



# 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/1788  
Job Identification : 2960  
Date : 28-10-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur.  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 24-09-2014  
Date of Sample Receipt : 29-09-2014  
Date of Test : 29-09-2014 to 10-10-2014  
Sample Collected By : Darwesh Kumar  
Point of Collection : Tiranga Pit (Mining Face)

## RESULTS

| S.No | Parameters  | Observed Value | Testing Protocol         | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--------------------------|---|
| 1    | Carbon Monoxide [microgram/m3]                    | 220            | IS 5182 (Part 10) : 1999 | 4000  |
| 2    | Nitrogen Dioxide as NO2 [microgram/m3]            | 15.9           | IS 5182 (Part 6) : 2006  | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m3] | 278.19         | IS 5182 (Part 4) : 1999  |   |
| 4    | Particulate Matter (PM2.5) [microgram/m3]         | 30.18          | CPCB Guidelines          | 60.00   |
| 5    | Sulphur Dioxide [microgram/m3]                    | 9.58           | IS 5182 (Part 2) : 2001  | 80.00   |
| 6    | Particulate Matter (PM 10) [microgram/m3]         | 82.21          | 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

*K. N. Mukhopadhyay*

(K. N. Mukhopadhyay)  
Authorized Signatory  
(Report No: A/1788)



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## TEST REPORT


Report No. : A/1789  
Job Identification. : 2961  
Date : 28-10-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 24-09-2014  
Date of Sample Receipt : 29-09-2014  
Date of Test : 29-09-2014 to 10-10-2014  
Sample Collected By : Darwesh Kumar  
Point of Collection : Samodi village


## RESULTS

| S.No | Parameters  | Observed Value | Testing Protocol         | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--------------------------|---|
| 1    | Carbon Monoxide [microgram/m3]                    | 170            | IS 5182 (Part 10) : 1999 | 4000  |
| 2    | Nitrogen Dioxide as NO2 [microgram/m3]            | 10.92          | IS 5182 (Part 6) : 2006  | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m3] | 236.82         | IS 5182 (Part 4) : 1999  | -   |
| 4    | Particulate Matter (PM2.5) [microgram/m3]         | 26.91          | CPCB Guidelines          | 60.00   |
| 5    | Sulphur Dioxide [microgram/m3]                    | 6.27           | IS 5182 (Part 2) : 2001  | 80.00   |
| 6    | Particulate Matter (PM 10) [microgram/m3]         | 66.04          | IS 5182 (Part 23)        | 100.00  |

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(Rajesh Maheshwari)  
Technical Manager

  
(K. N. Mukhopadhyay)  
Authorized Signatory  
(Report No: A/1789)



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## TEST REPORT

Report No. : A/1790  
Job Identification : 2962  
Date : 28-10-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village Pur,  
Tehsil & District Bhitwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 24-09-2014  
Date of Sample Receipt : 29-09-2014  
Date of Test : 29-09-2014 to 10-10-2014  
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/m3]                    | 240            | IS 5182 (Part 10) : 1999 | 4000  |
| 2    | Nitrogen Dioxide as NO2 [microgram/m3]            | 17.73          | IS 5182 (Part 6) : 2006  | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m3] | 364.45         | IS 5182 (Part 4) : 1999  | -   |
| 4    | Particulate Matter (PM2.5) [microgram/m3]         | 23.69          | CPCB Guidelines          | 60.00   |
| 5    | Sulphur Dioxide [microgram/m3]                    | 8.44           | IS 5182 (Part 2) : 2001  | 80.00   |
| 6    | Particulate Matter (PM 10) [microgram/m3]         | 69.27          | IS 5182 (Part 23)        | 100.00  |

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(Rajesh Maheshwari)  
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(K. N. Mukhopadhyay)  
Authorized Signatory  
(Report No: A/1790)



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## TEST REPORT

Report No. : A/1791  
Job Identification : 2963  
Date : 28-10-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 24-09-2014  
Date of Sample Receipt : 29-09-2014  
Date of Test : 29-09-2014 to 10-10-2014  
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 <sup>3</sup> ]                         | 180            | IS 5182 (Part 10) : 1999 | 4000  |
| 2    | Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]     | 12.69          | IS 5182 (Part 6) : 2006  | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]      | 194.5          | IS 5182 (Part 4) : 1999  | -   |
| 4    | Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ] | 29.79          | CPCB Guidelines          | 60.00   |
| 5    | Sulphur Dioxide [microgram/m <sup>3</sup> ]                         | 8.71           | IS 5182 (Part 2) : 2001  | 80.00   |
| 6    | Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]  | 73.15          | IS 5182 (Part 23)        | 100.00  |

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(Rajesh Maheshwari)  
Technical Manager

  
(K. N. Mukhopadhyay)  
Authorized Signatory  
(Report No: A/1791)



# TEAM TEST HOUSE

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



T-1736, T-2276

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

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|   |   |   |
|---|---|---|
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| <p>Type of Unit :<br/>Type of Sample :<br/>Date of Sample Collection/Monitoring :<br/>Date of Sample Receipt :<br/>Date of Test :<br/>Sample Collected By :<br/>Point of Collection :</p> | <p>Mines<br/>Potable and Domestic Water<br/>25-09-2014<br/>29-09-2014<br/>29-09-2014 to 21-10-2014<br/>Darwesh Kumar<br/>Piezometer Well No. 1</p>  |   |

### 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                            | 7.62           | IS 3025 (Part 11) : 1984    | 6.50 - 8.50   | -  |
| 6    | Hardness (total) [mg/l]       | 74.51          | 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]               | 427.53         | IS 3025 (Part 32) : 1988    | 250.00  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 1340           | IS 3025 (Part 16) : 1984    | 500.00  | 2000.00  |
| 10   | Calcium [mg/l]                | 12.55          | IS 3025 (Part 40) : 1991    | 75.00   | 200.00   |
| 11   | Magnesium [mg/l]              | 10.48          | 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: teamtesthouse@gmail.com  
E-mail: teamtest@rediffmail.com


### RESULTS

| Sl. No. | Parameters                    | Observed Value      | Testing Protocol         | Limit as per IS 10500 : 2012 | Limit in the absence of alternative Source as per IS 10500 2012 |
|---------|-------------------------------|---------------------|--------------------------|------------------------------|---|
| 14      | Sulphate [mg/l]               | 88.75               | IS 3025 (Part 24) : 1986 | 200.00                       | 400.00  |
| 15      | Nitrate [mg/l]                | 5.29                | IS 3025 (Part 34) : 1988 | 45.00                        | -   |
| 16      | Fluoride [mg/l]               | 0.92                | 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]         | 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]                  | 0.52                | IS 13428 (Annexure H)    | 0.5                          | 1.0   |
| 24      | Suspended Solids [mg/l]       | 3                   | 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                         | -   |

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(Raiesh Maheshwari)  
Technical Manager

  
(K. N. Mukhopadhyay)  
Authorized Signatory  
(Report No: WNABL/363)



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T-1736, T-2276

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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 |
|------|-------------------------------|----------------|-----------------------------|---|--|
| 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                            | 7.37           | IS 3025 (Part 11) : 1984    | 6.50 - 8.50   | -  |
| 6    | Hardness (total) [mg/l]       | 460            | 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]               | 104.51         | IS 3025 (Part 32) : 1988    | 250.00  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 735            | IS 3025 (Part 16) : 1984    | 500.00  | 2000.00  |
| 10   | Calcium [mg/l]                | 117.65         | IS 3025 (Part 40) : 1991    | 75.00   | 200.00   |
| 11   | Magnesium [mg/l]              | 38.1           | 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:

Continue to next page...

*Dr. Deep Singh*



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## RESULTS

| Sl. No. | Parameters                    | Observed Value     | Testing Protocol         | Limit (as per IS 10500 : 2012) | Limit in the absence of alternative Source as per IS 10500 : 2012 |
|---------|-------------------------------|--------------------|--------------------------|--------------------------------|---|
| 14      | Sulphate [mg/l]               | 70.62              | IS 3025 (Part 24) : 1986 | 200.00                         | 400.00  |
| 15      | Nitrate [mg/l]                | 78.82              | IS 3025 (Part 34) : 1988 | 45.00                          | -   |
| 16      | Fluoride [mg/l]               | 0.96               | 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]         | 228                | 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]                  | 0.42               | IS 13428 (Annexure H)    | 0.5                            | 1.0   |
| 24      | Suspended Solids [mg/l]       | 16                 | IS 3025 (part 15) : 1984 | -                              | -   |
| 25      | Total Chromium [mg/l]         | 0.01               | 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                           | -   |

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*Rajesh*

(Rajesh Maheshwari)  
Technical Manager

*K.N. Mukhopadhyay*

(K.N. Mukhopadhyay)  
Authorized Signatory

(Report No: W/NABL/364)



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



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JDA/UDH

## TEST REPORT

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Report No : 0141-2173533, 2771865  
Phone : 0141-2173533, 2771865  
Job Identification :  
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W/NABL/365

2966

27-10-2014

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)

Mines

Potable and Domestic Water

Type of Unit :

Type of Sample :

Date of Sample Collection/Monitoring : 25-09-2014

Date of Sample Receipt : 29-09-2014

Date of Test : 29-09-2014 to 21-10-2014

Sample Collected By : Darwesh Kumar

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

Lab.: G1-584, Sitapura Industrial Area  
Tonk Road, JAIPUR-302022 Raj.  
Ph.: 94602-22039, 94602-22049  
E-mail : teamtesthouse@gmail.com  
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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 |
|------|-------------------------------|----------------|-----------------------------|---|--|
| 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]       | 156.86         | 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] | 317            | IS 3025 (Part 16) : 1984    | 500.00  | 2000.00  |
| 10   | Calcium [mg/l]                | 36.08          | IS 3025 (Part 40) : 1991    | 75.00   | 200.00   |
| 11   | Magnesium [mg/l]              | 16.19          | 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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## TEST REPORT

Report No. : A/1616  
Job Identification. : 2612  
Date : 22-09-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 02-09-2014  
Date of Sample Receipt : 06-09-2014  
Date of Test : 06-09-2014 to 22-09-2014  
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/m3]                    | 160            | IS 5182 (Part 10) : 1999 | 4000  |
| 2    | Nitrogen Dioxide as NO2 [microgram/m3]            | 9.78           | IS 5182 (Part 6) : 2006  | 30.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m3] | 115.66         | IS 5182 (Part 4) : 1999  | 500   |
| 4    | Particulate Matter (PM2.5) [microgram/m3]         | 21.66          | CPCB Guidelines          | 60.00   |
| 5    | Sulphur Dioxide [microgram/m3]                    | 5.15           | IS 5182 (Part 2) : 2001  | 80.00   |
| 6    | Particulate Matter (PM 10) [microgram/m3]         | 43.91          | IS 5182 (Part 23)        | 100.00  |

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Technical Manager

(Kavita Mathur)  
Authorized Signatory  
(Report No: A/1616)



