



## 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 9001:2015

OHSAS 18001:2007

JDA/UDH

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

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

### TEST REPORT

|                         |  |  |                              |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. :    | TC502519400002883F   | Date :                                 | 22-10-2019                   |
| Issued To :             | M/S Jindal Saw Limited (Pellet Plant)<br>Iron Ore Pellet Unit, Khasra No. 6711,<br>9697/6711 Village Pur P.O. Pur Tehsil Bhilwara,<br>District : Bhilwara- 311802 (Rajasthan), | Type of Unit :                         | Pellet unit                  |
| Type of Sample :        | Ambient Air Quality Monitoring   | Date of Sample Collection/Monitoring : | 12-10-2019                   |
| Point of Collection :   | Staff Canteen Area [25°18'60" N 74°32'30"  | Date of Receipt :                      | 16-10-2019                   |
| Date of Test/Analysis : | 16-10-2019 to 22-10-2019   | Sampling Plan :                        | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample :    | -  | Sample Collected By :                  | Parsa Ram Kudi               |
| Unit's representative : | Shitanshu Pandey   | Condition of Sample :                  | Fit for testing              |

### 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> ]                         | 310            | IS 5182 (Part 10) : 1999                   | 4000  |
| 2    | Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]     | 16.91          | IS 5182 (Part 6) : 2006<br>Reaffirmed 2012 | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]      | 251.73         | IS 5182 (Part 4) : 1999<br>Reaffirmed 2014 | -   |
| 4    | Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ] | 35.26          | CPCB Guidelines                            | 60.00   |
| 5    | Sulphur Dioxide [microgram/m <sup>3</sup> ]                         | 8.77           | IS 5182 (Part 2) : 2001<br>Reaffirmed 2012 | 80.00   |
| 6    | Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]  | 75.31          | IS 5182 (Part 23)-2006<br>Reaffirmed 2012  | 100.00  |

Notes :-

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Puran Mal Yogi  
Senior Analyst

  
K.N. Mukhopadhyay

Authorized Signatory  
(Report No: TC502519400002883F)



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## TEST REPORT

|                         |  |  |                              |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. :    | TC502519400002881F   | Date :                                 | 22-10-2019                   |
| Issued To :             | M/S Jindal Saw Limited (Pellet Plant)<br>Iron Ore Pellet Unit, Khasra No. 6711,<br>9697/6711 Village Pur P.O. Pur Tehsil Bhilwara,<br>District : Bhilwara- 311802 (Rajasthan), | Type of Unit :                         | Pellet unit                  |
| Type of Sample :        | Ambient Air Quality Monitoring   | Date of Sample Collection/Monitoring : | 12-10-2019                   |
| Point of Collection :   | Tiranga House [25°18'975 N 074°32'306 E]   | Date of Receipt :                      | 16-10-2019                   |
| Date of Test/Analysis : | 16-10-2019 to 22-10-2019   | Sampling Plan :                        | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample :    | -  | Sample Collected By :                  | Parsa Ram Kudi               |
| Unit's representative : | Shitanshu Pandey   | Condition of Sample :                  | Fit for testing              |

## RESULTS

| S.No | Parameters  | Observed Value | Testing Protocol                           | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|---|
| 1    | Carbon Monoxide [microgram/m3]                    | 340            | IS 5182 (Part 10) : 1999                   | 4000  |
| 2    | Nitrogen Dioxide as NO2 [microgram/m3]            | 12.87          | IS 5182 (Part 6) : 2006<br>Reaffirmed 2012 | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m3] | 285.77         | IS 5182 (Part 4) : 1999<br>Reaffirmed 2014 | -   |
| 4    | Particulate Matter (PM2.5) [microgram/m3]         | 30.56          | CPCB Guidelines                            | 60.00   |
| 5    | Sulphur Dioxide [microgram/m3]                    | 4.94           | IS 5182 (Part 2) : 2001<br>Reaffirmed 2012 | 80.00   |
| 6    | Particulate Matter (PM 10) [microgram/m3]         | 77.48          | IS 5182 (Part 23)-2006<br>Reaffirmed 2012  | 100.00  |

Notes :-

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Puran Mal Yogi  
Senior Analyst

  
K.N. Mukhonhadvay  
Authorized Signatory

(Report No: TC502519400002881F)



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## TEST REPORT

|                         |  |  |                              |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. :    | TC502519400002882F   | Date :                                 | 22-10-2019                   |
| Issued To :             | M/S Jindal Saw Limited (Pellet Plant)<br>Iron Ore Pellet Unit, Khasra No. 6711,<br>9697/6711 Village Pur P.O. Pur Tehsil Bhilwara,<br>District : Bhilwara- 311802 (Rajasthan), | Type of Unit :                         | Pellet unit                  |
| Type of Sample :        | Ambient Air Quality Monitoring   | Date of Sample Collection/Monitoring : | 12-10-2019                   |
| Point of Collection :   | Switch Yard Station [25°19'27" N 74°32'36" E]  | Date of Receipt :                      | 16-10-2019                   |
| Date of Test/Analysis : | 16-10-2019 to 22-10-2019   | Sampling Plan :                        | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample :    | -  | Sample Collected By :                  | Parsa Ram Kudi               |
| Unit's representative : | Shitanshu Pandey   | Condition of Sample :                  | Fit for testing              |

## 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> ]                         | 330            | IS 5182 (Part 10) : 1999                   | 4000  |
| 2    | Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]     | 12.3           | IS 5182 (Part 6) : 2006<br>Reaffirmed 2012 | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]      | 169.21         | IS 5182 (Part 4) : 1999<br>Reaffirmed 2014 | -   |
| 4    | Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ] | 23.59          | CPCB Guidelines                            | 60.00   |
| 5    | Sulphur Dioxide [microgram/m <sup>3</sup> ]                         | 5.59           | IS 5182 (Part 2) : 2001<br>Reaffirmed 2012 | 80.00   |
| 6    | Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]              | 72.28          | IS 5182 (Part 23)-2006<br>Reaffirmed 2012  | 100.00  |

