



## TEAM TEST HOUSE

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

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

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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. :	TC502519400003499P	Date :	23-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	10-12-2019
Point of Collection :	Pur Village (74°32'27"N,25°18'01"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 23-12-2019	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	Ammonia [microgram/m <sup>3</sup> ]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	230	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m <sup>3</sup> ]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.46	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	191.26	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-

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E-mail : director@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Standard
7	Particulate Matter (PM2.5) [microgram/m3]	16.67	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.29	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	69.44	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	3.4	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

### Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,12,13 covered under NABL scope and Parameter No. 10,11 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
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Purnan Mal Yogi  
Senior Analyst

Rajesh Ivaneshwan  
Authorized Signatory  
(Report No: TC502519400003499P )



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## TEST REPORT

Report No./ULR No. :	TC502519400003498P	Date :	23-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	10-12-2019
Point of Collection :	Dariba Village (74°31'40"N,25°20'34"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 23-12-2019	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	Ammonia [microgram/m <sup>3</sup> ]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	230	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m <sup>3</sup> ]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.83	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	234.17	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-

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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Units as per National Ambient Air Quality Standard, 2009
7	Particulate Matter (PM2.5) [microgram/m3]	32.96	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.94	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	78.38	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL (<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL (<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	5	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal Yogi

Senior Analyst

  
Rajesh Maheshwan

Authorized Signatory

(Report No: TC502519400003498P )



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### TEST REPORT

Report No./ULR No. :	TC502519400003500P	Date :	23-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	11-12-2019
Point of Collection :	Kanoli Village (74°35'58"N,25°16'15"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 23-12-2019	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	Ammonia [microgram/m <sup>3</sup> ]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	240	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m <sup>3</sup> ]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	11.55	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	158.66	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-

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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	24.85	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.58	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	64.52	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m <sup>3</sup> ]	6.2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

### Notes >

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**Puran Mal Yogi**  
Senior Analyst

  
**Rajesh Maheshwar**  
Authorized Signatory  
(Report No: TC502519400003500P)



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### TEST REPORT

Report No./ULR No. :	TC502519400003502P	Date :	23-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	11-12-2019
Point of Collection :	Gandhisagar Sagar Park (74°38'56"N,25°20'11"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 23-12-2019	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	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	270	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.06	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.91	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	173.48	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-

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Website : www.teamtesthouse.com


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limitation
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	20.53	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	5.39	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	77.17	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m <sup>3</sup> ]	3.6	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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**Puran Mal Yogi**  
Senior Analyst

  
**Rajesh Maheshwar**  
Authorized Signatory  
(Report No: TC502519400003502P )



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## TEST REPORT

Report No./ULR No.:	TC502519400003501P	Date :	23-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	12-12-2019
Point of Collection :	PMS Building BFN Plant (74°32'15"N,25°19'05"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 23-12-2019	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	Ammonia [microgram/m <sup>3</sup> ]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	250	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m <sup>3</sup> ]	0.08	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.31	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	208.65	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-

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

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
7	Particulate Matter (PM2.5) [microgram/m3]	43.48	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.03	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	80.55	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	3.2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran Mai Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC502519400003501P )



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### TEST REPORT

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Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	12-12-2019
Point of Collection :	Mines Workshop (74°31'55"N,25°18'52"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 23-12-2019	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	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	280	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.05	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.68	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	232.7	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-

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

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	32.31	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.03	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	76.6	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<0.5)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m <sup>3</sup> ]	2.8	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

#### Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,13,14 covered under NABL scope and Parameter No. 11,12 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

  
Puran Mal Yogi  
Senior Analyst

  
Rakesh Kumar  
Authorized Signatory  
(Report No: TC502519400003503P)



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## TEST REPORT

Report No./ULR No. :	TC502519400003494P	Date :	23-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	12-12-2019
Point of Collection :	Tiranga Pit [74°32'20" N 25°19'31"E]	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 23-12-2019	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	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	280	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.05	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.53	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	291.39	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-

Note:

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*Raj*



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

### RESULTS

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

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
7	Particulate Matter (PM2.5) [microgram/m3]	28.45	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	2.49	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	81.52	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	3	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

**Notes :-**

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

*Puran*  
**Puran Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwar**  
Authorized Signatory  
(Report No: TC502519400003494P )