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## TEST REPORT

Report No. : A/1617  
Job Identification. : 2613  
Date : 22-09-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 02-09-2014  
Date of Sample Receipt : 06-09-2014  
Date of Test : 06-09-2014 to 22-09-2014  
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/m3]                    | 180            | IS 5182 (Part 10) : 1999 | 4000  |
| 2    | Nitrogen Dioxide as NO2 [microgram/m3]            | 9.35           | IS 5182 (Part 6) : 2006  | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m3] | 126.75         | IS 5182 (Part 4) : 1999  | 500   |
| 4    | Particulate Matter (PM2.5) [microgram/m3]         | 22.43          | CPCB Guidelines          | 60.00   |
| 5    | Sulphur Dioxide [microgram/m3]                    | 6.28           | IS 5182 (Part 2) : 2001  | 80.00   |
| 6    | Particulate Matter (PM 10) [microgram/m3]         | 44.67          | IS 5182 (Part 23)        | 100.00  |

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## TEST REPORT

Report No. : A/1618  
Job Identification : 2614  
Date : 26-09-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Ambient Air Quality Monitoring  
Date of Sample Collection/Monitoring : 02-09-2014  
Date of Sample Receipt : 06-09-2014  
Date of Test : 06-09-2014 to 22-09-2014  
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 <sup>3</sup> ]                         | 150            | IS 5182 (Part 10) : 1999 | 4000  |
| 2    | Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]     | 10.98          | IS 5182 (Part 6) : 2006  | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]      | 147.34         | IS 5182 (Part 4) : 1999  | 500   |
| 4    | Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ] | 24.91          | CPCB Guidelines          | 60.00   |
| 5    | Sulphur Dioxide [microgram/m <sup>3</sup> ]                         | 5.79           | IS 5182 (Part 2) : 2001  | 80.00   |
| 6    | Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]  | 47.77          | IS 5182 (Part 23)        | 100.00  |

### Notes -

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## TEST REPORT

Report No. : A/1619  
Job Identification : 2615  
Date : 22-09-2014  
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 : 03-09-2014  
Date of Sample Receipt : 06-09-2014  
Date of Test : 06-09-2014 to 22-09-2014  
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]            | 260            | IS 5182 (Part 10) : 1999 | 4000  |
| 2    | Nitrogen Dioxide as NO2 [microgram/m3]    | 10.52          | IS 5182 (Part 6) : 2006  | 80.00   |
| 3    | Particulate Matter (PM2.5) [microgram/m3] | 26.44          | CPCB Guidelines          | 60.00   |
| 4    | Sulphur Dioxide [microgram/m3]            | 5.68           | IS 5182 (Part 2) : 2001  | 80.00   |
| 5    | Particulate Matter (PM 10) [microgram/m3] | 64.1           | IS 5182 (Part 23)        | 100.00  |

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## TEST REPORT

Report No. : A/1620  
Job Identification. : 2616  
Date : 22-09-2014  
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 : 02-09-2014  
Date of Sample Receipt : 06-09-2014  
Date of Test : 06-09-2014 to 22-09-2014  
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/m3]                    | 220            | IS 5182 (Part 10) : 1999 | 4000  |
| 2    | Nitrogen Dioxide as NO2 [microgram/m3]            | 10.75          | IS 5182 (Part 6) : 2006  | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m3] | 138.77         | IS 5182 (Part 4) : 1999  | 500   |
| 4    | Particulate Matter (PM2.5) [microgram/m3]         | 19.9           | CPCB Guidelines          | 60.00   |
| 5    | Sulphur Dioxide [microgram/m3]                    | 8.17           | IS 5182 (Part 2) : 2001  | 80.00   |
| 6    | Particulate Matter (PM 10) [microgram/m3]         | 48.75          | IS 5182 (Part 23)        | 100.00  |

Notes :-

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## TEST REPORT

Report No. : A/1621  
Job Identification. : 2617  
Date : 22-09-2014  
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 : 06-09-2014  
Date of Sample Receipt : 06-09-2014  
Date of Test : 06-09-2014 to 22-09-2014  
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 <sup>3</sup> ]                         | 320            | IS 5182 (Part 10) : 1999 | 4000  |
| 2    | Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]     | 11.34          | IS 5182 (Part 6) : 2006  | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]      | 194.32         | IS 5182 (Part 4) : 1999  | 500   |
| 4    | Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ] | 23.12          | CPCB Guidelines          | 60.00   |
| 5    | Sulphur Dioxide [microgram/m <sup>3</sup> ]                         | 6.12           | IS 5182 (Part 2) : 2001  | 80.00   |
| 6    | Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]  | 63.34          | IS 5182 (Part 23)        | 100.00  |

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## TEST REPORT

Report No. : A/1623  
Job Identification. : 2647  
Date : 22-09-2014  
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 : 03-09-2014  
Date of Sample Receipt : 06-09-2014  
Date of Test : 06-09-2014 to 22-09-2014  
Sample Collected By : Darwesh Kumar  
Point of Collection : Samodi village

## RESULTS

| S.No | Parameters  | Observed Value | Testing Protocol         | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--------------------------|---|
| 1    | Carbon Monoxide [microgram/m <sup>3</sup> ]                         | 180            | IS 5182 (Part 10) : 1999 | 4000  |
| 2    | Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]     | 12.87          | IS 5182 (Part 6) : 2006  | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]      | 145.56         | IS 5182 (Part 4) : 1999  | 500   |
| 4    | Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ] | 19.58          | CPCB Guidelines          | 60.00   |
| 5    | Sulphur Dioxide [microgram/m <sup>3</sup> ]                         | 7.07           | IS 5182 (Part 2) : 2001  | 80.00   |
| 6    | Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]  | 47.62          | IS 5182 (Part 23)        | 100.00  |

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(Report No: A/1623)



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## TEST REPORT

Report No. : A/1624  
Job Identification. : 2648  
Date : 22-09-2014  
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 : 04-09-2014  
Date of Sample Receipt : 06-09-2014  
Date of Test : 06-09-2014 to 22-09-2014  
Sample Collected By : Darwesh Kumar  
Point of Collection : Suras

## RESULTS

| S.No | Parameters  | Observed Value | Testing Protocol         | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--------------------------|---|
| 1    | Carbon Monoxide [microgram/m3]                    | 230            | IS 5182 (Part 10) : 1999 | 4000  |
| 2    | Nitrogen Dioxide as NO2 [microgram/m3]            | 11.38          | IS 5182 (Part 6) : 2006  | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m3] | 200.36         | IS 5182 (Part 4) : 1999  | 500   |
| 4    | Particulate Matter (PM2.5) [microgram/m3]         | 26.17          | CPCB Guidelines          | 60.00   |
| 5    | Sulphur Dioxide [microgram/m3]                    | 6.14           | IS 5182 (Part 2) : 2001  | 80.00   |
| 6    | Particulate Matter (PM 10) [microgram/m3]         | 52.54          | IS 5182 (Part 23)        | 100.00  |

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## TEST REPORT

Report No. : A/1625  
Job Identification : 2649  
Date : 22-09-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.  
9697/6711Ncar 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 : 04-09-2014  
Date of Sample Receipt : 06-09-2014  
Date of Test : 06-09-2014 to 22-09-2014  
Sample Collected By : Darwesh Kumar  
Point of Collection : Dhulkhera

## RESULTS

| S.No | Parameters  | Observed Value | Testing Protocol         | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--------------------------|---|
| 1    | Carbon Monoxide [microgram/m <sup>3</sup> ]                         | 200            | IS 5182 (Part 10) : 1999 | 4000  |
| 2    | Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]     | 11.22          | IS 5182 (Part 6) : 2006  | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]      | 183.03         | IS 5182 (Part 4) : 1999  | 500   |
| 4    | Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ] | 22.79          | CPCB Guidelines          | 60.00   |
| 5    | Sulphur Dioxide [microgram/m <sup>3</sup> ]                         | 6.9            | IS 5182 (Part 2) : 2001  | 80.00   |
| 6    | Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]  | 58.82          | 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*

(Kavita Mathur)  
Authorized Signatory  
(Report No: A/1625)



# TEAM TEST HOUSE

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JDA/UDH

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

## TEST REPORT


Report No. : A/1626  
Job Identification : 2650  
Date : 22-09-2014  
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 : 04-09-2014  
Date of Sample Receipt : 06-09-2014  
Date of Test : 06-09-2014 to 22-09-2014  
Sample Collected By : Darwesh Kumar  
Point of Collection : Tiranga Pit (Mining Face)

## RESULTS

| S.No | Parameters  | Observed Value | Testing Protocol         | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--------------------------|---|
| 1    | Carbon Monoxide [microgram/m <sup>3</sup> ]                         | 260            | IS 5182 (Part 10) : 1999 | 4000  |
| 2    | Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]     | 14.36          | IS 5182 (Part 6) : 2006  | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]      | 215.65         | IS 5182 (Part 4) : 1999  | 500   |
| 4    | Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ] | 20.86          | CPCB Guidelines          | 60.00   |
| 5    | Sulphur Dioxide [microgram/m <sup>3</sup> ]                         | 7.27           | IS 5182 (Part 2) : 2001  | 80.00   |
| 6    | Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]  | 54             | IS 5182 (Part 23)        | 100.00  |

### Notes -

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(Rajesh Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: A/1626)



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|   |   |   |
|---|---|---|
| Office : E-65, Chitrangan Marg,<br>C-Scheme, Jaipur-302001<br>Phone : 0141-2173533, 2771865<br>Website : www.teamtesthouse.com<br>Report No. :<br>Job Identification :<br>Date :<br>Issued To : | <b>TEST REPORT</b><br>W/NABL/366<br>2967<br>27-10-2014<br>M/s Jindal Saw Limited.<br>Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.<br>9697/6711 Near Tiranga Hills Village: Pur.<br>Tehsil & District Bhilwara - 311802 (Rajasthan)<br>Mines<br>Potable and Domestic Water<br>25-09-2014<br>29-09-2014<br>29-09-2014 to 21-10-2014<br>Darwesh Kumar<br>Piezometer Well No.4 (Suras Mine) | Lab: G1-584, Sitapura Industrial Area<br>Tonk Road, JAIPUR-302022 Raj.<br>Ph.: 94602-22039, 94602-22049<br>E-mail : teamtesthouse@gmail.com<br>E-mail : teamtest@rediffmail.com |
| Type of Unit :<br>Type of Sample :<br>Date of Sample Collection/Monitoring :<br>Date of Sample Receipt :<br>Date of Test :<br>Sample Collected By :<br>Point of Collection :                    |   |   |

### 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]       | 262.75         | 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]               | 342.02         | IS 3025 (Part 32) : 1988    | 250.00  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 1162           | IS 3025 (Part 16) : 1984    | 500.00  | 2000.00  |
| 10   | Calcium [mg/l]                | 54.9           | IS 3025 (Part 40) : 1991    | 75.00   | 200.00   |
| 11   | Magnesium [mg/l]              | 30.48          | 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: [teamtest@rediffmail.com](mailto:teamtest@rediffmail.com)

