	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	0.88	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 (< 0.01)	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]	0.09	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	584	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]	0.68	IS 13428 (Annexure H)	1.00	5.00
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002	Shall not be detectable in any 100 ml sample	-
25	Suspended Solids [mg/l]	2	IS 3025 (part 15) : 1984	-	-
26	Total Chromium [mg/l]	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	-

Notes :-

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Rajesh
(Rajesh Maheshwari)
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Kavita
(Kavita Mathur)
Authorized Signatory
(Report No: W/NABL/543)



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TEST REPORT

Report No. : W/NABL/547
Job Identification. : 4728
Date : 10-01-2015
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 17-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 09-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Kanoli Village (Govt.Handpump water of Govt. Middle school)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the 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	7.46	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	220	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]	27.86	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	230	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	38.4	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	30.13	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

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Manganese [mg/l]	BDL (< 0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	2.83	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	15.49	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	0.67	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 (< 0.01)	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]	120	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]	0.48	IS 13428 (Annexure H)	1.00	5.00
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002	Absent	-
25	Suspended Solids [mg/l]	4	IS 3025 (part 15) : 1984	-	-
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	-

Notes :-

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

Rajan
(Rajesh Maheshwari)
Technical Manager

Kavita Mathur
(Kavita Mathur)
Authorized Signatory
(Report No: W/NABL/547)



TEAM TEST HOUSE

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



T-1763, T-2276

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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Lab.: G1-584, Sitapura Industrial Area
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Ph.: 94602-22039, 94602-22049
E-mail : teamtesthouse@gmail.com
E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/548
Job Identification. : 4729
Date : 10-01-2015
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 : Potable and Domestic Water
Date of Sample Collection/Monitoring : 17-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 09-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Dariba Village (Govt. Tubewell Water-Aruvedic Dispansary)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the 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]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.30	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	600	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]	185.76	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	943	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	160	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	48.6	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

Note:

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E-mail : teamtesthouse@gmail.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Manganese [mg/l]	BDL (< 0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	129.16	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	4.00	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	0.61	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 (< 0.01)	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]	332	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]	0.75	IS 13428 (Annexure H)	1.00	5.00
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002	Shall not be detectable in any 100 ml sample	-
25	Suspended Solids [mg/l]	5	IS 3025 (part 15) : 1984	-	-
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	-

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
(Rajesh Maheshwari)
Technical Manager

Kavita Mathur
(Kavita Mathur)
Authorized Signatory
(Report No: W/NABL/548)



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



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/549
Job Identification. : 4730
Date : 10-01-2015
Issued To : M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji 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 : 17-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 09-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Samodi Village (Bheel Basti Near Govt. Handpump front Ratan Lal
Yadav Plot)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the 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	7.11	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	500	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]	111.45	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	758	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	136	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	38.88	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

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Manganese [mg/l]	BDL (< 0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	89.16	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	20.14	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	0.56	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 (< 0.01)	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]	0.03	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	256	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]	0.69	IS 13428 (Annexure H)	1.00	5.00
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002	Shall not be detectable in any 100 ml sample	-
25	Suspended Solids [mg/l]	3	IS 3025 (part 15) : 1984	-	-
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	-

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Raj
(Rajesh Maheshwari)
Technical Manager

Kavita Mathur
(Kavita Mathur)
Authorized Signatory
(Report No: W/NABL/549)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/550
Job Identification. : 4731
Date : 10-01-2015
Issued To : M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji 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 : 17-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 09-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Suras Village (Govt. Handpump Near Palki Rani Ka Mandir)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the 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	7.41	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	420	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]	55.73	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	347	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	72	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	58.32	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

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Manganese [mg/l]	BDL (< 0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	6.83	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	13.25	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	0.46	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 (< 0.01)	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]	0.03	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	196	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]	0.63	IS 13428 (Annexure H)	1.00	5.00
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002	Shall not be detectable in any 100 ml sample	-
25	Suspended Solids [mg/l]	6	IS 3025 (part 15) : 1984	-	-
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	-

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Raja
(Rajesh Maheshwari)
Technical Manager

Kavita Mathur
(Kavita Mathur)
Authorized Signatory
(Report No: W/NABL/550)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/545
Job Identification. : 4725
Date : 10-01-2015
Issued To : M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji 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 : 16-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 09-01-2015
Sample Collected By : Darwesh Kumar
Point of Collection : Somodi Pond