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## TEST REPORT

Report No./ULR No. :	TC502519400003497P	Date :	23-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	10-12-2019
Point of Collection :	Samodi Village (74°32'57"N,25°20'53"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 23-12-2019	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	Ammonia [microgram/m <sup>3</sup> ]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	280	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m <sup>3</sup> ]	0.04	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	10.71	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	191.08	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-

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### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Standard
7	Particulate Matter (PM2.5) [microgram/m3]	26.77	CPCB Guidelines	National Ambient Air Quality Standard, 2009 60.00
8	Sulphur Dioxide [microgram/m3]	6.47	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	77.78	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	4.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

#### Notes :-

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*Purán Maheshwari*  
Senior Analyst

*Rajesh Maheshwari*  
Authorized Signatory  
(Report No: TC502519400003497P )



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## TEST REPORT

Report No./ULR No. :	TC502519400003495P	Date :	23-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	09-12-2019
Point of Collection :	Dhulkhera Pit (74°34'26"N, 25°23'32"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 23-12-2019	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	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	250	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.05	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.2	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977,Part 8:19	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	238.18	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-

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### RESULTS

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

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
7	Particulate Matter (PM2.5) [microgram/m3]	28.13	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.77	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	77.26	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	4.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

**Notes :-**

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*Putan Mar Yogi*  
Senior Analyst

*Rajesh Visheshwar*  
Authorized Signatory  
(Report No: TC502519400003495P )



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## TEST REPORT

Report No./ULR No. :	TC502519400003496P	Date :	23-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	10-12-2019
Point of Collection :	Suras Pit (74°34'11"N,25°23'24"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 23-12-2019	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	Ammonia [microgram/m3]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	340	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.05	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.82	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	243.2	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-

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

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
7	Particulate Matter (PM2.5) [microgram/m3]	30.64	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.4	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	76.73	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m3]	BDL (<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m3]	BDL (<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m3]	2.4	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

**Notes :-**

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*Puran Mal Yogi*

Senior Analyst

*Rajesh Manojwan*

Authorized Signatory

(Report No: TC502519400003496P )



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E-mail : director@teamtesthouse.com

### TEST REPORT

Report No./ULR No. :	TC502520400000013F	Date :	07-01-2020
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	31-12-2019
Point of Collection :	Near Tiranga Pit (74°32'07"N 29°19'03"E)	Date of Receipt :	02-01-2020
Date of Test/Analysis :	02-01-2020 to 07-01-2020	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Shailendra singh
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]	250	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.87	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	255.62	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	29.6	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.04	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	81.6	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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*Puran*  
**Puran Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwan**  
Authorized Signatory

(Report No: TC502520400000013F)



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## TEST REPORT

Report No./ULR No. :	TC50252040000016F	Date :	07-01-2020
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	31-12-2019
Point of Collection :	Samodi Village (74°32'42" N 25°20'02"E]	Date of Receipt :	02-01-2020
Date of Test/Analysis :	02-01-2020 to 07-01-2020	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
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> ]	240	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	11.92	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	132	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	31.66	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	8.9	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	77.59	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

### Notes :-

- # Parameter No. 1,2,3,4,5,6 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
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*Puran*  
**Puran Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwan**  
Authorized Signatory

(Report No: TC50252040000016F )



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E-mail : director@teamtesthouse.com

### TEST REPORT

Report No./ULR No. :	TC502520400000014F	Date :	07-01-2020
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	29-12-2019
Point of Collection :	Dhulkhera Pit [74°34'31"N 25°23'37"E]	Date of Receipt :	02-01-2020
Date of Test/Analysis :	02-01-2020 to 07-01-2020	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
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> ]	280	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	15.56	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	240.31	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	46.63	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	8.42	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	78.68	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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Puran Mali Yogi  
Senior Analyst

Rajesh Maheshwan  
Authorized Signatory

(Report No: TC502520400000014F )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC502520400000015F	Date :	07-01-2020
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	30-12-2019
Point of Collection :	Suras Pit (74°34'11"N,25°23'24"E)	Date of Receipt :	02-01-2020
Date of Test/Analysis :	02-01-2020 to 07-01-2020	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
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> ]	15.69	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	224.72	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	35.52	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.32	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	73.29	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

### Notes :-

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Furat Waj Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory

(Report No: TC502520400000015F )