## RESULTS

| Sl. No. | Parameters                    | Observed Value | Testing Protocol         | Limit                                 |   |
|---------|-------------------------------|----------------|--------------------------|---------------------------------------|---|
|         |                               |                |                          | Limit as per IS 10500 : 2012          | Limit in the absence of alternative Source as per IS 10500 : 2012 |
| 14      | Sulphate [mg/l]               | 118.75         | IS 3025 (Part 24) : 1986 | 200.00                                | 400.00  |
| 15      | Nitrate [mg/l]                | 2.07           | IS 3025 (Part 34) : 1988 | 45.00                                 | -   |
| 16      | Fluoride [mg/l]               | 0.50           | 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]         | 236            | 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]                  | 0.88           | 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]       | 89             | 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   |
| 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

*K.N. Mukhopadhyay*

(K.N. Mukhopadhyay)  
Authorized Signatory  
(Report No. W/NABL/365)



# TEAM TEST HOUSE

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|--|---|---|
| <p>Office : E-65, Chitrangan Marg,<br/>C-Scheme, Jaipur-302001<br/>Phone : 0141-2173533, 2771865<br/>Website : www.teamtesthouse.com</p> <p>Report No. :<br/>Job Identification<br/>Date :<br/>Issued To :</p> | <p><b>TEST REPORT</b></p> <p>W/NABL/367<br/>2968<br/>27-10-2014<br/>M/s Jindal Saw Limited,<br/>Dhedwas Iron Ore Copper &amp; Associated Minerals Mines Araj No.<br/>9697/6711 Near Tiranga Hills Village: Pur.<br/>Tehsil &amp; District Bhilwara - 311802 (Rajasthan)</p> | <p>Lab.: G1-584, Sitapura Industrial Area<br/>Tonk Road, JAIPUR-302022 Raj.<br/>Ph.: 94602-22039, 94602-22049<br/>E-mail : teamtesthouse@gmail.com<br/>E-mail : teamtest@rediffmail.com</p> |
| <p>Type of Unit :<br/>Type of Sample :<br/>Date of Sample Collection/Monitoring :<br/>Date of Sample Receipt :<br/>Date of Test :<br/>Sample Collected By :<br/>Point of Collection :</p>                      | <p>Mines<br/>Potable and Domestic Water<br/>25-09-2014<br/>29-09-2014<br/>29-09-2014 to 21-10-2014<br/>Darwesh Kumar<br/>Piezometer Well No.5</p>   |   |

### 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                            | 7.96           | IS 3025 (Part 11) : 1984    | 6.50 - 8.50   | -  |
| 6    | Hardness (total) [mg/l]       | 243.14         | IS 3025 (Part 21) : 1983    | 200.00  | 600.00   |
| 7    | Iron [mg/l]                   | 0.02           | IS 3025 (Part 53) : 2003    | 0.3   | -  |
| 8    | Chloride [mg/l]               | 913.52         | IS 3025 (Part 32) : 1988    | 250.00  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 1762           | IS 3025 (Part 16) : 1984    | 500.00  | 2000.00  |
| 10   | Calcium [mg/l]                | 25.1           | IS 3025 (Part 40) : 1991    | 75.00   | 200.00   |
| 11   | Magnesium [mg/l]              | 43.82          | 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

Email: teamtesthouse@gmail.com  
E-mail: teamtest@rediffmail.com

| Sl. No. | Parameters                    | Observed Value | Testing Protocol         | Limit (as per IS 10500 : 2012)        | Limit in the absence of alternative Source as per IS 10500 : 2012 |
|---------|-------------------------------|----------------|--------------------------|---------------------------------------|---|
| 14      | Sulphate [mg/l]               | 386.25         | IS 3025 (Part 24) : 1986 | 200.00                                | 400.00  |
| 15      | Nitrate [mg/l]                | 20.47          | IS 3025 (Part 34) : 1988 | 45.00                                 | -   |
| 16      | Fluoride [mg/l]               | 3.54           | 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]         | 264            | 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]       | 2              | IS 3025 (part 15) : 1984 | -                                     | -   |
| 26      | Total Chromium [mg/l]         | 0.03           | 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                                  | -   |

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*Rajesh Maheshwari*

(Rajesh Maheshwari)  
Technical Manager

*K.N. Mukhopadhyay*

(K.N. Mukhopadhyay)  
Authorized Signatory  
(Report No: W/NABL/367)



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## TEST REPORT

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Website : www.teamtesthouse.com

W/NABL/368

2969

27-10-2014

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)

Mines

Potable and Domestic Water

25-09-2014

29-09-2014

29-09-2014 to 21-10-2014

Darwesh Kumar

Piezometer Well No.6 (Dhukhera Mine)

Lab.: G1-584, Sitapura Industrial Area  
Tonk Road, JAIPUR-302022 Raj.  
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E-mail : teamtesthouse@gmail.com  
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Date :

Issued To :

Type of Unit :

Type of Sample :

Date of Sample Collection/Monitoring :

Date of Sample Receipt :

Date of Test :

Sample Collected By :

Point of Collection :

## 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                            | 7.04           | IS 3025 (Part 11) : 1984    | 6.50 - 8.50   | -  |
| 6    | Hardness (total) [mg/l]       | 443.14         | IS 3025 (Part 21) : 1983    | 200.00  | 600.00   |
| 7    | Iron [mg/l]                   | 0.02           | IS 3025 (Part 53) : 2003    | 0.3   | -  |
| 8    | Chloride [mg/l]               | 123.51         | IS 3025 (Part 32) : 1988    | 250.00  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 854            | IS 3025 (Part 16) : 1984    | 500.00  | 2000.00  |
| 10   | Calcium [mg/l]                | 84.71          | IS 3025 (Part 40) : 1991    | 75.00   | 200.00   |
| 11   | Magnesium [mg/l]              | 56.2           | 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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### RESULTS

| S.No | Parameters                    | Observed Value | Testing Protocol         | Limit as per IS 10500 : 2012          | Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|-------------------------------|----------------|--------------------------|---------------------------------------|---|
| 14   | Sulphate [mg/l]               | 86.25          | IS 3025 (Part 24) : 1986 | 200.00                                | 400.00  |
| 15   | Nitrate [mg/l]                | 61.91          | IS 3025 (Part 34) : 1988 | 45.00                                 | -   |
| 16   | Fluoride [mg/l]               | 1.01           | 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]         | 272            | 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]                  | 0.58           | 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]       | 12             | 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                                  | -   |

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(Rajesh Maheshwari)  
Technical Manager

  
(K.N. Mukhopadhyay)  
Authorized Signatory  
(Report No: W/NABL/068)



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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 : teamtest@rediffmail.com

## TEST REPORT


Report No : W/371  
Date : 29/10/2014  
Issued to : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines  
Araji No. 9697/6711 Near Tiranga Hills Village: Pur.  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Water Level Measurement  
Date of Measurement : 25/09/2014  
Date of Test : 29/09/2014  
Sample Collected By : Mr. Darwesh Kumar


## RESULTS

| S.No | Location                                     | Water Level in Meters (bgl) |
|------|--|-----------------------------|
| 1    | Peizometer No.1 (Near Water Processing Tank) | 14.5                        |
| 2    | Peizometer No.2 (Gate No.6)                  | 7.9                         |
| 3    | Peizometer No.3 (Suras Pit)                  | 2.5                         |
| 4    | Peizometer No.4 (Suras Pit)                  | 5.6                         |
| 5    | Peizometer No.5 (Dhulkhera Pit)              | 1.9                         |
| 6    | Peizometer No.6 (Dhulkhera Pit)              | 7.9                         |

**Note: -**

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

  
Rajesh Maheshwari  
Technical Manager

  
K N Mukhopadhyay  
Authorized Signatory  
(Report No: W/371)



# TEAM TEST HOUSE

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



T-1736, 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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## TEST REPORT

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E-mail : teamtest@rediffmail.com

Report No. :  
Job Identification. :

W/NABL/306

2646

Date :

26-09-2014

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 & Domestic Water

Date of Sample Collection/Monitoring : 05-09-2014

Date of Sample Receipt : 06-09-2014

Date of Test : 06-09-2014 to 25-09-2014

Sample Collected By : Darwesh Kumar

Point of Collection : Kothari River

## RESULTS

| S.No | Parameters                    | Observed Value | Testing Protocol            | Desirable Limits 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                            | 7.31           | IS 3025 (Part 11) : 1984    | 6.50 - 8.50                             | -  |
| 6    | Hardness (total) [mg/l]       | 157.01         | IS 3025 (Part 21) : 1983    | 200.00                                  | 600.00   |
| 7    | Iron [mg/l]                   | 0.02           | IS 3025 (Part 53) : 2003    | 0.3                                     | -  |
| 8    | Chloride [mg/l]               | 24.7           | IS 3025 (Part 32) : 1988    | 250.00                                  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 215            | IS 3025 (Part 16) : 1984    | 500.00                                  | 2000.00  |
| 10   | Calcium [mg/l]                | 38.88          | IS 3025 (Part 40) : 1991    | 75.00                                   | 200.00   |
| 11   | Magnesium [mg/l]              | 13.63          | 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  |
| 14   | Sulphate [mg/l]               | 25.63          | IS 3025 (Part 24) : 1986    | 200.00                                  | 400.00   |

Note:

Continue to next page...

*Bathu*



# TEAM TEST HOUSE

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NABL

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JDA/UDH

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Ph : 94602-22039, 94602-22049

Website : [www.teamtesthouse.com](http://www.teamtesthouse.com)

## RESULTS

| S.No | Parameters                       | Observed Value | Testing Protocol         | Desirable limit<br>As per IS 10500 : 2012          | Standard<br>Permissible<br>Limit in the<br>absence of<br>alternative<br>Source as per<br>IS 10500 :<br>2012 |
|------|----------------------------------|----------------|--------------------------|--|---|
| 15   | Nitrate [mg/l]                   | 8.37           | IS 3025 (Part 34) : 1988 | 45.00  | -   |
| 16   | Fluoride [mg/l]                  | 0.31           | 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]            | 144            | 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]                     | 0.42           | IS 13428 (Annexure H)    | 1.00   | 5.00  |
| 24   | Total coliform [MPN/100ml]       | 1132           | IS 5401 (Part 2) : 2002  | Shall not be<br>detectable in any<br>100 ml sample | -   |
| 25   | Suspended Solids [mg/l]          | 9              | IS 3025 (part 15) : 1984 | -  | -   |
| 26   | Total Chromium [mg/l]            | BDL (< 0.01)   | APHA :2012 :3111- B      | 0.05   | -   |
| 27   | Free Residual Chlorine<br>[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

*Mathur*

(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/306 )



# TEAM TEST HOUSE

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



T-1736, T-2276

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JDA/UDH

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Website : www.teamtesthouse.com  
Job Identification :

## TEST REPORT

WW/NABL/287

2635

26-09-2014

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)

Mines

Wastewater Sample

04-09-2014

06-09-2014

06-09-2014 to 26-09-2014

Darwesh Kumar

STP Incoming

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

Date :