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the 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	7.84	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	220	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.08	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	29.72	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	232	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	56	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	19.44	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

Note:

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E-mail : director@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Manganese [mg/l]	BDL (< 0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	8.16	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	1.71	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	0.36	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 (< 0.01)	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]	96	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]	0.94	IS 13428 (Annexure H)	1.00	5.00
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002	Shall not be detectable in any 100 ml sample	-
25	Suspended Solids [mg/l]	2	IS 3025 (part 15) : 1984	-	-
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	-

Notes :-

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Rajesh Maheshwari
(Rajesh Maheshwari)
Technical Manager

Kavita Mathur
(Kavita Mathur)
Authorized Signatory
(Report No: W/NABL/545)



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TEST REPORT

Report No. :	W/NABL/546	
Job Identification. :	4726	
Date :	10-01-2015	
Issued To :	M/s Jindal Saw Limited, Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji 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 :	17-12-2014	
Date of Sample Receipt :	18-12-2014	
Date of Test :	18-12-2014 to 09-01-2015	
Sample Collected By :	Darwesh Kumar	
Point of Collection :	Meja Dam	

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the 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	7.81	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	104	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]	16.72	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	154	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	36.8	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	2.92	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

Note:

Continue to next page...

Darwesh Kumar



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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Manganese [mg/l]	BDL (< 0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	BDL (< 5)	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	1.59	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	0.48	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 (< 0.01)	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]	0.03	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	84	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]	0.62	IS 13428 (Annexure H)	1.00	5.00
24	Total coliform [MPN/100ml]	15183	IS 5401 (Part 2) : 2002	Shall not be detectable in any 100 ml sample	-
25	Suspended Solids [mg/l]	7	IS 3025 (part 15) : 1984	-	-
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	-

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Rajesh
(Rajesh Maheshwari)
Technical Manager

Kavita Mathur
(Kavita Mathur)
Authorized Signatory
(Report No: W/NABL/546)



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E-mail : teamtest@rediffmail.com

TEST REPORT

Report No : W/608
Date : 27/01/2015
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 : Water Level Measurement
Date of Measurement : 15/12/2014
Date of Test : 15/12/2014
Sample Collected By : Mr. Darwesh Kumar

RESULTS

S.No	Location	Water Level in Meters (bgl)
1	Peizometer No.1 (Near Water Processing Tank)	16.2
2	Peizometer No.2 (Gate No.6)	8.1
3	Peizometer No.3 (Suras Pit)	3.4
4	Peizometer No.4 (Suras Pit)	6.1
5	Peizometer No.5 (Dhulkhera Pit)	2.2
6	Peizometer No.6 (Dhulkhera Pit)	8.2

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Rajesh Maheshwari
Technical Manager

K N Mukhopadhyay
Authorized Signatory
(Report No: W/608)



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E-mail : director@teamtesthouse.com

Date :

W/NABL/575

21-01-2015

Issued To :

M/s Jindal Saw Limited,

Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji 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 :

17-12-2014

Date of Sample Receipt :

18-12-2014

Date of Test :

18-12-2014 to 30-12-2014

Sample Collected By :

Darwesh Kumar

Point of Collection :

Piezometer Well No.6 (Dhulkhera Mine)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the 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]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.36	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	365.63	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.03	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	132.64	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	913	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	106.22	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	27.3	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

Note:

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Darwesh



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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	80.68	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	57.36	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.34	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 (< 0.01)	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]	0.05	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	280	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]	0.63	IS 13428 (Annexure H)	0.5	1.0
24	Total coliform [MPN/100ml]	Not detected	IS 5401 (Part 2) : 2002	Shall not be detectable in any 100 ml	-
25	Suspended Solids [mg/l]	15	IS 3025 (part 15) : 1984	-	-
26	Total Chromium [mg/l]	0.02	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	Nickel [mg/l]	BDL (< 0.01)	IS 3025 (Part 54) : 2003	0.02	-

Notes :-

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Rajesh

(Rajesh Maheshwari)
Technical Manager

Kavita

(Kavita Mathur)
Authorized Signatory
(Report No: W/NABL/574)



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E-mail : director@teamtesthouse.com

Report No. :
Date :
Issued To :