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TC-5025

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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC502519100002197P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	11-12-2019
Point of Collection :	Pur Village (74°32'27"N,25°18'11"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.91	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	116	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	29.57	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00

Note:

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*Raj*



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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	180	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	30.4	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	9.72	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	22.33	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	11.53	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	BDL(<0.1)	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	108	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.40	IS 13428 (Annexure H)	0.5	1.0
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-

Note:

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Pai



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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
28	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
29	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
30	Calcium Hardness [mg/l]	76	IS 3025 (Part 40) : 1991 RA 2014	-	-
31	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-
32	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
33	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall Not be Detectable in any 100 ml sample	-
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall Not be Detectable in any 100 ml sample	-
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.01	-

**Notes :-**

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,32,33,34,35,36 covered under NABL scope and Parameter No. 27,31 does not cover under NABL scope
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*Puran*  
**Puran Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwan**  
Authorized Signatory  
(Report No: TC502519100002197P )



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## TEST REPORT

Report No./ULR No. :	TC502519100002201P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	11-12-2019
Point of Collection :	Dariba Village [74°31'59"N 25°20'48"E]	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.27	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	530	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	153.74	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00

Note:

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*Paj*



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### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	1313	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	156	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	34.02	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	0.01	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	0.02	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	183.33	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	31.66	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.36	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	0.19	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	356	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.41	IS 13428 (Annexure H)	0.5	1.0
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-

Note:

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### RESULTS

Sl. No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptance Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
28	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
29	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
30	Calcium Hardness [mg/l]	196	IS 3025 (Part 40) : 1991 RA 2014	-	-
31	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-
32	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
33	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall Not be Detectable in any 100 ml sample	-
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall Not be Detectable in any 100 ml sample	-
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.01	-

**Notes :-**

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,32,33,34,35,36 covered under NABL scope and Parameter No. 27,31 does not cover under NABL scope
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*Puran Mal Yogi*  
**Puran Mal Yogi**  
Senior Analyst

*Rajesh Maheshwan*  
**Rajesh Maheshwan**  
Authorized Signatory  
(Report No: TC502519100002201P)



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## TEST REPORT

Report No./ULR No. :	TC502519100002200P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	11-12-2019
Point of Collection :	Kanoli Village (74°36'11"N,25°16'12"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.80	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	136	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	15.77	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00

Note:

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

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	231	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	30.4	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	14.58	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	0.01	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	20.67	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	5.28	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.15	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	0.06	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	128	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	-
23	Boron [mg/l]	0.35	IS 13428 (Annexure H)	0.5	1.0
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-

Note:

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### RESULTS

Sl. No	Parameter	Observed Value	Testing Protocol	Requirement Limit) as per IS 10500 : 2012	Standard limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
28	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
29	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
30	Calcium Hardness [mg/l]	76	IS 3025 (Part 40) : 1991 RA 2014	-	-
31	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-
32	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
33	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall Not be Detectable in any 100 ml sample	-
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall Not be Detectable in any 100 ml sample	-
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.01	-

**Notes :-**

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,32,33,34,35,36 covered under NABL scope and Parameter No. 27,31 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

  
**Puran Mal Yogi**  
 Senior Analyst

  
**Rajesh Maheshwan**  
 Authorized Signatory  
 (Report No: TC502519100002200P )



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

## TEST REPORT

Report No./ULR No. :	TC502519100002199P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajai No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	11-12-2019
Point of Collection :	Gandhisagar village	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.22	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	500	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	232.58	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00

Note:

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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	1057	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	76	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	75.33	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	0.01	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	0.04	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	155	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	40.53	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.34	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	0.28	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	380	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.34	IS 13428 (Annexure H)	0.5	1.0
24	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
25	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-

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### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
29	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
30	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
31	Calcium Hardness [mg/l]	190	IS 3025 (Part 40) : 1991 RA 2014	-	-
32	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall Not be Detectable in any 100 ml sample	-
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall Not be Detectable in any 100 ml sample	-
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.01	-

**Notes :-**

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,31,33,34,35,36 covered under NABL scope and Parameter No. 27,32 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

*Puran Mal Yogi*  
**Puran Mal Yogi**  
Senior Analyst

*Rajesh Maheshwari*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC502519100002199P )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC502519100002198P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	11-12-2019
Point of Collection :	Samodi Village (74°32'58"N,25°20'56"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.03	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	400	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	169.51	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00

