



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

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur-302001
Phone : 0141-2369980, 2771865
Website : www.teamtesthouse.com

Lab.: G1-584, Sitapura Industrial Area
Tonk Road, JAIPUR-302022 Raj.
Ph.: 94602-22039, 94602-22049
E-mail : teamtesthouse@gmail.com
E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : A/2734
Job Identification. : 8574/17-18
Date : 07-02-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai 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 : 13-01-2018
Date of Sample Receipt : 17-01-2018
Date of Test : 17-01-2018 to 07-02-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near Tiranga Pit [25°19.528" N 074°32.327"E]

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] | 15.65 | IS 5182 (Part 6) : 2006 Reaffirmed 2012 | 80.00 |
| 3 | Suspended Particulate Matter (SPM) [microgram/m3] | 253 | IS 5182 (Part 4) : 1999 Reaffirmed 2014 | - |
| 4 | Particulate Matter (PM2.5) [microgram/m3] | 28.51 | CPCB Guidelines | 60.00 |
| 5 | Sulphur Dioxide [microgram/m3] | 7.2 | IS 5182 (Part 2) : 2001 Reaffirmed 2012 | 80.00 |
| 6 | Particulate Matter (PM 10) [microgram/m3] | 84.94 | IS 5182 (Part 23)-2006 Reaffirmed 2012 | 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.

Puram
Puram Mal Yogi
Senior Analyst

Raj
Authorized Signatory
(Report No: A/2734)



TEAM TEST HOUSE

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TC-5025

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

TEST REPORT

Report No. : A/2737
Job Identification. : 8577/17-18
Date : 07-02-2018
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 : 14-01-2018
Date of Sample Receipt : 17-01-2018
Date of Test : 17-01-2018 to 07-02-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Samodi Village Roof of Shri Bheru Lal Jahir

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|---|
| 1 | Carbon Monoxide [microgram/m3] | 220 | IS 5182 (Part 10) : 1999 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 13.81 | IS 5182 (Part 6) : 2006 Reaffirmed 2012 | 80.00 |
| 3 | Suspended Particulate Matter (SPM) [microgram/m3] | 237.03 | IS 5182 (Part 4) : 1999 Reaffirmed 2014 | - |
| 4 | Particulate Matter (PM2.5) [microgram/m3] | 28.5 | CPCB Guidelines | 60.00 |
| 5 | Sulphur Dioxide [microgram/m3] | 5.66 | IS 5182 (Part 2) : 2001 Reaffirmed 2012 | 80.00 |
| 6 | Particulate Matter (PM 10) [microgram/m3] | 74.14 | IS 5182 (Part 23)-2006 Reaffirmed 2012 | 100.00 |

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Purushottam Yogi
Purushottam Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: A/2737)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : A/2735
Job Identification. : 8575/17-18
Date : 07-02-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji 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 : 12-01-2018
Date of Sample Receipt : 17-01-2018
Date of Test : 17-01-2018 to 07-02-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dhulkhera Pit [25°23'50.9"N 74°35'02.5"E]

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|---|
| 1 | Carbon Monoxide [microgram/m3] | 290 | IS 5182 (Part 10) : 1999 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 16.36 | IS 5182 (Part 6) : 2006 Reaffirmed 2012 | 80.00 |
| 3 | Suspended Particulate Matter (SPM) [microgram/m3] | 351.08 | IS 5182 (Part 4) : 1999 Reaffirmed 2014 | - |
| 4 | Particulate Matter (PM2.5) [microgram/m3] | 28.91 | CPCB Guidelines | 60.00 |
| 5 | Sulphur Dioxide [microgram/m3] | 8.81 | IS 5182 (Part 2) : 2001 Reaffirmed 2012 | 80.00 |
| 6 | Particulate Matter (PM 10) [microgram/m3] | 81.84 | IS 5182 (Part 23)-2006 Reaffirmed 2012 | 100.00 |

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Purpa
Purpa
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: A/2735)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : A/2736
Job Identification. : 8576/17-18
Date : 07-02-2018
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 : 11-01-2018
Date of Sample Receipt : 17-01-2018
Date of Test : 17-01-2018 to 07-02-2018
Sample Collected By : Parsa Ram Kudi
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] | 360 | IS 5182 (Part 10) : 1999 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 15.04 | IS 5182 (Part 6) : 2006 Reaffirmed 2012 | 80.00 |
| 3 | Suspended Particulate Matter (SPM) [microgram/m3] | 272.94 | IS 5182 (Part 4) : 1999 Reaffirmed 2014 | - |
| 4 | Particulate Matter (PM2.5) [microgram/m3] | 32.84 | CPCB Guidelines | 60.00 |
| 5 | Sulphur Dioxide [microgram/m3] | 7.74 | IS 5182 (Part 2) : 2001 Reaffirmed 2012 | 80.00 |
| 6 | Particulate Matter (PM 10) [microgram/m3] | 80.21 | IS 5182 (Part 23)-2006 Reaffirmed 2012 | 100.00 |