Issued To :

Type of Unit :

Type of Sample :

Date of Sample Collection/Monitoring :

Date of Sample Receipt :

Date of Test :

Sample Collected By :

Point of Collection :

## RESULTS

| S.No | Parameters                             | Observed Value | Testing Protocol     | Limits as per Environment protection rules, 1986 |
|------|--|----------------|----------------------|--|
| 1    | Suspended Solids [mg/l]                | 9              | APHA.2012:2540-D     | 100  |
| 2    | Biochemical Oxygen Demand (BOD) [mg/l] | 6              | APHA 2012:5210-B     | 30   |
| 3    | Chemical Oxygen Demand (COD) [mg/l]    | 25.54          | APHA:2012 : 5220-C   | 250  |
| 4    | pH                                     | 7.90           | APHA:2012 : 4500 H+B | 5.5 - 9.0  |
| 5    | Oil & Grease [mg/l]                    | 4              | APHA-2012 :5520-B    | 10   |

Notes :-

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*Rajesh*

(Rajesh Maheshwari)  
Technical Manager

*Kavita*

(Kavita Mathur)  
Authorized Signatory  
(Report No: WW/NABL/287 )



# TEAM TEST HOUSE

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



T-1736, T-2276

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Report No. :  
Job Identification. :

Date :

Issued To :

## TEST REPORT

WW/NABL/286

2634

26-09-2014

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 :

Wastewater Sample

Date of Sample Collection/Monitoring :

04-09-2014

Date of Sample Receipt :

06-09-2014

Date of Test :

06-09-2014 to 26-09-2014

Sample Collected By :

Darwesh Kumar

Point of Collection :

Tailing Recycling

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

## RESULTS

| S No | Parameters                             | Observed Value | Testing Protocol     | Limits as per Environment protection rules. 1986 |
|------|--|----------------|----------------------|--|
| 1    | Suspended Solids [mg/l]                | 8              | APHA:2012:2540-D     | 100  |
| 2    | Biochemical Oxygen Demand (BOD) [mg/l] | 2.8            | APHA:2012:5210-B     | 30   |
| 3    | Chemical Oxygen Demand (COD) [mg/l]    | 29.57          | APHA:2012 : 5220-C   | 250  |
| 4    | pH                                     | 7.67           | APHA:2012 : 4500 H+B | 5.5 - 9.0  |
| 5    | Oil & Grease [mg/l]                    | 4              | APHA-2012 :5520-B    | 10   |

Notes :-

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*Rajesh*

(Rajesh Maheshwari)  
Technical Manager

*Kavita Mathur*

(Kavita Mathur)  
Authorized Signatory  
(Report No: WW/NABL/286 )



# TEAM TEST HOUSE

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



T-1736, T-2276

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Phone : 0141-2173533, 2771865

Website : www.teamtesthouse.com

Job Identification :

Date :

Issued To :

Type of Unit :

Type of Sample :

Date of Sample Collection/Monitoring :

Date of Sample Receipt :

Date of Test :

Sample Collected By :

Point of Collection :

## TEST REPORT

WW/NABL/285

2633

26-09-2014

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)

Mines

Wastewater Sample

04-09-2014

06-09-2014

06-09-2014 to 26-09-2014

Darwesh Kumar

Tailing Pond

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

## RESULTS

| S.No | Parameters                             | Observed Value | Testing Protocol     | Limits as per Environment protection rules, 1986 |
|------|--|----------------|----------------------|--|
| 1    | Suspended Solids [mg/l]                | 5              | APHA.2012:2540-D     | 100  |
| 2    | Biochemical Oxygen Demand (BOD) [mg/l] | 7.2            | APHA 2012:5210-B     | 30   |
| 3    | Chemical Oxygen Demand (COD) [mg/l]    | 43.01          | APHA:2012 : 5220-C   | 250  |
| 4    | pH                                     | 7.76           | 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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*Rajan*

(Rajesh Maheshwari)  
Technical Manager

*Kavita*

(Kavita Mathur)  
Authorized Signatory  
(Report No: WW/NABL/285)



# TEAM TEST HOUSE

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E-mail : teamtest@rediffmail.com

## TEST REPORT

A/1630

Report No

Date

22/09/2014

Issued to

M/s. Jindal Saw Limited  
Dhedwas Iron Ore Copper & Associated Minerals  
Mines . Araji no. 9697/6711 Near Tiranga Hills  
Village - Pur Tehsil & District – Bhilwara -- 311802  
(Rajasthan)

Type of Unit

Mines

Date of Monitoring

01/09/2014 to 05/09/2014

Date of Sample Receipt

06/09/2014

Date of Test

06/09/2014

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 | 66.2                                  | 55.7                                    |
| 2.      | Suras Pit (About 10 meter distance of loading point)                | Industrial Area | 64.9                                  | 58.7                                    |
| 3       | Tiranga Pit (About 10 meter distance of raw material loading point) | Industrial Area | 68.5                                  | 57.2                                    |
| 4       | Filter Fresh Building   | Industrial Area | 58.6                                  | 49.5                                    |
| 5       | Near Raw Material Storage Yard                                      | Industrial Area | 61.7                                  | 59.4                                    |
| 6       | BNF CCR Building  | Industrial Area | 67.4                                  | 60.2                                    |
| 7       | Tata Blue Scope Shed  | Industrial Area | 64.8                                  | 57.5                                    |
| 8       | CCR Building  | Industrial Area | 65.4                                  | 57.1                                    |

### 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         |

#### 1. Note: -

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - A/1630)



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Website : www.teamtesthouse.com

Report No.  
Date  
Issued to

## TEST REPORT

A/1629

22/09/2014

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)

Mines

Lab.: G1-584, Sitapura Industrial Area

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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

01/09/2014 to 05/09/2014

06/09/2014

06/09/2014

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   | 52.3                                  | 41.7                                    |
| 2.      | Samodi Village ( Near Balaji Temple)             | Rural Area   | 53.2                                  | 42.5                                    |
| 3.      | Suras Village (Nr. Roshanlal Gurjar Home)        | Rural Area   | 50.7                                  | 39.5                                    |
| 4.      | Gandhi Sagar Village (Gandhi park)               | Rural Area   | 53.2                                  | 42.7                                    |
| 5.      | Kanoli Village (Nr. Kuldeep Singh Ranawat House) | Rural Area   | 50.6                                  | 39.8                                    |
| 6.      | Dhulkhera Village (Nr. Mulla Ram Saini House)    | Rural Area   | 52.6                                  | 41.5                                    |
| 7.      | Dariba Village (Nr. Ayurvedic Dispensary)        | Rural Area   | 49.8                                  | 40.3                                    |


## 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/1629)



# TEAM TEST HOUSE

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



T-1736, T-2276

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JDA/UDH

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Website : www.teamtesthouse.com  
Job Identification :

## TEST REPORT

Lab.: G1-584, Sitapura Industrial Area  
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Report No. : W/NABL/296  
2636  
Date : 26-09-2014  
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 & Domestic Water  
Date of Sample Collection/Monitoring : 04-09-2014  
Date of Sample Receipt : 06-09-2014  
Date of Test : 06-09-2014 to 26-09-2014  
Sample Collected By : Darwesh Kumar  
Point of Collection : Pur Village (Near Ganesh Mandir)

## RESULTS

| S.No | Parameters                    | Observed Value | Testing Protocol            | Desirable Limits 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                            | 7.16           | IS 3025 (Part 11) : 1984    | 6.50 - 8.50                             | -  |
| 6    | Hardness (total) [mg/l]       | 400            | IS 3025 (Part 21) : 1983    | 200.00                                  | 600.00   |
| 7    | Iron [mg/l]                   | 0.02           | IS 3025 (Part 53) : 2003    | 0.3                                     | -  |
| 8    | Chloride [mg/l]               | 132.06         | IS 3025 (Part 32) : 1988    | 250.00                                  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 533            | IS 3025 (Part 16) : 1984    | 500.00                                  | 2000.00  |
| 10   | Calcium [mg/l]                | 73.6           | IS 3025 (Part 40) : 1991    | 75.00                                   | 200.00   |
| 11   | Magnesium [mg/l]              | 50.54          | 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  |
| 14   | Sulphate [mg/l]               | 40.0           | IS 3025 (Part 24) : 1986    | 200.00                                  | 400.00   |

Note:

Continue to next page...

*Blaker*



# TEAM TEST HOUSE

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



T-1736, 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

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur-302001  
Phone : 0141-2173533, 2771865  
Web Site : [www.teamtesthouse.com](http://www.teamtesthouse.com)

Lab.: G1-584, Sitapura Industrial Area  
Tonk Road, JAIPUR-302022 Raj.  
Ph : 94602-22039, 94602-22049  
E-mail : [info@teamtesthouse.com](mailto:info@teamtesthouse.com)  
E-mail : [is10500@teamtesthouse.com](mailto:is10500@teamtesthouse.com)

### RESULTS

| S.No | Parameters                    | Observed Value | Testing Protocol         | Desirable Limit<br>As per IS 10500 : 2012          | Standard<br>Permissible<br>Limit in the<br>absence of<br>alternative<br>Source as per<br>IS 10500 :<br>2012 |
|------|-------------------------------|----------------|--------------------------|--|---|
| 15   | Nitrate [mg/l]                | 18.52          | IS 3025 (Part 34) : 1988 | 45.00  | -   |
| 16   | Fluoride [mg/l]               | 1.05           | 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]         | 260            | 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]                  | 0.52           | IS 13428 (Annexure H)    | 1.00   | 5.00  |
| 24   | Total coliform [MPN/100ml]    | Not Detected   | IS 5401 (Part 2) : 2002  | Shall not be<br>detectable in any<br>100 ml sample | -   |
| 25   | Suspended Solids [mg/l]       | 9              | 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  | 1.0   |
| 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*

(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/296 )



# TEAM TEST HOUSE

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



T-1736, T-2276

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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C-Scheme, Jaipur-302001  
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Report No. :  
Website : www.teamtesthouse.com  
Job Identification. :

## TEST REPORT

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

Date :

W/NABL/297

2637

26-09-2014

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 :

Potable & Domestic Water

Date of Sample Collection/Monitoring : 04-09-2014

Date of Sample Receipt : 06-09-2014

Date of Test : 06-09-2014 to 26-09-2014

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            | Desirable Limits 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                            | 7.40           | IS 3025 (Part 11) : 1984    | 6.50 - 8.50                             | -  |
| 6    | Hardness (total) [mg/l]       | 412            | 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]               | 55.1           | IS 3025 (Part 32) : 1988    | 250.00                                  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 487            | IS 3025 (Part 16) : 1984    | 500.00                                  | 2000.00  |
| 10   | Calcium [mg/l]                | 120            | IS 3025 (Part 40) : 1991    | 75.00                                   | 200.00   |
| 11   | Magnesium [mg/l]              | 27.22          | 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  |
| 14   | Sulphate [mg/l]               | 46.25          | IS 3025 (Part 24) : 1986    | 200.00                                  | 400.00   |

Note:

Continue to next page...