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### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	1041	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	115.2	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	27.22	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	0.03	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	0.07	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	154.17	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	34.79	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.13	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	0.53	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	330	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.34	IS 13428 (Annexure H)	0.5	1.0
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-

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### RESULTS

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[qualitydirector@teamtesthouse.com](mailto:qualitydirector@teamtesthouse.com)

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
29	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
30	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
31	Calcium Hardness [mg/l]	288	IS 3025 (Part 40) : 1991 RA 2014	-	-
32	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall Not be Detectable in any 100 ml sample	-
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall Not be Detectable in any 100 ml sample	-
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.01	-

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,31,33,34,35,36 covered under NABL scope and Parameter No. 27,32 does not cover under NABL scope
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

*Puran*  
**Puran Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwan**  
Authorized Signatory  
(Report No: TC502519100002198P )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC502519100002195P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	12-12-2019
Point of Collection :	Dhulkhera Village (74°35'31"N,25°23'59"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	6.86	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	510	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	204.99	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00

Note:

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*Rajin*



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



TC-5025

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JDA/UDH

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Ph.: 94602-22039, 94602-22049

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	1346	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	136	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	41.31	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	0.01	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	0.02	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	140	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	17.45	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.15	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	0.13	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	308	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.39	IS 13428 (Annexure H)	0.5	1.0
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-

Note:

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Ph.: 94602-22039, 94602-22049

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
28	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
29	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
30	Calcium Hardness [mg/l]	340	IS 3025 (Part 40) : 1991 RA 2014	-	-
31	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-
32	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
33	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall Not be Detectable in any 100 ml sample	-
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall Not be Detectable in any 100 ml sample	-
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.01	-

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,32,33,34,35,36 covered under NABL scope and Parameter No. 27,31 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

*Puran*  
**Puran Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwan**  
Authorized Signatory  
(Report No: TC502519100002195P )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC502519100002196P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	12-12-2019
Point of Collection :	Suras Village [74°33'40" N 25°23'16"E]	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.10	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	470	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	206.96	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00

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### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	1149	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	128	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	36.45	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	0.02	IS 3025 (Part 42) : 1992 RA 2014	0.05	1.50
13	Manganese [mg/l]	0.02	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	70.83	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	16.81	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.22	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	0.31	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	268	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.37	IS 13428 (Annexure H)	0.5	1.0
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-

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### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
28	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
29	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
30	Calcium Hardness [mg/l]	320	IS 3025 (Part 40) : 1991 RA 2014	-	-
31	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-
32	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
33	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall Not be Detectable in any 100 ml sample	-
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall Not be Detectable in any 100 ml sample	-
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.01	-

**Notes :-**

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,32,33,34,35,36 covered under NABL scope and Parameter No. 27,31 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

*Puran*  
**Puran Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwan**  
Authorized Signatory  
(Report No: TC502519100002196P )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC502519100002202P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	13-12-2019
Point of Collection :	Piezometer Well No. 1 [74°32'16" N 25°19'6"E]	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017
5	pH	7.49	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	490	IS 3025 (Part 21) : 1983 RA 2014
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014
8	Chloride [mg/l]	240.46	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	1563	IS 3025 (Part 16) : 1984 RA 2017

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

## RESULTS

S.No.	Parameter	Observed Value	Testing Protocol
10	Calcium [mg/l]	148	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	29.16	IS 3025 (Part 46) : 1994 RA 2014
12	Copper [mg/l]	0.02	IS 3025 (Part 42) : 1992 RA 2014
13	Manganese [mg/l]	0.03	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	248.33	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	35.32	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	0.87	IS 3025 (Part 60) : 2008 RA 2013
17	Cadmium [mg/l]	0.001	IS 3025 (Part 41) : 1992 RA 2014
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014
20	Zinc [mg/l]	0.42	IS 3025 (Part 49) : 1994 RA 2014
21	Alkalinity - T [mg/l]	210	IS 3025 (Part 23) : 1986 RA 2014
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014
23	Boron [mg/l]	0.31	IS 13428 (Annexure H)
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B

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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014
29	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
30	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
31	Calcium Hardness [mg/l]	370	IS 3025 (Part 40) : 1991 RA 2014
32	Pesticides [mg/l]	Not Detected	APHA : 2017
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

### Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,31,33,34,35,36 covered under NABL scope and Parameter No. 27,32 does not cover under NABL scope
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

  
**Puran Mal Yogi**  
Senior Analyst

  
**Rajesh Maheshwan**  
Authorized Signatory  
(Report No: TC502519100002202P)



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## TEST REPORT

Report No./ULR No. :	TC502519100002203P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	13-12-2019
Point of Collection :	Piezowell No. 2 (74°32'49"N,25°20'4"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017
5	pH	7.11	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	400	IS 3025 (Part 21) : 1983 RA 2014
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014
8	Chloride [mg/l]	197.1	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	989	IS 3025 (Part 16) : 1984 RA 2017

Note:

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## RESULTS

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S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	100	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	36.45	IS 3025 (Part 46) : 1994 RA 2014
12	Copper [mg/l]	0.02	IS 3025 (Part 42) : 1992 RA 2014
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	95.83	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	37.76	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	0.27	IS 3025 (Part 60) : 2008 RA 2013
17	Cadmium [mg/l]	0.001	IS 3025 (Part 41) : 1992 RA 2014
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014
20	Zinc [mg/l]	0.15	IS 3025 (Part 49) : 1994 RA 2014
21	Alkalinity - T [mg/l]	344	IS 3025 (Part 23) : 1986 RA 2014
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014
23	Boron [mg/l]	0.37	IS 13428 (Annexure H)
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B

Note:

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TC-5025

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Website : www.teamtesthouse.com

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

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014
29	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
30	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
31	Calcium Hardness [mg/l]	100	IS 3025 (Part 40) : 1991 RA 2014
32	Pesticides [mg/l]	Not Detected	APHA : 2017
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

**Notes :-**

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,31,33,34,35,36 covered under NABL scope and Parameter No. 27,32 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

*Puraj*  
**Puraj Mal Yogi**

Senior Analyst

*Raj*  
**Rajesh Maheshwar**

Authorized Signatory

(Report No: TC502519100002203P )



# TEAM TEST HOUSE

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

## TEST REPORT

Report No./ULR No. :	TC502519100002204P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	13-12-2019
Point of Collection :	Piezowell No.3 (74°33'50"N,25°23'32"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017
5	pH	7.36	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	520	IS 3025 (Part 21) : 1983 RA 2014
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014
8	Chloride [mg/l]	132.06	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	836	IS 3025 (Part 16) : 1984 RA 2017

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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	120	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	53.46	IS 3025 (Part 46) : 1994 RA 2014
12	Copper [mg/l]	0.03	IS 3025 (Part 42) : 1992 RA 2014
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	96.67	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	37.23	IS 3025 (Part 34) : 1986 RA 2014
16	Fluoride [mg/l]	0.67	IS 3025 (Part 60) : 2008 RA 2013
17	Cadmium [mg/l]	0.001	IS 3025 (Part 41) : 1992 RA 2014
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014
20	Zinc [mg/l]	0.67	IS 3025 (Part 49) : 1994 RA 2014
21	Alkalinity - T [mg/l]	380	IS 3025 (Part 23) : 1986 RA 2014
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014
23	Boron [mg/l]	0.40	IS 13428 (Annexure H)
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B

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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
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014
29	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
30	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
31	Calcium Hardness [mg/l]	300	IS 3025 (Part 40) : 1991 RA 2014
32	Pesticides [mg/l]	Not Detected	APHA : 2017
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

### Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,31,33,34,35,36 covered under NABL scope and Parameter No. 27,32 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC502519100002204P )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC502519100002205P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	12-12-2019
Point of Collection :	Piezowell No.4 (74°34'18"N,25°23'18"E)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017
5	pH	7.75	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	550	IS 3025 (Part 21) : 1983 RA 2014
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014
8	Chloride [mg/l]	266.09	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	1485	IS 3025 (Part 16) : 1984 RA 2017

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

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	96	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	75.33	IS 3025 (Part 46) : 1994 RA 2014
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2014
13	Manganese [mg/l]	0.05	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	266.67	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	3.41	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	BDL(<0.1)	IS 3025 (Part 60) : 2008 RA 2013
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2014
21	Alkalinity - T [mg/l]	310	IS 3025 (Part 23) : 1986 RA 2014
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014
23	Boron [mg/l]	0.38	IS 13428 (Annexure H)
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B