W/NABL/580
21-01-2015

M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai 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 : 17-12-2014
Date of Sample Receipt : 18-12-2014
Date of Test : 18-12-2014 to 30-12-2014
Sample Collected By : Darwesh Kumar
Point of Collection : Piezometer Well No.5

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the 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]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	8.02	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	238.32	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.03	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	893.42	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1724	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	37.69	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	30.52	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

Note:

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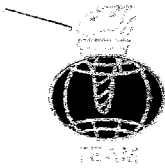
S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	368.2	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	23.6	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	3.55	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 (< 0.01)	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]	0.04	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	270	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]	0.65	IS 13428 (Annexure H)	0.5	1.0
24	Suspended Solids [mg/l]	16	IS 3025 (part 15) : 1984	-	-
25	Total Chromium [mg/l]	0.03	APHA :2012 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL (< 0.1)	IS 3025 (Part 26) : 1986	0.2	1
27	selenium [mg/l]	BDL (< 0.01)	IS 3025 (Part 56) : 2003	0.01	-
28	Nickel [mg/l]	BDL (< 0.01)	IS 3025 (Part 54) : 2003	0.02	-

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(Rajesh Maheshwari)
Technical Manager

(Kavita Mathur)
Authorized Signatory
(Report No: W/NABL/580)



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E-mail : director@teamtesthouse.com

Report No. _____
Date : _____

W/NABL/579

21-01-2015

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 :

Potable and Domestic Water

Date of Sample Collection/Monitoring : 17-12-2014

Date of Sample Receipt : 18-12-2014

Date of Test : 18-12-2014 to 30-12-2014

Sample Collected By : Darwesh Kumar

Point of Collection : Piezometer Well No.4 (Suras Mine)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the 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]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.35	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	248.76	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.01	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	330.2	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1245	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	57.18	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	24.35	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

Note:

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RESULTS

Sl. No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	140.0	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	15.41	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	0.52	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 (< 0.01)	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]	0.02	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	240	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]	0.65	IS 13428 (Annexure H)	0.5	1.0
24	Suspended Solids [mg/l]	12	IS 3025 (part 15) : 1984	-	-
25	Total Chromium [mg/l]	BDL (< 0.01)	APHA :2012 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL (< 0.1)	IS 3025 (Part 26) : 1986	0.2	1
27	selenium [mg/l]	BDL (< 0.01)	IS 3025 (Part 56) : 2003	0.01	-
28	Nickel [mg/l]	BDL (< 0.01)	IS 3025 (Part 54) : 2003	0.02	-

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(Rajesh Maheshwari)
Technical Manager

(Kavita Mathur)
Authorized Signatory
(Report No: W/NABL/579)



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



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Date :

W/NABL/578

21-01-2015

Issued To :

M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji 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 : 17-12-2014

Date of Sample Receipt : 18-12-2014

Date of Test : 18-12-2014 to 30-12-2014

Sample Collected By : Darwesh Kumar

Point of Collection : Piezometer Well No.3 (Suras Mine)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the 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]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.46	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	170.6	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.01	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	30.4	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	365	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	44.13	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	14.68	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

Note:

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Darwesh



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

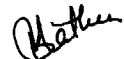
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	31.0	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	17.42	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	0.78	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 (< 0.01)	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]	0.02	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	160	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL (< 0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.46	IS 13428 (Annexure H)	0.5	1.0
24	Suspended Solids [mg/l]	10	IS 3025 (part 15) : 1984	-	-
25	Total Chromium [mg/l]	BDL (< 0.01)	APHA :2012 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL (< 0.1)	IS 3025 (Part 26) : 1986	0.2	1
27	selenium [mg/l]	BDL (< 0.01)	IS 3025 (Part 56) : 2003	0.01	-
28	Nickel [mg/l]	BDL (< 0.01)	IS 3025 (Part 54) : 2003	0.02	-

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


(Kavita Mathur)
Authorized Signatory
(Report No: W/NABL/578)



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



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Report No. :
Website : www.teamtesthouse.com

TEST REPORT

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Ph.: 94602-22039, 94602-22049
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E-mail : director@teamtesthouse.com

Issued To :

W/NABL/577
21-01-2015

M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji 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 :

17-12-2014

Date of Sample Receipt :

18-12-2014

Date of Test :

18-12-2014 to 30-12-2014

Sample Collected By :