*Darwesh*



# TEAM TEST HOUSE

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



T-1736, T-2276

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ISO 9001:2008

OHSAS 18001:2007

JDA/UDH

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C-Scheme, Jaipur-302001  
Phone : 0141-2173533, 2771865

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

Website : [www.teamtesthouse.com](http://www.teamtesthouse.com)

### RESULTS

| S.No | Parameters                       | Observed Value | Testing Protocol         | Desirable limits<br>as per IS 10500 : 2012         | Permissible<br>Limit in the<br>absence of<br>alternative<br>Source as per<br>IS 10500 :<br>2012 |
|------|----------------------------------|----------------|--------------------------|--|---|
| 15   | Nitrate [mg/l]                   | 32.78          | IS 3025 (Part 34) : 1988 | 45.00  | -   |
| 16   | Fluoride [mg/l]                  | 0.92           | 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]            | 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]                     | 0.84           | IS 13428 (Annexure H)    | 1.00   | 5.00  |
| 24   | Total coliform [MPN/100ml]       | Not detected   | IS 5401 (Part 2) : 2002  | Shall not be<br>detectable in any<br>100 ml sample | -   |
| 25   | Suspended Solids [mg/l]          | 3              | IS 3025 (part 15) : 1984 | -  | -   |
| 26   | Total Chromium [mg/l]            | 0.02           | APHA :2012 :3111- B      | 0.05   | -   |
| 27   | Free Residual Chlorine<br>[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*

(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/297 )



# TEAM TEST HOUSE

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



T-1736, T-2276

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

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RSPCB

ISO 9001:2008

OHSAS 18001:2007

JDA/UDH

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C-Scheme, Jaipur-302001  
Phone : 0141-27173533, 2771865  
Report No. :  
Website : www.teamtesthouse.com  
Job Identification. :

## TEST REPORT

W/NABL/298

2638

26-09-2014

Date :

Issued To :

M/s Jindal Saw Limited,

Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.

9697/6711Near Tiranga Hills Village: Pur,

Tehsil & District Bhilwara - 311802 (Rajasthan)

Type of Unit :

Mines

Type of Sample :

Potable & Domestic Water

Date of Sample Collection/Monitoring : 05-09-2014

Date of Sample Receipt :

06-09-2014

Date of Test :

06-09-2014 to 26-09-2014

Sample Collected By :

Darwesh Kumar

Point of Collection :

Kanoli Village (Govt.Handpump water of Govt. Middle school)

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

## RESULTS

| S.No | Parameters                    | Observed Value | Testing Protocol            | Desirable Limits 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                            | 7.57           | IS 3025 (Part 11) : 1984    | 6.50 - 8.50                             | -  |
| 6    | Hardness (total) [mg/l]       | 124            | 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]               | 23.75          | IS 3025 (Part 32) : 1988    | 250.00                                  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 325            | 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]              | 7.78           | 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  |
| 14   | Sulphate [mg/l]               | 15.25          | IS 3025 (Part 24) : 1986    | 200.00                                  | 400.00   |

Note:

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*Mahesh*



# TEAM TEST HOUSE

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Ph.: 94602-22039, 94602-22049  
E-mail : [info@teamtesthouse.com](mailto:info@teamtesthouse.com)  
E-mail : [is10500@teamtesthouse.com](mailto:is10500@teamtesthouse.com)

## RESULTS

| S.No | Parameters                       | Observed Value | Testing Protocol         | Desirable Limits<br>As per IS 10500 : 2012         | Standard<br>Permissible<br>Limit in the<br>absence of<br>alternative<br>Source as per<br>IS 10500 :<br>2012 |
|------|----------------------------------|----------------|--------------------------|--|---|
| 15   | Nitrate [mg/l]                   | 12.59          | IS 3025 (Part 34) : 1988 | 45.00  | -   |
| 16   | Fluoride [mg/l]                  | 0.50           | 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]            | 128            | 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]                     | 0.55           | IS 13428 (Annexure H)    | 1.00   | 5.00  |
| 24   | Total coliform [MPN/100ml]       | Not Detected   | IS 5401 (Part 2) : 2002  | Shall not be<br>detectable in any<br>100 ml sample | -   |
| 25   | Suspended Solids [mg/l]          | 3              | IS 3025 (part 15) : 1984 | -  | -   |
| 26   | Total Chromium [mg/l]            | 0.01           | APHA :2012 :3111- B      | 0.05   | -   |
| 27   | Free Residual Chlorine<br>[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/298 )



# TEAM TEST HOUSE

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T-1736, T-2276

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C-Scheme, Jaipur-302001  
Phone : 0141-2173533, 2771865  
Website : www.teamtesthouse.com  
Job Identification :

## TEST REPORT

W/NABL/299

2639

26-09-2014

Issued To :

M/s Jindal Saw Limited,

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

Tehsil & District Bhilwara - 311802 (Rajasthan)

Type of Unit :

Mines

Type of Sample :

Potable & Domestic Water

Date of Sample Collection/Monitoring : 04-09-2014

Date of Sample Receipt : 06-09-2014

Date of Test : 06-09-2014 to 26-09-2014

Sample Collected By :

Darwesh Kumar

Point of Collection :

Gandhi sagar village (Tubewell water of Gandhi park)

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

## RESULTS

| S.No | Parameters                    | Observed Value | Testing Protocol            | Desirable Limits 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                            | 7.47           | 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]                   | 0.03           | IS 3025 (Part 53) : 2003    | 0.3                                     | -  |
| 8    | Chloride [mg/l]               | 427.53         | IS 3025 (Part 32) : 1988    | 250.00                                  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 1664           | 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]              | 72.9           | 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  |
| 14   | Sulphate [mg/l]               | 153.75         | IS 3025 (Part 24) : 1986    | 200.00                                  | 400.00   |

Note:

Continue to next page...

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# TEAM TEST HOUSE

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



T-1736, T-2276

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E-mail : [info@teamtesthouse.com](mailto:info@teamtesthouse.com)  
E-mail : [is10500@teamtesthouse.com](mailto:is10500@teamtesthouse.com)

| RESULTS |                               |                |                          |  |  |
|---------|-------------------------------|----------------|--------------------------|--|--|
| S.No    | Parameters                    | Observed Value | Testing Protocol         | Desirable limit as per IS 10500 : 2012       | Standard Limit in the absence of alternative Source as per IS 10500 : 2012 |
| 15      | Nitrate [mg/l]                | 33.65          | IS 3025 (Part 34) : 1988 | 45.00  | -  |
| 16      | Fluoride [mg/l]               | 1.13           | 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]                   | 0.01           | IS 3025 (Part 49) : 1994 | 5.00   | 15.00  |
| 21      | Alkalinity - T [mg/l]         | 520            | 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]    | Not Detected   | IS 5401 (Part 2) : 2002  | Shall not be detectable in any 100 ml sample | -  |
| 25      | Suspended Solids [mg/l]       | 4              | 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  | 1.0  |
| 28      | selenium [mg/l]               | BDL (< 0.01)   | IS 3025 (Part 56) : 2003 | 0.01   | -  |

Notes :-

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(Rajesh Maheshwari)  
Technical Manager

(Kavita Mathur)  
Authorized Signatory  
(Report No. W/NABL/299 )



# TEAM TEST HOUSE

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



T-1736, 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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C-Scheme, Jaipur-302001  
Phone : 0141-3173533, 2771865  
Report No. :  
Website : www.teamtesthouse.com  
Job Identification. :

## TEST REPORT

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Tonk Road, JAIPUR-302022 Raj.  
Ph.: 94602-22039, 94602-22049  
E-mail : teamtesthouse@gmail.com  
E-mail : teamtest@rediffmail.com

W/NABL/300

2640

26-09-2014

Date :

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 & Domestic Water

Date of Sample Collection/Monitoring : 04-09-2014

Date of Sample Receipt :

06-09-2014

Date of Test :

06-09-2014 to 26-09-2014

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            | Desirable Limits as Per IS 10500 : 2012 | Standard Permissible limits in the absence of Alternate Sources as per IS 10500 :1991 |
|------|-------------------------------|----------------|-----------------------------|---|---|
| 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                            | 7.02           | IS 3025 (Part 11) : 1984    | 6.50 - 8.50                             | -   |
| 6    | Hardness (total) [mg/l]       | 340            | 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]               | 66.5           | IS 3025 (Part 32) : 1988    | 250.00                                  | 1000.00   |
| 9    | Total Dissolved Solids [mg/l] | 629            | IS 3025 (Part 16) : 1984    | 500.00                                  | 2000.00   |
| 10   | Calcium [mg/l]                | 126.4          | IS 3025 (Part 40) : 1991    | 75.00                                   | 200.00  |
| 11   | Magnesium [mg/l]              | 5.83           | 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   |
| 14   | Sulphate [mg/l]               | 58.75          | IS 3025 (Part 24) : 1986    | 200.00                                  | 400.00  |

Note:

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# TEAM TEST HOUSE

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T-1736, T-2276

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Office : E-65, Chitranganj Marg,  
C-Scheme, Jaipur-302001  
Phone : 0141-2173533, 2771865

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


Website : [www.teamtesthouse.com](http://www.teamtesthouse.com)

### RESULTS

| S.No | Parameters                    | Observed Value | Testing Protocol         | Desirable limit<br>As per IS 10500 : 2012    | Standard<br>Permissible<br>limits in the<br>absence of<br>Alternate<br>Sources as<br>per IS 10500 : 1991 |
|------|-------------------------------|----------------|--------------------------|--|--|
| 15   | Nitrate [mg/l]                | 13.68          | IS 3025 (Part 34) : 1988 | 45.00  | -  |
| 16   | Fluoride [mg/l]               | 0.75           | 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]         | 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]                  | 0.81           | 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]       | 4              | IS 3025 (part 15) : 1984 | -  | -  |
| 26   | Total Chromium [mg/l]         | 0.03           | 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 Maheshwari)  
Technical Manager

  
(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/300 )



# TEAM TEST HOUSE

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Phone : 0141-2173533, 2771865  
Report No. :  
Website : www.teamtesthouse.com  
Job Identification :

## TEST REPORT

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

W/NABL/301  
2641  
Date : 26-09-2014  
Issued To : M/s Jindal Saw Limited,  
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No.  
9697/6711Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 05-09-2014  
Date of Sample Receipt : 06-09-2014  
Date of Test : 06-09-2014 to 26-09-2014  
Sample Collected By : Darwesh Kumar  
Point of Collection : Dariba Village (Govt. Tubewell Water-Aruvedic Dispansary)