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Testing Protocol : [teamtesthouse@gmail.com](mailto:teamtesthouse@gmail.com)

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

## RESULTS

S.No	Parameter	Observed Value	Testing Protocol
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014
29	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
30	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
31	Calcium Hardness [mg/l]	240	IS 3025 (Part 40) : 1991 RA 2014
32	Pesticides [mg/l]	Not Detected	APHA : 2017
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

**Notes :-**

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,31,33,34,35,36 covered under NABL scope and Parameter No. 27,32 does not cover under NABL scope
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

*Puran*  
**Puran Mal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwan**  
Authorized Signatory  
(Report No: TC502519100002205P )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	TC502519100002206P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711, Near Tiranga Hills Village ; Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	12-12-2019
Point of Collection :	Piezowell No.5 [74°35'7" N 25°24'0"E]	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017
5	pH	7.42	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	580	IS 3025 (Part 21) : 1983 RA 2014
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014
8	Chloride [mg/l]	335.07	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	1851	IS 3025 (Part 16) : 1984 RA 2017

Note:

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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	128	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	38.88	IS 3025 (Part 46) : 1994 RA 2014
12	Copper [mg/l]	0.04	IS 3025 (Part 42) : 1992 RA 2014
13	Manganese [mg/l]	0.02	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	258.33	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	36.06	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	1.37	IS 3025 (Part 60) : 2008 RA 2013
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014
19	Lead [mg/l]	0.01	IS 3025 (Part 47) : 1994 RA 2014
20	Zinc [mg/l]	0.04	IS 3025 (Part 49) : 1994 RA 2014
21	Alkalinity - T [mg/l]	550	IS 3025 (Part 23) : 1986 RA 2014
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014
23	Boron [mg/l]	0.38	IS 13428 (Annexure H)
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B

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

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014
29	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
30	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
31	Calcium Hardness [mg/l]	320	IS 3025 (Part 40) : 1991 RA 2014
32	Pesticides [mg/l]	Not Detected	APHA : 2017
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

### Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,31,33,34,35,36 covered under NABL scope and Parameter No. 27,32 does not cover under NABL scope
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

  
Puran Mal Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC502519100002206P )



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

## TEST REPORT

Report No./ULR No. :	TC502519100002207P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	12-12-2019
Point of Collection :	Piezowell No.6 [74°34'56" N 25°24'5"E]	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017
5	pH	7.13	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	560	IS 3025 (Part 21) : 1983 RA 2014
7	Iron [mg/l]	0.02	IS 3025 (Part 53) : 2003 RA 2014
8	Chloride [mg/l]	458.26	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	1842	IS 3025 (Part 16) : 1984 RA 2017

Note:

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*Parsa*



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

## RESULTS

S.No	Parameters	Observed Value	Testing Procedure
10	Calcium [mg/l]	152	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	43.74	IS 3025 (Part 46) : 1994 RA 2014
12	Copper [mg/l]	0.02	IS 3025 (Part 42) : 1992 RA 2014
13	Manganese [mg/l]	0.03	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	310	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	23.40	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	0.59	IS 3025 (Part 60) : 2008 RA 2013
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014
19	Lead [mg/l]	0.01	IS 3025 (Part 47) : 1994 RA 2014
20	Zinc [mg/l]	0.06	IS 3025 (Part 49) : 1994 RA 2014
21	Alkalinity - T [mg/l]	380	IS 3025 (Part 23) : 1986 RA 2014
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014
23	Boron [mg/l]	0.36	IS 13428 (Annexure H)
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B

Note:

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Raj



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Lab.: G1-584, Sitapura Industrial Area  
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Ph. : 94602-22039, 94602-22049

## RESULTS

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

S.No	Parameters	Observed Value	Testing Protocol
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014
29	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
30	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
31	Calcium Hardness [mg/l]	380	IS 3025 (Part 40) : 1991 RA 2014
32	Pesticides [mg/l]	Not Detected	APHA : 2017
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

### Notes ->

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,31,33,34,35,36 covered under NABL scope and Parameter No. 27,32 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
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- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC502519100002207P )