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Puran Mal Yogi  
Senior Analyst

K.N. MURKHANDVAY  
Authorized Signatory  
(Report No: TC502519400002882F )



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## TEST REPORT

|                         |  |  |                              |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. :    | TC502519400002884F   | Date :                                 | 22-10-2019                   |
| Issued To :             | M/S Jindal Saw Limited (Pellet Plant)<br>Iron Ore Pellet Unit, Khasra No. 6711,<br>9697/6711 Village Pur P.O. Pur Tehsil Bhilwara,<br>District : Bhilwara- 311802 (Rajasthan), | Type of Unit :                         | Pellet unit                  |
| Type of Sample :        | Ambient Air Quality Monitoring   | Date of Sample Collection/Monitoring : | 13-10-2019                   |
| Point of Collection :   | BFN Plant B [74°32'21"N,25°19'10"E]  | Date of Receipt :                      | 16-10-2019                   |
| Date of Test/Analysis : | 16-10-2019 to 22-10-2019   | Sampling Plan :                        | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample :    | -  | Sample Collected By :                  | Parsa Ram Kudi               |
| Unit's representative : | Shitanshu Pandey   | Condition of Sample :                  | Fit for testing              |

## RESULTS

| S.No | Parameters  | Observed Value | Testing Protocol                           | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|---|
| 1    | Carbon Monoxide [microgram/m3]                    | 290            | IS 5182 (Part 10) : 1999                   | 4000  |
| 2    | Nitrogen Dioxide as NO2 [microgram/m3]            | 13.21          | IS 5182 (Part 6) : 2006<br>Reaffirmed 2012 | 80.00   |
| 3    | Suspended Particulate Matter (SPM) [microgram/m3] | 229.97         | IS 5182 (Part 4) : 1999<br>Reaffirmed 2014 | -   |
| 4    | Particulate Matter (PM2.5) [microgram/m3]         | 32.46          | CPCB Guidelines                            | 60.00   |
| 5    | Sulphur Dioxide [microgram/m3]                    | 5.25           | IS 5182 (Part 2) : 2001<br>Reaffirmed 2012 | 80.00   |
| 6    | Particulate Matter (PM 10) [microgram/m3]         | 80.22          | IS 5182 (Part 23)-2006<br>Reaffirmed 2012  | 100.00  |

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*Purah Mal Yogi*  
Senior Analyst

*K.N. Mukhohadyay*  
K.N. Mukhohadyay

Authorized Signatory  
(Report No: TC502519400002884F )



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## TEST REPORT

|                         |  |  |                              |
|-------------------------|--|--|------------------------------|
| Report No./ULR No.:     | TC502519500001393F   | Date :                                 | 22-10-2019                   |
| Issued To :             | M/S Jindal Saw Limited (Pellet Plant)<br>Iron Ore Pellet Unit, Khasra No. 6711,<br>9697/6711 Village Pur P.O. Pur Tehsil Bhilwara,<br>District : Bhilwara- 311802 (Rajasthan), | Type of Unit :                         | Pellet unit                  |
| Type of Sample :        | Stack Emission Level   | Date of Sample Collection/Monitoring : | 12-10-2019                   |
| Point of Collection :   | Rotary Kiln  | Date of Receipt :                      | 16-10-2019                   |
| Date of Test/Analysis : | 16-10-2019 to 22-10-2019   | Sampling Plan :                        | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample :    | -  | Sample Collected By :                  | Parsa Ram Kudi               |
| Unit's representative : | Shitanshu Pandey   | Condition of Sample :                  | Fit for testing              |

## RESULTS

| S.No | Parameters                               | Observed Value | Testing Protocol                       |
|------|--|----------------|--|
| 1    | Particulate matter [mg/Nm <sup>3</sup> ] | 28.44          | IS 11255 (Part 1):1985 Reaffirmed 2014 |

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**Puran Mal Yogi**  
Senior Analyst

  
**Raresh Maheshwan**  
Authorized Signatory

(Report No: TC502519500001393F)



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| Report No./ULR No. :    | TC502519500001394F   | Date :                                 | 22-10-2019                   |
| Issued To :             | M/S Jindal Saw Limited (Pellet Plant)<br>Iron Ore Pellet Unit, Khasra No. 6711,<br>9697/6711 Village Pur P.O. Pur Tehsil Bhilwara,<br>District : Bhilwara- 311802 (Rajasthan), | Type of Unit :                         | Pellet unit                  |
| Type of Sample :        | Stack Emission Level   | Date of Sample Collection/Monitoring : | 11-10-2019                   |
| Point of Collection :   | Coal Mill Stack [74°32'28"N 25°19'8"E]   | Date of Receipt :                      | 16-10-2019                   |
| Date of Test/Analysis : | 16-10-2019 to 22-10-2019   | Sampling Plan :                        | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample :    | -  | Sample Collected By :                  | Parsa Ram Kudi               |
| Unit's representative : | Shitanshu Pandey   | Condition of Sample :                  | Fit for testing              |

## RESULTS

| S.No | Parameters                               | Observed Value | Testing Protocol                          |
|------|--|----------------|---|
| 1    | Particulate matter [mg/Nm <sup>3</sup> ] | 21.92          | IS 11255 (Part 1):1985<br>Reaffirmed 2014 |

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**Purany Mahyogi**

Senior Analyst

**K.N. Mukhondharyay**  
Authorized Signatory

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