## RESULTS

| S.No | Parameters                    | Observed Value | Testing Protocol            | Desirable Limits 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                            | 7.09           | IS 3025 (Part 11) : 1984    | 6.50 - 8.50                             | -  |
| 6    | Hardness (total) [mg/l]       | 560            | IS 3025 (Part 21) : 1983    | 200.00                                  | 600.00   |
| 7    | Iron [mg/l]                   | 0.04           | IS 3025 (Part 53) : 2003    | 0.3                                     | -  |
| 8    | Chloride [mg/l]               | 142.51         | IS 3025 (Part 32) : 1988    | 250.00                                  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 879            | IS 3025 (Part 16) : 1984    | 500.00                                  | 2000.00  |
| 10   | Calcium [mg/l]                | 184            | 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  |
| 14   | Sulphate [mg/l]               | 67.88          | IS 3025 (Part 24) : 1986    | 200.00                                  | 400.00   |

Note:

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Ph.: 94602 22039, 94602 22049

Website : [www.teamtesthouse.com](http://www.teamtesthouse.com)

### RESULTS

| S.No | Parameters                       | Observed Value | Testing Protocol         | Desirable limit<br>As per IS 10500 : 2012          | Permissible<br>Limit in the<br>absence of<br>alternative<br>Source as per<br>IS 10500 :<br>2012 |
|------|----------------------------------|----------------|--------------------------|--|---|
| 15   | Nitrate [mg/l]                   | BDL (<1)       | IS 3025 (Part 34) : 1988 | 45.00  | -   |
| 16   | Fluoride [mg/l]                  | 0.50           | 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]            | 340            | 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]                     | 0.71           | IS 13428 (Annexure H)    | 1.00   | 5.00  |
| 24   | Total coliform [MPN/100ml]       | Not Detected   | IS 5401 (Part 2) : 2002  | Shall not be<br>detectable in any<br>100 ml sample | -   |
| 25   | Suspended Solids [mg/l]          | 5              | IS 3025 (part 15) : 1984 | -  | -   |
| 26   | Total Chromium [mg/l]            | 0.03           | APHA :2012 :3111- B      | 0.05   | -   |
| 27   | Free Residual Chlorine<br>[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*

(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/301 )



# TEAM TEST HOUSE

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JDA/UDH

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Phone : 0141-2173533, 2771865  
Report No. :  
Website : www.teamtesthouse.com  
Job Identification :

## TEST REPORT

W/NABL/302  
2642

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

Date :

26-09-2014

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 :

Potable & Domestic Water

Date of Sample Collection/Monitoring : 05-09-2014

Date of Sample Receipt : 06-09-2014

Date of Test : 06-09-2014 to 26-09-2014

Sample Collected By : Darvesh Kumar

Point of Collection : Dhulkhera (Handpump Rajeev Gandhi Pathsala Front of Dhulkhera  
Mine Pit)

## RESULTS

| S.No | Parameters                    | Observed Value | Testing Protocol            | Desirable Limits 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                            | 6.95           | 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]                   | 0.04           | IS 3025 (Part 53) : 2003    | 0.3                                     | -  |
| 8    | Chloride [mg/l]               | 102.61         | IS 3025 (Part 32) : 1988    | 250.00                                  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 805            | 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]              | 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  |
| 14   | Sulphate [mg/l]               | 70.0           | IS 3025 (Part 24) : 1986    | 200.00                                  | 400.00   |

Note:

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*Mathur*



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E-mail : [info@teamtesthouse.com](mailto:info@teamtesthouse.com)  
E-mail : [base@teamtesthouse.com](mailto:base@teamtesthouse.com)

### RESULTS

| S.No | Parameters                       | Observed Value | Testing Protocol         | Desirable Limits<br>as per IS 10500 : 2012         | Standard<br>Permissible<br>Limit in the<br>absence of<br>alternative<br>Source as per<br>IS 10500 :<br>2012 |
|------|----------------------------------|----------------|--------------------------|--|---|
| 15   | Nitrate [mg/l]                   | 35.59          | IS 3025 (Part 34) : 1988 | 45.00  | -   |
| 16   | Fluoride [mg/l]                  | 0.45           | 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]            | 312            | 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]                     | 0.51           | IS 13428 (Annexure H)    | 1.00   | 5.00  |
| 24   | Total coliform [MPN/100ml]       | Not Detected   | IS 5401 (Part 2) : 2002  | Shall not be<br>detectable in any<br>100 ml sample | -   |
| 25   | Suspended Solids [mg/l]          | 5              | IS 3025 (part 15) : 1984 | -  | -   |
| 26   | Total Chromium [mg/l]            | 0.01           | APHA :2012 :3111- B      | 0.05   | -   |
| 27   | Free Residual Chlorine<br>[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/302 )



# TEAM TEST HOUSE

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Job Identification :

### TEST REPORT

W/NABL/303  
2643

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

Date : 26-09-2014  
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 : Potable & Domestic Water  
Date of Sample Collection/Monitoring : 05-09-2014  
Date of Sample Receipt : 06-09-2014  
Date of Test : 06-09-2014 to 26-09-2014  
Sample Collected By : Darwesh Kumar  
Point of Collection : Plant Office (Drinking Water)

### RESULTS

| S.No | Parameters                    | Observed Value | Testing Protocol            | Desirable Limits 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                            | 6.51           | IS 3025 (Part 11) : 1984    | 6.50 - 8.50                             | -  |
| 6    | Hardness (total) [mg/l]       | 48             | IS 3025 (Part 21) : 1983    | 200.00                                  | 600.00   |
| 7    | Iron [mg/l]                   | 0.02           | IS 3025 (Part 53) : 2003    | 0.3                                     | -  |
| 8    | Chloride [mg/l]               | 38             | IS 3025 (Part 32) : 1988    | 250.00                                  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 78             | IS 3025 (Part 16) : 1984    | 500.00                                  | 2000.00  |
| 10   | Calcium [mg/l]                | 17.6           | IS 3025 (Part 40) : 1991    | 75.00                                   | 200.00   |
| 11   | Magnesium [mg/l]              | 0.97           | 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  |
| 14   | Sulphate [mg/l]               | 21.25          | IS 3025 (Part 24) : 1986    | 200.00                                  | 400.00   |

*Author*

Note:

Continue to next page...



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E-mail : [lab@teamtesthouse.com](mailto:lab@teamtesthouse.com)

### RESULTS

| S.No | Parameters                    | Observed Value | Testing Protocol         | Desirable Limit<br>As per IS 10500 : 2012    | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|-------------------------------|----------------|--------------------------|--|--|
| 15   | Nitrate [mg/l]                | BDL (< 0.1)    | IS 3025 (Part 34) : 1988 | 45.00  | -  |
| 16   | Fluoride [mg/l]               | 0.17           | 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]         | 4              | 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]                  | 0.39           | 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   | -  |

Notes :-

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*Rajesh*

(Rajesh Maheshwari)  
Technical Manager

*Kavita*

(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/303 )



# TEAM TEST HOUSE

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



T-1736, 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

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur-302001  
Phone : 0141-2173533, 2771865  
Website : www.teamtesthouse.com  
Job Identification. :

## TEST REPORT

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

Report No. :

W/NABL/304

Date :

2644

Issued To :

26-09-2014

Type of Unit :

M/s Jindal Saw Limited,

Type of Sample :

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

Date of Sample Collection/Monitoring :

Mines

Date of Sample Receipt :

Potable & Domestic Water

Date of Test :

05-09-2014

Sample Collected By :

06-09-2014

Point of Collection :

06-09-2014 to 25-09-2014

Darwesh Kumar

Somodi Pond

## RESULTS

| S.No | Parameters                    | Observed Value | Testing Protocol            | Desirable Limits 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                            | 6.96           | IS 3025 (Part 11) : 1984    | 6.50 - 8.50                             | -  |
| 6    | Hardness (total) [mg/l]       | 57.69          | IS 3025 (Part 21) : 1983    | 200.00                                  | 600.00   |
| 7    | Iron [mg/l]                   | 0.04           | IS 3025 (Part 53) : 2003    | 0.3                                     | -  |
| 8    | Chloride [mg/l]               | 9.5            | IS 3025 (Part 32) : 1988    | 250.00                                  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 115            | IS 3025 (Part 16) : 1984    | 500.00                                  | 2000.00  |
| 10   | Calcium [mg/l]                | 13.85          | IS 3025 (Part 40) : 1991    | 75.00                                   | 200.00   |
| 11   | Magnesium [mg/l]              | 5.61           | 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  |
| 14   | Sulphate [mg/l]               | 10.87          | IS 3025 (Part 24) : 1986    | 200.00                                  | 400.00   |

Note:

Continue to next page...

*Blaker*



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RSPCB

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OHSAS 18001:2007

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Ph : 94602-22039, 94602-22049  
E-mail : [teamtesthouse@gmail.com](mailto:teamtesthouse@gmail.com)  
E-mail : [rajasthan10500@rediffmail.com](mailto:rajasthan10500@rediffmail.com)

## RESULTS

| S.No | Parameters                    | Observed Value | Testing Protocol         | Desirable Limits as per IS 10500 : 2012      | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|-------------------------------|----------------|--------------------------|--|--|
| 15   | Nitrate [mg/l]                | 11.38          | IS 3025 (Part 34) : 1988 | 45.00  | -  |
| 16   | Fluoride [mg/l]               | 0.15           | 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]                   | 0.06           | IS 3025 (Part 49) : 1994 | 5.00   | 15.00  |
| 21   | Alkalinity - T [mg/l]         | 48             | 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]                  | 0.25           | IS 13428 (Annexure H)    | 1.00   | 5.00   |
| 24   | Total coliform [MPN/100ml]    | 3132           | IS 5401 (Part 2) : 2002  | Shall not be detectable in any 100 ml sample | -  |
| 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   | -  |

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*Rajesh*

(Rajesh Maheshwari)  
Technical Manager

*Mathur*

(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/304 )



# TEAM TEST HOUSE

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



T-1736, T-2276

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Website : www.teamtesthouse.com

### TEST REPORT

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

Report No. :  
Job Identification :  
Date :  
Issued To :

W/NABL/305  
2645  
26-09-2014  
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 & Domestic Water  
Date of Sample Collection/Monitoring : 05-09-2014  
Date of Sample Receipt : 06-09-2014  
Date of Test : 06-09-2014 to 25-09-2014  
Sample Collected By : Darwesh Kumar  
Point of Collection : Meja Dam

### RESULTS

| S.No | Parameters                    | Observed Value | Testing Protocol            | Desirable Limits 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                            | 6.96           | IS 3025 (Part 11) : 1984    | 6.50 - 8.50                             | -  |
| 6    | Hardness (total) [mg/l]       | 53.85          | 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]               | 7.6            | IS 3025 (Part 32) : 1988    | 250.00                                  | 1000.00  |
| 9    | Total Dissolved Solids [mg/l] | 99             | IS 3025 (Part 16) : 1984    | 500.00                                  | 2000.00  |
| 10   | Calcium [mg/l]                | 13.85          | IS 3025 (Part 40) : 1991    | 75.00                                   | 200.00   |
| 11   | Magnesium [mg/l]              | 4.67           | 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  |
| 14   | Sulphate [mg/l]               | 1.63           | IS 3025 (Part 24) : 1986    | 200.00                                  | 400.00   |

*Darwesh*

Note:

Continue to next page...