Darwesh Kumar

Point of Collection :

Piezometer Well No. 2 (Plant Gate No.6)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the 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]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.25	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	426	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.01	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	122.7	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	823	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	133.2	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	42.05	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

Note:

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Ph.: 94602-22039, 94602-22049

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	76.38	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	35.20	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.21	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 (< 0.01)	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]	0.05	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	250	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]	0.41	IS 13428 (Annexure H)	0.5	1.0
24	Suspended Solids [mg/l]	11	IS 3025 (part 15) : 1984	-	-
25	Total Chromium [mg/l]	0.01	APHA :2012 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1
27	Selenium [mg/l]	BDL (< 0.01)	IS 3025 (Part 56) : 2003	0.01	-
28	Nickel [mg/l]	BDL (< 0.01)	IS 3025 (Part 54) : 2003	0.02	-

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Rajesh
(Rajesh Maheshwari)
Technical Manager

Kavita Mathur
(Kavita mathur)
Authorized Signatory
(Report No: W/NABL/577)



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



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Report No. _____

W/NABL/576

Date :

21-01-2015

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 :

Potable and Domestic Water

Date of Sample Collection/Monitoring :

17-12-2014

Date of Sample Receipt :

18-12-2014

Date of Test :

18-12-2014 to 30-12-2014

Sample Collected By :

Darwesh Kumar

Point of Collection :

Piezometer Well No. 1

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the 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]	Less than 0.1	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.46	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	102.68	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	0.01	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	347.81	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1247	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	36.85	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	9.02	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

Note:

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E-mail : director@teamtesthouse.com

RESULTS

Sl. No.	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
14	Sulphate [mg/l]	120.5	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	12.3	IS 3025 (Part 34) : 1988	45.00	-
16	Fluoride [mg/l]	1.22	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 (< 0.01)	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]	0.03	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	170	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]	0.48	IS 13428 (Annexure H)	0.5	1.0
24	Suspended Solids [mg/l]	5	IS 3025 (part 15) : 1984	-	-
25	Total Chromium [mg/l]	0.01	APHA :2012 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL (Less than 0.1)	IS 3025 (Part 26) : 1986	0.2	1
27	selenium [mg/l]	BDL (< 0.01)	IS 3025 (Part 56) : 2003	0.01	-
28	Nickel [mg/l]	BDL (< 0.01)	IS 3025 (Part 54) : 2003	0.02	-

Notes :-

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Rajesh
(Rajesh Maheshwari)
Technical Manager

Kavita Mathur
(Kavita Mathur)
Authorized Signatory
(Report No: W/NABL/576)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No	W/NABL/566
Date	19/01/2015
Issued to	M/s Jindal Saw Limited, Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.9697/6711Near Tiranga Hills Village: Pur, Tehsil & District Bhilwara - 311802 (Rajasthan)
Type of Sample	Potable and Domestic Water
Type of Unit	Mines
Date of Sample Collection	17/12/2014
Date of sample receipt	18/12/2014
Date of Test	18/12/2014 to 30/12/2014
Sample Collected By	Mr.Darwesh Kumar
Sampling Location	Plant office (Drinking Water)

RESULTS

S. No	Parameters	Observed Value	Standard Desirable limits as per IS: 10500, 2012	Standard Permissible limits in the absence of alternative source as per IS: 10500, 2012	Testing protocol
1	Color Hazen	Less than 0.5	5	15	IS 3025(Part 4): 1983
2	Odour	Agreeable	Agreeable	-	IS 3025(Part 5): 1983
3	Taste	Agreeable	Agreeable	-	IS 3025(Part 7 & 8): 1984
4	Turbidity NTU	BDL (<0.1)	1	5	IS 3025(Part 10): 1984
5	pH	6.93	6.5 – 8.5	-	IS 3025(Part 11): 1984
6	Total Hardness as CaCO ₃ mg/l	56	200	600	IS 3025(Part 21): 1983
7	Iron as Fe mg/l	BDL (< 0.01)	0.3	-	IS 3025(Part 53): 2003
8	Chlorides as Cl mg/l	35.6	250	1000	IS 3025(Part 32): 1988
9	Total Dissolved Solids mg/l	156	500	2000	IS 3025(Part 16): 1984
10	Calcium as Ca mg/l	20.3	75	200	IS 3025(Part 40): 1991
11	Magnesium as Mg mg/l	3.42	30	100	IS 3025(Part 46): 1994
12	Copper as Cu mg/l	BDL (< 0.01)	0.05	1.5	IS 3025(Part 42): 1992
13	Manganese as Mn mg/l	BDL (< 0.01)	0.1	0.3	IS 3025 (Part 59)
14	Sulphate as SO ₄ mg/l	16.4	200	400	IS 3025(Part 24): 1986
15	Nitrate as NO ₃ mg/l	1.26	45	-	IS 3025(Part 34): 1988
16	Fluoride as F mg/l	0.28	1.0	1.5	IS 3025(Part 60)
17	Cadmium as Cd mg/l	BDL (< 0.001)	0.003	-	IS 3025(Part 41): 1992