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

## TEST REPORT

Report No./ULR No. :	TC502519100002208P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	12-12-2019
Point of Collection :	Piezometer Well No. 7 [74°34'33" N 25°23'38"E]	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017
5	pH	7.42	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	520	IS 3025 (Part 21) : 1983 RA 2014
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014
8	Chloride [mg/l]	112.35	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	1193	IS 3025 (Part 16) : 1984 RA 2017

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[EngineeringDirector@teamtesthouse.com](mailto:EngineeringDirector@teamtesthouse.com)

## RESULTS

S.No	Parameters	Observed Value	Testing Standard
10	Calcium [mg/l]	120	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	53.46	IS 3025 (Part 46) : 1994 RA 2014
12	Copper [mg/l]	0.02	IS 3025 (Part 42) : 1992 RA 2014
13	Manganese [mg/l]	0.04	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	141.67	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	42.55	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	1.36	IS 3025 (Part 60) : 2008 RA 2013
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014
19	Lead [mg/l]	0.01	IS 3025 (Part 47) : 1994 RA 2014
20	Zinc [mg/l]	0.31	IS 3025 (Part 49) : 1994 RA 2014
21	Alkalinity - T [mg/l]	468	IS 3025 (Part 23) : 1986 RA 2014
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014
23	Boron [mg/l]	0.37	IS 13428 (Annexure H)
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
25	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B

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[Engineeringdirector@teamtesthouse.com](mailto:Engineeringdirector@teamtesthouse.com)

## RESULTS

S.No	Parameters	Observed Value	Testing Procedure
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014
29	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
30	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
31	Calcium Hardness [mg/l]	300	IS 3025 (Part 40) : 1991 RA 2014
32	Pesticides [mg/l]	Not Detected	APHA : 2017
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

### Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,31,33,34,35,36 covered under NABL scope and Parameter No. 27,32 does not cover under NABL scope
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

*Poojya*  
**Puran Vittal Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwan**  
Authorized Signatory  
(Report No: TC502519100002208P )



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## TEST REPORT

Report No./ULR No. :	TC502519100002209P	Date :	27-12-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	12-12-2019
Point of Collection :	Piezometer Well No. 8 [74°34'42" N 25°23'53"E]	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 26-12-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	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	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017
5	pH	8.18	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	236	IS 3025 (Part 21) : 1983 RA 2014
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014
8	Chloride [mg/l]	90.67	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	881	IS 3025 (Part 16) : 1984 RA 2017

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

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	19.2	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	45.68	IS 3025 (Part 46) : 1994 RA 2014
12	Copper [mg/l]	0.03	IS 3025 (Part 42) : 1992 RA 2014
13	Manganese [mg/l]	0.07	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	82.5	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	5.64	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	0.60	IS 3025 (Part 60) : 2008 RA 2013
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014
19	Lead [mg/l]	0.01	IS 3025 (Part 47) : 1994 RA 2014
20	Zinc [mg/l]	0.04	IS 3025 (Part 49) : 1994 RA 2014
21	Alkalinity - T [mg/l]	200	IS 3025 (Part 23) : 1986 RA 2014
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014
23	Boron [mg/l]	0.34	IS 13428 (Annexure H)
24	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
25	Free Residual Chlorine [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2014
26	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
27	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B

Note:

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

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
28	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014
29	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
30	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
31	Calcium Hardness [mg/l]	48	IS 3025 (Part 40) : 1991 RA 2014
32	Pesticides [mg/l]	Not Detected	APHA : 2017
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
35	E. Coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
36	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

### Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,29,30,31,33,34,35,36 covered under NABL scope and Parameter No. 27,32 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC502519100002209P )



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E-mail : director@teamtesthouse.com

## TEST REPORT

Report No : W/153  
Date : 28/12/2019  
Issued to : M/s Jindal Saw Limited (Dhedwas Mines)  
Dhedwas Iron Ore Copper & Associated Minerals Mines  
Araji No. 9697/6711 Near Tiranga Hills Village: Pur,  
Tehsil & District Bhilwara - 311802 (Rajasthan)  
Type of Unit : Mines  
Type of Sample : Water Level Measurement  
Date of Measurement : 12-13/12/2019  
Date of Recipit : 16/12/2019  
Water Level Measured By : Parsaram Kudi

