



# 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

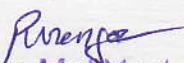
Report No. : A/1684  
Job Identification : 6389/16-17  
Date : 22-10-2016  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 06-10-2016  
Date of Sample Receipt : 10-10-2016  
Date of Test : 10-10-2016 to 22-10-2016  
Sample Collected By : Satyendra Kumar 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 <sup>3</sup> ]	390	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.73	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	154.49	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	24.42	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	5.37	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	55.41	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.

  
Purnan Mal Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/1684)



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## TEST REPORT


Report No.: A/1685  
Job Identification.: 6390/16-17  
Date : 22-10-2016  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 06-10-2016  
Date of Sample Receipt : 10-10-2016  
Date of Test : 10-10-2016 to 22-10-2016  
Sample Collected By : Satyendra Kumar Sharma  
Point of Collection : Dhulkhera Pit

## 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 NO <sub>2</sub> [microgram/m3]	16.99	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	240.02	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m3]	23.75	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	5.62	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m3]	59.58	IS 5182 (Part 23)	100.00

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Purnan Mai Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/1685)



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## TEST REPORT

Job Identification : A/1686  
Date : 6391/16-17  
Issued To : 22-10-2016  
M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 07-10-2016  
Date of Sample Receipt : 10-10-2016  
Date of Test : 10-10-2016 to 22-10-2016  
Sample Collected By : Satyendra Kumar Sharma  
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/m3]	350	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.89	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	177.8	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	35.22	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	4.97	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	57.13	IS 5182 (Part 23)	100.00

Notes :-

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*Puranjay*  
Puran Mal Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/1686)



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## TEST REPORT

Report No. : A/1687

Job Identification. : 6392/16-17

Date : 22-10-2016

Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines

Type of Sample : Ambient Air Quality Monitoring

Date of Sample Collection/Monitoring : 07-10-2016

Date of Sample Receipt : 10-10-2016

Date of Test : 10-10-2016 to 22-10-2016

Sample Collected By : Satyendra Kumar Sharma

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]	460	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.1	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	207.22	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	22.5	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	5.44	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	89.89	IS 5182 (Part 23)	100.00

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Purnan Mahayogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/1687)



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## TEST REPORT

Report No: A/1766  
Job Identification : 7045/16-17  
Date : 04-11-2016  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 24-10-2016  
Date of Sample Receipt : 28-10-2016  
Date of Test : 28-10-2016 to 04-11-2016  
Sample Collected By : Satyendra Kumar Sharma  
Point of Collection : Tiranga Pit (Mining Area)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	240	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	16.88	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	172.91	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	40.39	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.78	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	73.81	IS 5182 (Part 23)	100.00

### Notes :-

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*Puranga*  
Puran Mat Yogi  
Senior Analyst

*Rajesh*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/1766)



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## TEST REPORT

Report No: A/1768  
Job Identification. : 7047/16-17  
Date : 04-11-2016  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 24-10-2016  
Date of Sample Receipt : 28-10-2016  
Date of Test : 28-10-2016 to 04-11-2016  
Sample Collected By : Satyendra Kumar Sharma  
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/m3]	180	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.97	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	201.48	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	27.13	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	7.16	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	50.06	IS 5182 (Part 23)	100.00

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Purnan Malhotra  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/1768)



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Job Identification : 7048/16-17  
Date : 04-11-2016  
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)

A/1769

7048/16-17

04-11-2016

M/S Jindal Saw Limited (Dhedwas Mines)

Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara  
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines

Type of Sample : Ambient Air Quality Monitoring

Date of Sample Collection/Monitoring : 25-10-2016

Date of Sample Receipt : 28-10-2016

Date of Test : 28-10-2016 to 04-11-2016

Sample Collected By : Satyendra Kumar Sharma

Point of Collection : Dhulkhera Pit

## 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]	14.62	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	216.34	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	32.44	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	4.54	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	54.3	IS 5182 (Part 23)	100.00

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Puran Maheshwari  
Senior Analyst

  
Raresh Maheshwari  
Authorized Signatory  
(Report No: A/1769)



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## TEST REPORT

Report No.: A/1767  
Job Identification.: 7046/16-17  
Date: 05-11-2016  
Issued To: M/S Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara District-Bhilwara 311802 (Rajasthan)  
Type of Unit: Mines  
Type of Sample: Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring: 24-10-2016  
Date of Sample Receipt: 28-10-2016  
Date of Test: 28-10-2016 to 04-11-2016  
Sample Collected By: Satyendra Kumar Sharma  
Point of Collection: Suras Pit (Near Dhaba)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	210	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.05	IS 5182 (Part 6) : 2006	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	218.29	IS 5182 (Part 4) : 1999	-
4	Particulate Matter (PM2.5) [microgram/m3]	20.08	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.55	IS 5182 (Part 2) : 2001	80.00
6	Particulate Matter (PM 10) [microgram/m3]	65.19	IS 5182 (Part 23)	100.00

Notes :-

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*Puran Mah Yodi*  
Puran Mah Yodi  
Senior Analyst

*Rajesh Maheshwari*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: A/1767)