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No.	Parameter	Result	Limit	Standard	Reference
18	Arsenic as AS mg/l	BDL (< 0.01)	0.01	0.05	IS 3025(Part 37): 1988
19	Lead as Pb mg/l	BDL (< 0.01)	0.01	-	IS 3025(Part 47): 1994
20	Zinc as Zn mg/l	BDL (< 0.01)	5.0	15	IS 3025(Part 49): 1994
21	Total Alkalinity as CaCO ₃ mg/l	16	200	600	IS 3025(Part 23): 1986
22	Aluminum as Al mg/l	BDL (< 0.01)	0.03	0.2	IS 3025(Part 55): 2003
23	Boron as B mg/l	0.26	0.5	1.0	IS 13428 (Annexure H)
24	E-Coli Organism MPN/100 ml	Not Detected	Shall not be detectable in any 100 ml sample	-	IS 5887 (Part 1)
25	Suspended Solids mg/l	2			IS 3025(Part 15): 1984
26	Total Chromium as Cr	BDL (< 0.01)	0.05	-	APHA 2012:3111-B
27	Free Residual Chlorine mg/l	BDL (< 0.1)	0.2	1.0	IS 3025(Part 26): 1986
28	Selenium mg/l	BDL (< 0.01)	0.01	-	IS 3025(Part 56): 2003

Note: -

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Rajesh Maheshwari
Technical Manager

Kavita Mathur
Authorized Signatory
(Report No: W/NABL/566)



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TEST REPORT

Report No. :	WW/NABL/511	
Job Identification. :	4723	
Date :	09-01-2015	
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 :	Wastewater Sample	
Date of Sample Collection/Monitoring :	17-12-2014	
Date of Sample Receipt :	18-12-2014	
Date of Test :	18-12-2014 to 09-01-2015	
Sample Collected By :	Darwesh Kumar	
Point of Collection :	Tailing Recycling	

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Suspended Solids [mg/l]	14	APHA.2012:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	4.2	APHA 2012:5210-B	30
3	Chemical Oxygen Demand (COD) [mg/l]	24	APHA.2012 : 5220-C	250
4	pH	7.63	APHA:2012 : 4500 H+B	5.5 - 9.0
5	Oil & Grease [mg/l]	2	APHA-2012 :5520-B	10

Notes :-

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Rajesh
(Rajesh Maheshwari)
Technical Manager

Kavita
(Kavita Mathur)
Authorized Signatory
(Report No: WW/NABL/511)



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TEST REPORT

Report No. :	WW/NABL/510	
Job Identification. :	4722	
Date :	09-01-2015	
Issued To :	M/s Jindal Saw Limited,	
	Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No.	
	9697/6711 Near Tiranga Hills Village: Pur,	
	Tehsil & District Bhilwara - 311802 (Rajasthan)	
Type of Unit :	Mines	
Type of Sample :	Wastewater Sample	
Date of Sample Collection/Monitoring :	17-12-2014	
Date of Sample Receipt :	18-12-2014	
Date of Test :	18-12-2014 to 09-01-2015	
Sample Collected By :	Darwesh Kumar	
Point of Collection :	Tailing Pond	

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Suspended Solids [mg/l]	16	APHA.2012:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	4.4	APHA 2012:5210-B	30
3	Chemical Oxygen Demand (COD) [mg/l]	35.2	APHA:2012 : 5220-C	250
4	pH	7.98	APHA:2012 : 4500 H+B	5.5 - 9.0
5	Oil & Grease [mg/l]	3	APHA-2012 :5520-B	10