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Tonk Road, JAIPUR-302022 Raj.  
Ph : 94602 22039, 94602 22049  
E-mail : teamtesthouse@gmail.com

### RESULTS

| S.No | Parameters                       | Observed Value | Testing Protocol         | Desirable limits<br>as per IS 10500 : 2012         | Standard<br>Permissible<br>Limit in the<br>absence of<br>alternative<br>Source as per<br>IS 10500 :<br>2012 |
|------|----------------------------------|----------------|--------------------------|--|---|
| 15   | Nitrate [mg/l]                   | 2.94           | IS 3025 (Part 34) : 1988 | 45.00  | -   |
| 16   | Fluoride [mg/l]                  | 0.16           | 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]            | 44             | 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]                     | 0.55           | IS 13428 (Annexure H)    | 1.00   | 5.00  |
| 24   | Total coliform [MPN/100ml]       | 3.59           | IS 5401 (Part 2) : 2002  | Shall not be<br>detectable in any<br>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<br>[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*

(Kavita Mathur)  
Authorized Signatory  
(Report No: W/NABL/305 )



# TEAM TEST HOUSE

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

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

## TEST REPORT

|                             |  |
|-----------------------------|--|
| Report No.:                 | SS/101   |
| Job Identification :        | 3312   |
| Date :                      | 29/10/2014   |
| Issued to :                 | M/s. Jindal Saw Limited  |
|                             | Dhedwas Iron Ore Copper & Associated Minerals                              |
|                             | Mines Araji No, 9697/6711, Near Tiranga Hills,                             |
|                             | Village Pur, Tehsil & District – Bhilwara, Rajasthan.                      |
| Type of Unit :              | Mines  |
| Type of Sample :            | Soil Sample  |
| Date of Sample Collection : | 29/09/2014   |
| Date of Sample Receipt :    | 13/10/2014   |
| Date of Test :              | 13/10/2014 to 29/10/2014   |
| Sample Collected By :       | Mr. Rakesh Sharma  |
| Point of Collection :       | Samodi Village Land of Narayan Ji S/o Khem Ji Aher in front of Ashok Sadan |

## RESULTS

| S. No | Parameter                                  | Observed Value | Testing Protocol                  |
|-------|--|----------------|-----------------------------------|
| 1.    | Chloride as Cl [%]                         | BDL ( <0.1 )   | USEPA,<br>SW-846<br>Method 3050-B |
| 2.    | Electrical Conductivity (EC) [micromho/cm] | 196.60         |                                   |
| 3.    | pH   | 8.06           |                                   |
| 4.    | Potassium as K <sub>2</sub> O [%]          | 0.69           |                                   |
| 5.    | Sulphate [%]                               | BDL ( <0.1 )   |                                   |
| 6.    | Total Organic Carbon (TOC) [%]             | 0.87           |                                   |
| 7.    | Nickel as Ni [mg/kg]                       | 43.14          |                                   |
| 8.    | Copper as Cu [mg/kg]                       | 50.98          |                                   |
| 9.    | Zinc as Zn [mg/kg]                         | 160.17         |                                   |
| 10.   | Texture                                    | Sandy Loam     |                                   |
| 11.   | Cadmium as Cd [mg/kg]                      | BDL ( <1.0 )   |                                   |
| 12.   | Lead as Pb [mg/kg]                         | 114.69         |                                   |
| 13.   | Nitrogen as N [mg/kg]                      | 33.6           |                                   |
| 14.   | Phosphorous as P [mg/kg]                   | 28.5           |                                   |
| 15.   | Chromium as Cr [mg/kg]                     | 47.27          |                                   |
| 16.   | Total Carbonate as CaCO <sub>3</sub> [%]   | 4.43           |                                   |

BDL:- Below Detection Limit

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*Rajesh*

**Rajesh Maheshwari**  
Technical Manager

*K. N. Mukhopadhyay*

**K. N. Mukhopadhyay**  
Authorized Signatory  
(Report No: SS/101)



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## TEST REPORT

Report No :  
Job Identification :  
Date :  
Issued to :

SS/102  
3313  
29/10/2014  
M/s. Jindal Saw Limited  
Dhedwas Iron Ore Copper & Associated Minerals  
Mines Araji No, 9697/6711, Near Tiranga Hills,  
Village Pur, Tehsil & District – Bhilwara, Rajasthan.

Type of Unit :  
Type of Sample :  
Date of Sample Collection :  
Date of Sample Receipt :  
Date of Test :  
Sample Collected By :  
Point of Collection :

Mines  
Soil Sample  
29/09/2014  
13/10/2014  
13/10/2014 to 29/10/2014  
Mr. Rakesh Sharma  
Dariba Village Land of Narayan Ji back side of gram panchyat


## RESULTS

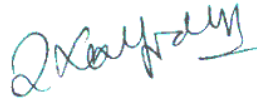
| S. No | Parameter                                  | Observed Value | Testing Protocol                  |
|-------|--|----------------|-----------------------------------|
| 1.    | Chloride as Cl [%]                         | BDL (<0.1)     | USEPA,<br>SW-846<br>Method 3050-B |
| 2.    | Electrical Conductivity (EC) [micromho/cm] | 219.50         |                                   |
| 3.    | pH   | 8.01           |                                   |
| 4.    | Potassium as K <sub>2</sub> O [%]          | 1.02           |                                   |
| 5.    | Sulphate [%]                               | BDL (<0.1)     |                                   |
| 6.    | Total Organic Carbon (TOC) [%]             | 0.93           |                                   |
| 7.    | Nickel as Ni [mg/kg]                       | 64.52          |                                   |
| 8.    | Copper as Cu [mg/kg]                       | 703.57         |                                   |
| 9.    | Zinc as Zn [mg/kg]                         | 256.0          |                                   |
| 10.   | Texture                                    | Sandy Loam     |                                   |
| 11.   | Cadmium as Cd [mg/kg]                      | 1.30           |                                   |
| 12.   | Lead as Pb [mg/kg]                         | 564.36         |                                   |
| 13.   | Nitrogen as N [mg/kg]                      | 14.8           |                                   |
| 14.   | Phosphorous as P [mg/kg]                   | 17.6           |                                   |
| 15.   | Chromium as Cr [mg/kg]                     | 64.97          |                                   |
| 16.   | Total Carbonate as CaCO <sub>3</sub> [%]   | 7.02           |                                   |

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Rajesh Maheshwari  
Technical Manager

  
K. N. Mukhopadhyay  
Authorized Signatory  
(Report No: SS/102)



# TEAM TEST HOUSE

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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No :  
Job Identification :  
Date :  
Issued to :

SS/103  
3314  
29/10/2014  
M/s. Jindal Saw Limited  
Dhedwas Iron Ore Copper & Associated Minerals  
Mines Araji No, 9697/6711, Near Tiranga Hills,  
Village Pur, Tehsil & District – Bhilwara, Rajasthan.  
Mines  
Soil Sample  
29/09/2014  
13/10/2014  
13/10/2014 to 29/10/2014  
Mr. Rakesh Sharma  
Dhulkhera Village Land of Badri Ji Nath

Type of Unit :  
Type of Sample :  
Date of Sample Collection :  
Date of Sample Receipt :  
Date of Test :  
Sample Collected By :  
Point of Collection :


## RESULTS

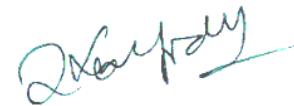
| S. No | Parameter                                  | Observed Value | Testing Protocol                  |
|-------|--|----------------|-----------------------------------|
| 1.    | Chloride as Cl [%]                         | BDL ( <0.1 )   | USEPA,<br>SW-846<br>Method 3050-B |
| 2.    | Electrical Conductivity (EC) [micromho/cm] | 253.10         |                                   |
| 3.    | pH   | 7.99           |                                   |
| 4.    | Potassium as K <sub>2</sub> O [%]          | 0.65           |                                   |
| 5.    | Sulphate [%]                               | BDL ( <0.1 )   |                                   |
| 6.    | Total Organic Carbon (TOC) [%]             | 0.64           |                                   |
| 7.    | Nickel as Ni [mg/kg]                       | 38.90          |                                   |
| 8.    | Copper as Cu [mg/kg]                       | 278.64         |                                   |
| 9.    | Zinc as Zn [mg/kg]                         | 135.27         |                                   |
| 10.   | Texture                                    | Sandy Loam     |                                   |
| 11.   | Cadmium as Cd [mg/kg]                      | BDL ( <1.0 )   |                                   |
| 12.   | Lead as Pb [mg/kg]                         | 45.89          |                                   |
| 13.   | Nitrogen as N [mg/kg]                      | 28.0           |                                   |
| 14.   | Phosphorous as P [mg/kg]                   | 22.9           |                                   |
| 15.   | Chromium as Cr [mg/kg]                     | 31.28          |                                   |
| 16.   | Total Carbonate as CaCO <sub>3</sub> [%]   | 7.50           |                                   |

BDL:- Below Detection Limit

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Rajesh Maheshwari  
Technical Manager

  
K. N. Mukhopadhyay  
Authorized Signatory  
(Report No: SS/103)



# 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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Tonk Road, JAIPUR-302022 Raj.  
Ph. 94602-22039, 94602-22049  
E-mail : teamtesthouse@gmail.com  
E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No : SS/104  
Job Identification : 3315  
Date : 29/10/2014  
Issued to : M/s. Jindal Saw Limited  
Dhedwas Iron Ore Copper & Associated Minerals  
Mines Araji No, 9697/6711, Near Tiranga Hills,  
Village Pur, Tehsil & District – Bhilwara, Rajasthan.  
Mines  
Type of Unit : Mines  
Type of Sample : Soil Sample  
Date of Sample Collection : 29/09/2014  
Date of Sample Receipt : 13/10/2014  
Date of Test : 13/10/2014 to 29/10/2014  
Sample Collected By : Mr. Rakesh Sharma  
Point of Collection : Pur Village Land of Kalu Ram Ji in front of balaji temple


## RESULTS


| S. No | Parameter                                  | Observed Value | Testing Protocol                  |
|-------|--|----------------|-----------------------------------|
| 1.    | Chloride as Cl [%]                         | BDL ( <0.1 )   | USEPA,<br>SW-846<br>Method 3050-B |
| 2.    | Electrical Conductivity (EC) [micromho/cm] | 203.20         |                                   |
| 3.    | pH   | 8.50           |                                   |
| 4.    | Potassium as K <sub>2</sub> O [%]          | 0.83           |                                   |
| 5.    | Sulphate [%]                               | BDL ( <0.1 )   |                                   |
| 6.    | Total Organic Carbon (TOC) [%]             | 0.58           |                                   |
| 7.    | Nickel as Ni [mg/kg]                       | 33.84          |                                   |
| 8.    | Copper as Cu [mg/kg]                       | 55.15          |                                   |
| 9.    | Zinc as Zn [mg/kg]                         | 95.87          |                                   |
| 10.   | Texture                                    | Sandy Loam     |                                   |
| 11.   | Cadmium as Cd [mg/kg]                      | BDL ( <1.0 )   |                                   |
| 12.   | Lead as Pb [mg/kg]                         | 24.7           |                                   |
| 13.   | Nitrogen as N [mg/kg]                      | 22.4           |                                   |
| 14.   | Phosphorous as P [mg/kg]                   | 31.2           |                                   |
| 15.   | Chromium as Cr [mg/kg]                     | 30.83          |                                   |
| 16.   | Total Carbonate as CaCO <sub>3</sub> [%]   | 8.31           |                                   |