Notes :-

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Purnima Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: A/2736)



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

TEST REPORT

Report No. : A/2746
Job Identification. : 9056/17-18
Date : 07-02-2018
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 : 29-01-2018
Date of Sample Receipt : 01-02-2018
Date of Test : 01-02-2018 to 07-02-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near Tiranga Pit [25°19.528" N 074°32.327"E]

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] | 15.65 | IS 5182 (Part 6) : 2006 Reaffirmed 2012 | 80.00 |
| 3 | Suspended Particulate Matter (SPM) [microgram/m ³] | 276.09 | IS 5182 (Part 4) : 1999 Reaffirmed 2014 | - |
| 4 | Particulate Matter (PM _{2.5}) [microgram/m ³] | 37.28 | CPCB Guidelines | 60.00 |
| 5 | Sulphur Dioxide [microgram/m ³] | 5.17 | IS 5182 (Part 2) : 2001 Reaffirmed 2012 | 80.00 |
| 6 | Particulate Matter (PM 10) [microgram/m ³] | 79.66 | IS 5182 (Part 23)-2006 Reaffirmed 2012 | 100.00 |

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: A/2746)



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

TEST REPORT

Report No. : A/2749
Job Identification. : 9059/17-18
Date : 07-02-2018
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 : 30-01-2018
Date of Sample Receipt : 01-02-2018
Date of Test : 01-02-2018 to 07-02-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Samodi Village [25°20'53.4"N 74°32'47.7"E]

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] | 14.23 | IS 5182 (Part 6) : 2006 Reaffirmed 2012 | 80.00 |
| 3 | Suspended Particulate Matter (SPM) [microgram/m3] | 275.11 | IS 5182 (Part 4) : 1999 Reaffirmed 2014 | - |
| 4 | Particulate Matter (PM2.5) [microgram/m3] | 36.91 | CPCB Guidelines | 60.00 |
| 5 | Sulphur Dioxide [microgram/m3] | 6.56 | IS 5182 (Part 2) : 2001 Reaffirmed 2012 | 80.00 |
| 6 | Particulate Matter (PM 10) [microgram/m3] | 78.35 | IS 5182 (Part 23)-2006 Reaffirmed 2012 | 100.00 |

Notes -

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Purush
Purush Mal Yogi
Senior Analyst

Rajesh
Rajesh Kashwan
Authorized Signatory
(Report No: A/2749)



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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. : A/2747
Job Identification. : 9057/17-18
Date : 07-02-2018
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 : 31-01-2018
Date of Sample Receipt : 01-02-2018
Date of Test : 01-02-2018 to 07-02-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dhulkhera Pit [25°23'50.9"N 74°35'02.5"E]

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|---|
| 1 | Carbon Monoxide [microgram/m3] | 290 | IS 5182 (Part 10) : 1999 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 14.63 | IS 5182 (Part 6) : 2006 Reaffirmed 2012 | 80.00 |
| 3 | Suspended Particulate Matter (SPM) [microgram/m3] | 346.2 | IS 5182 (Part 4) : 1999 Reaffirmed 2014 | - |
| 4 | Particulate Matter (PM2.5) [microgram/m3] | 38.43 | CPCB Guidelines | 60.00 |
| 5 | Sulphur Dioxide [microgram/m3] | 6.52 | IS 5182 (Part 2) : 2001 Reaffirmed 2012 | 80.00 |
| 6 | Particulate Matter (PM 10) [microgram/m3] | 70.84 | IS 5182 (Part 23)-2006 Reaffirmed 2012 | 100.00 |

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Puraj
Puraj Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: A/2747)



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

TEST REPORT

| | |
|--|--|
| Report No. : | A/2748 |
| Job Identification. : | 9058/17-18 |
| Date : | 07-02-2018 |
| Issued To : | M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji 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 : | 31-01-2018 |
| Date of Sample Receipt : | 01-02-2018 |
| Date of Test : | 01-02-2018 to 07-02-2018 |
| Sample Collected By : | Parsa Ram Kudi |
| Point of Collection : | Suras Pit |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|---|
| 1 | Carbon Monoxide [microgram/m3] | 320 | IS 5182 (Part 10) : 1999 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 14 | IS 5182 (Part 6) : 2006 Reaffirmed 2012 | 80.00 |
| 3 | Suspended Particulate Matter (SPM) [microgram/m3] | 262.04 | IS 5182 (Part 4) : 1999 Reaffirmed 2014 | - |
| 4 | Particulate Matter (PM2.5) [microgram/m3] | 32.57 | CPCB Guidelines | 60.00 |
| 5 | Sulphur Dioxide [microgram/m3] | 4.04 | IS 5182 (Part 2) : 2001 Reaffirmed 2012 | 80.00 |
| 6 | Particulate Matter (PM 10) [microgram/m3] | 78.33 | IS 5182 (Part 23)-2006 Reaffirmed 2012 | 100.00 |

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Puram Malviya
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: A/2748)