Notes :-

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Rajesh

(Rajesh Maheshwari)
Technical Manager

Kavita

(Kavita Mathur)
Authorized Signatory
(Report No: WW/NABL/510)



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



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TEST REPORT

Report No. :	WW/NABL/512
Job Identification. :	4724
Date :	09-01-2015
Issued To :	M/s Jindal Saw Limited, Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No. 9697/6711 Near Tiranga Hills Village: Pur, Tehsil & District Bhilwara - 311802 (Rajasthan)
Type of Unit :	Mines
Type of Sample :	Wastewater Sample
Date of Sample Collection/Monitoring :	17-12-2014
Date of Sample Receipt :	18-12-2014
Date of Test :	18-12-2014 to 09-01-2015
Sample Collected By :	Darwesh Kumar
Point of Collection :	STP Incoming

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Suspended Solids [mg/l]	7	APHA.2012:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	6.5	APHA 2012:5210-B	30
3	Chemical Oxygen Demand (COD) [mg/l]	76.8	APHA:2012 : 5220-C	250
4	pH	8.09	APHA:2012 : 4500 H+B	5.5 - 9.0
5	Oil & Grease [mg/l]	2	APHA-2012 :5520-B	10

Notes :-

- # 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.

Raj
(Rajesh Maheshwari)
Technical Manager

Kavita
(Kavita Mathur)
Authorized Signatory
(Report No: WW/NABL/512)



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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C-Scheme, Jaipur
Phone : 0141-2369980, 2771865
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Report No
Date
Issued to

TEST REPORT

A/3056

09/01/2015

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)

Mines

Lab.: G1-584, Sitapura Industrial Area

Tonk Road, JAIPUR-302022 Raj.

Ph.: 94602-22039, 94602-22049

E-mail : teamtesthouse@gmail.com

E-mail : teamtest@rediffmail.com

Type of Unit

Date of Monitoring

Date of Sample Receipt

Date of Test

Sample Collected by

Type of Monitoring

12/12/2014 to 15/12/2014

18/12/2014

18/12/2014

Darwesh Kumar

Ambient Noise Monitoring

RESULTS


Sr. No.	Point Of Monitoring	Type of Area	Observed value [Leq dB (A)] Day Time	Observed value [Leq dB (A)] Night Time
1.	Pur Village (Near Ganesh Mandir)	Rural Area	53.6	44.2
2.	Samodi Village (Near Balaji Temple)	Rural Area	51.5	40.2
3.	Suras Village (Nr. Roshanlal Gurjar Home)	Rural Area	53.2	41.8
4.	Gandhi Sagar Village (Gandhi park)	Rural Area	53.5	42.3
5.	Kanoli Village (Nr. Kuldeep Singh Ranawat House)	Rural Area	51.3	42.5
6.	Dhulkhera Village (Nr. Mulla Ram Saini House)	Rural Area	52.4	40.8
7.	Dariba Village (Nr. Ayurvedic Dispensary)	Rural Area	51.7	40.5


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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Rajesh Maheshwari
Technical Manager


Kavita Mathur
Quality Manager
(Report No.: - A/3056)



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

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TEST REPORT

A/3057

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Report No. _____
Date 09/01/2015
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
Date of Monitoring 12/12/2014 to 15/12/2014
Date of Sample Receipt 18/12/2014
Date of Test 18/12/2014
Sample Collected by Darwesh Kumar
Type of Monitoring Ambient Noise Monitoring

RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [Leq dB (A)] Day Time	Observed value [Leq dB (A)] Night Time
1.	Dhulkhera Pit (About 10 meter distance of loading point)	Industrial Area	64.3	53.6
2.	Suras Pit (About 10 meter distance of loading point)	Industrial Area	66.5	56.8
3	Tirnga Pit (About 10 meter distance of raw material loading point)	Industrial Area	67.2	55.3
4	Filter Fresh Building	Industrial Area	61.4	53.8
5	Near Raw Material Storage Yard	Industrial Area	65.3	55.6
6	BNF CCR Building	Industrial Area	63.0	53.7
7	Tata Blue Scope Shed	Industrial Area	64.6	54.6
8	CCR Building	Industrial Area	64.2	51.5

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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Rajesh
Rajesh Maheshwari
Technical Manager

Kavita
Kavita Mathur
Quality Manager
(Report No.: - A/3057)