BDL:- Below Detection Limit

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

  
Rajesh Maheshwari  
Technical Manager

  
K. N. Mukhopadhyay  
Authorized Signatory  
(Report No: SS/104)



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## TEST REPORT

Report No.:

SS/105

Job Identification :

3316

Date :

29/10/2014

Issued to :

M/s. Jindal Saw Limited

Type of Unit :

Dhedwas Iron Ore Copper & Associated Minerals  
Mines Araji No, 9697/6711, Near Tiranga Hills,  
Village Pur, Tehsil & District – Bhilwara, Rajasthan.  
Mines

Type of Sample :

Soil Sample

Date of Sample Collection :

29/09/2014

Date of Sample Receipt :

13/10/2014

Date of Test :

13/10/2014 to 29/10/2014

Sample Collected By :

Mr. Rakesh Sharma

Point of Collection :

Kanoli Village Land of Shambu singh Ji S/o Kishor singh ji

## RESULTS

| S. No | Parameter                                  | Observed Value | Testing Protocol                  |
|-------|--|----------------|-----------------------------------|
| 1.    | Chloride as Cl [%]                         | BDL ( <0.1 )   | USEPA,<br>SW-846<br>Method 3050-B |
| 2.    | Electrical Conductivity (EC) [micromho/cm] | 340.00         |                                   |
| 3.    | pH   | 8.50           |                                   |
| 4.    | Potassium as K <sub>2</sub> O [%]          | 0.39           |                                   |
| 5.    | Sulphate [%]                               | BDL ( <0.1 )   |                                   |
| 6.    | Total Organic Carbon (TOC) [%]             | 0.74           |                                   |
| 7.    | Nickel as Ni [mg/kg]                       | 36.95          |                                   |
| 8.    | Copper as Cu [mg/kg]                       | 41.54          |                                   |
| 9.    | Zinc as Zn [mg/kg]                         | 50.49          |                                   |
| 10.   | Texture                                    | Sandy Loam     |                                   |
| 11.   | Cadmium as Cd [mg/kg]                      | BDL ( <1.0 )   |                                   |
| 12.   | Lead as Pb [mg/kg]                         | 33.14          |                                   |
| 13.   | Nitrogen as N [mg/kg]                      | 12.1           |                                   |
| 14.   | Phosphorous as P [mg/kg]                   | 26.5           |                                   |
| 15.   | Chromium as Cr [mg/kg]                     | 30.09          |                                   |
| 16.   | Total Carbonate as CaCO <sub>3</sub> [%]   | 4.70           |                                   |

BDL:- Below Detection Limit

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

Rajesh

Rajesh Maheshwari  
Technical Manager

*K. N. Mukhopadhyay*

K. N. Mukhopadhyay  
Authorized Signatory  
(Report No: SS/105)



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## TEST REPORT

|                             |   |
|-----------------------------|---|
| Report No :                 | SS/106  |
| Job Identification :        | 3317  |
| Date :                      | 29/10/2014  |
| Issued to :                 | M/s. Jindal Saw Limited<br>Dhedwas Iron Ore Copper & Associated Minerals<br>Mines Araji No, 9697/6711, Near Tiranga Hills,<br>Village Pur, Tehsil & District – Bhilwara, Rajasthan. |
| Type of Unit :              | Mines   |
| Type of Sample :            | Soil Sample   |
| Date of Sample Collection : | 29/09/2014  |
| Date of Sample Receipt :    | 13/10/2014  |
| Date of Test :              | 13/10/2014 to 29/10/2014  |
| Sample Collected By :       | Mr. Rakesh Sharma   |
| Point of Collection :       | Suras Village Dumpyard land of Ratan lal S/o Lalu ji  |

## RESULTS

| S. No | Parameter                                  | Observed Value | Testing Protocol                  |
|-------|--|----------------|-----------------------------------|
| 1.    | Chloride as Cl [%]                         | BDL ( <0.1 )   | USEPA,<br>SW-846<br>Method 3050-B |
| 2.    | Electrical Conductivity (EC) [micromho/cm] | 126.00         |                                   |
| 3.    | pH   | 7.20           |                                   |
| 4.    | Potassium as K <sub>2</sub> O [%]          | 0.71           |                                   |
| 5.    | Sulphate [%]                               | BDL ( <0.1 )   |                                   |
| 6.    | Total Organic Carbon (TOC) [%]             | 0.117          |                                   |
| 7.    | Nickel as Ni [mg/kg]                       | 45.68          |                                   |
| 8.    | Copper as Cu [mg/kg]                       | 40.81          |                                   |
| 9.    | Zinc as Zn [mg/kg]                         | 234.35         |                                   |
| 10.   | Texture                                    | Sandy Loam     |                                   |
| 11.   | Cadmium as Cd [mg/kg]                      | BDL ( <1.0 )   |                                   |
| 12.   | Lead as Pb [mg/kg]                         | 111.16         |                                   |
| 13.   | Nitrogen as N [mg/kg]                      | 2.61           |                                   |
| 14.   | Phosphorous as P [mg/kg]                   | 19.4           |                                   |
| 15.   | Chromium as Cr [mg/kg]                     | 37.29          |                                   |
| 16.   | Total Carbonate as CaCO <sub>3</sub> [%]   | 5.63           |                                   |

**BDL:- Below Detection Limit**

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*Rajesh*  
**Rajesh Maheshwari**  
Technical Manager

*K. N. Mukhopadhyay*  
**K. N. Mukhopadhyay**  
Authorized Signatory  
(Report No: SS/106)



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## TEST REPORT

Report No.:

SS/107

Job Identification :

3318

Date :

29/10/2014

Issued to :

M/s. Jindal Saw Limited

Type of Unit :

Dhedwas Iron Ore Copper & Associated Minerals  
Mines Araji No, 9697/6711, Near Tiranga Hills,  
Village Pur, Tehsil & District – Bhilwara, Rajasthan.

Type of Sample :

Mines

Date of Sample Collection :

Soil Sample

Date of Sample Receipt :

29/09/2014

Date of Test :

13/10/2014

Sample Collected By :

13/10/2014 to 29/10/2014

Point of Collection :

Mr. Rakesh Sharma

Plant Side

## RESULTS

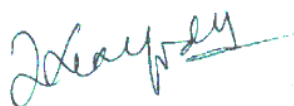
| S. No | Parameter                                  | Observed Value | Testing Protocol                  |
|-------|--|----------------|-----------------------------------|
| 1.    | Chloride as Cl [%]                         | BDL ( <0.1 )   | USEPA,<br>SW-846<br>Method 3050-B |
| 2.    | Electrical Conductivity (EC) [micromho/cm] | 156.50         |                                   |
| 3.    | pH   | 8.34           |                                   |
| 4.    | Potassium as K <sub>2</sub> O [%]          | 0.39           |                                   |
| 5.    | Sulphate [%]                               | BDL ( <0.1 )   |                                   |
| 6.    | Total Organic Carbon (TOC) [mg/l]          | BDL ( <0.1 )   |                                   |
| 7.    | Nickel as Ni [mg/kg]                       | 49.22          |                                   |
| 8.    | Copper as Cu [mg/kg]                       | 126.32         |                                   |
| 9.    | Zinc as Zn [mg/kg]                         | 218.0          |                                   |
| 10.   | Texture                                    | Sandy Loam     |                                   |
| 11.   | Cadmium as Cd [mg/kg]                      | BDL ( <1.0 )   |                                   |
| 12.   | Lead as Pb [mg/kg]                         | 171.42         |                                   |
| 13.   | Nitrogen as N [mg/kg]                      | 15.1           |                                   |
| 14.   | Phosphorous as P [mg/kg]                   | 20.8           |                                   |
| 15.   | Chromium as Cr [mg/kg]                     | 46.52          |                                   |
| 16.   | Total Carbonate as CaCO <sub>3</sub> [%]   | 6.57           |                                   |

BDL:- Below Detection Limit

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Rajesh Maheshwari  
Technical Manager

  
K. N. Mukhopadhyay  
Authorized Signatory  
(Report No: SS/107)



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## TEST REPORT

Report No.:

SS/108

Job Identification :

3319

Date :

29/10/2014

Issued to :

M/s. Jindal Saw Limited

Dhedwas Iron Ore Copper & Associated Minerals

Mines Araji No, 9697/6711, Near Tiranga Hills,

Village Pur, Tehsil & District – Bhilwara, Rajasthan.

Mines

Soil Sample

Type of Unit :

29/09/2014

Type of Sample :

Date of Sample Collection :

Date of Sample Receipt :

13/10/2014

Date of Test :

13/10/2014 to 29/10/2014

Sample Collected By :

Mr. Rakesh Sharma

Point of Collection :

Gandhi Sagar


## RESULTS

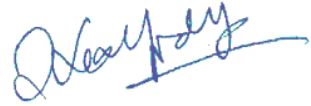
| S. No | Parameter                                  | Observed Value | Testing Protocol                  |
|-------|--|----------------|-----------------------------------|
| 1.    | Chloride as Cl [%]                         | BDL (<0.1)     | USEPA,<br>SW-846<br>Method 3050-B |
| 2.    | Electrical Conductivity (EC) [micromho/cm] | 275.30         |                                   |
| 3.    | pH   | 8.80           |                                   |
| 4.    | Potassium as K <sub>2</sub> O [%]          | 0.44           |                                   |
| 5.    | Sulphate [%]                               | BDL (<0.1)     |                                   |
| 6.    | Total Organic Carbon (TOC) [%]             | 0.64           |                                   |
| 7.    | Nickel as Ni [mg/kg]                       | 28.92          |                                   |
| 8.    | Copper as Cu [mg/kg]                       | 52.14          |                                   |
| 9.    | Zinc as Zn [mg/kg]                         | 62.36          |                                   |
| 10.   | Texture                                    | Sandy Loam     |                                   |
| 11.   | Cadmium as Cd [mg/kg]                      | BDL (<1.0)     |                                   |
| 12.   | Lead as Pb [mg/kg]                         | 20.29          |                                   |
| 13.   | Nitrogen as N [mg/kg]                      | 32.0           |                                   |
| 14.   | Phosphorous as P [mg/kg]                   | 23.7           |                                   |
| 15.   | Chromium as Cr [mg/kg]                     | 24.49          |                                   |
| 16.   | Total Carbonate as CaCO <sub>3</sub> [%]   | 5.47           |                                   |

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Rajesh Maheshwari  
Technical Manager

  
K. N. Mukhopadhyay  
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(Report No: SS/108)