## RESULTS

S.No	Location	Water Level in Meters BGL
1	Peizometer No.1	15.88
2	Peizometer No.2	7.32
3	Peizometer No.3	6.15
4	Peizometer No.4	2.27
5	Peizometer No.5	2.15
6	Peizometer No.6	9.49
7.	Peizometer No.7	4.39
8.	Peizometer No.8	4.86

**Note: -**

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Puran Maji Yogi  
Senior Analyst

  
Rajesh Maheshwar  
Authorized Signatory  
(Report No: W/153)



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E-mail : director@teamtesthouse.com

### TEST REPORT

Report No./ULR No. :	110000438	Date :	08-01-2020
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan).	Type of Unit :	Mines
Type of Sample :	soil /Sludge/Sediment / Solid waste Samples	Date of Sample Collection/Monitoring :	11-12-2019
Point of Collection :	Pur Village land of Kalu Ram ji in front of balaji temple	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 08-01-2020	Sampling Plan :	Not Available
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	Chloride as Cl [%]	0.024	Method Manual
2	Electrical Conductivity (EC) [micromho/cm]	630.99	Method Manual
3	pH	7.74	Method Manual
4	Potassium as K <sub>2</sub> O [%]	0.55	Method Manual
5	Sulphate [%]	0.45	Method Manual
6	Total Organic Carbon [%]	0.86	Method Manual
7	Nickel [mg/kg]	30.45	Method Manual
8	Copper [mg/kg]	96.04	Method Manual

Note:

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[testing@teamtesthouse.com](mailto:testing@teamtesthouse.com)

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
9	Zinc [mg/kg]	12.98	Method Manual
10	Texture	Loam	Method Manual
11	Cadmium [mg/kg]	BDL(<0.001)	Method Manual
12	Lead [mg/kg]	86.05	Method Manual
13	Nitrogen [%]	0.041	Method Manual
14	Phosphorous [%]	0.007	Method Manual
15	Chromium as Cr [mg/kg]	38.06	Method Manual
16	Carbonate as CO <sub>3</sub> [%]	0.49	Method Manual

### Notes :-

- # Parameter No. NONE covered under NABL scope and Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16 does not cover under NABL scope
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Puran Mal Vogi  
Senior Analyst

  
K.N. Mukhopadhyay  
Authorized Signatory  
(Report No: 110000438 )



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

### TEST REPORT

Report No./ULR No. :	110000436	Date :	08-01-2020
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan).	Type of Unit :	Mines
Type of Sample :	soil /Sludge/Sediment / Solid waste Samples	Date of Sample Collection/Monitoring :	11-12-2019
Point of Collection :	Dariba Village Land of Nandram ji back side of gram panchyat	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 08-01-2020	Sampling Plan :	Not Available
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	Chloride as Cl [%]	0.025	Method Manual
2	Electrical Conductivity (EC) [micromho/cm]	723.24	Method Manual
3	pH	7.39	Method Manual
4	Potassium as K <sub>2</sub> O [%]	0.44	Method Manual
5	Sulphate [%]	0.59	Method Manual
6	Total Organic Carbon [%]	0.47	Method Manual
7	Nickel [mg/kg]	26.10	Method Manual
8	Copper [mg/kg]	46.53	Method Manual

Note:

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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
9	Zinc [mg/kg]	34.24	Method Manual
10	Texture	Observation value	Method Manual
11	Cadmium [mg/kg]	BDL(<0.001)	Method Manual
12	Lead [mg/kg]	70.32	Method Manual
13	Nitrogen [%]	0.045	Method Manual
14	Phosphorous [%]	0.012	Method Manual
15	Chromium as Cr [mg/kg]	35.38	Method Manual
16	Carbonate as CO <sub>3</sub> [%]	Not Detect	Method Manual

### Notes :-

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K.N. Mukhoobadvay  
Authorized Signatory  
(Report No: 110000436 )



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## TEST REPORT

Report No./ULR No.:	110000439	Date :	08-01-2020
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan).	Type of Unit :	Mines
Type of Sample :	soil /Sludge/Sediment / Solid waste Samples	Date of Sample Collection/Monitoring :	11-12-2019
Point of Collection :	Kanoli Village land of shambu singh ji S/o Kishor singh ji	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 08-01-2020	Sampling Plan :	Not Available
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	Chloride as Cl [%]	0.014	Method Manual
2	Electrical Conductivity (EC) [micromho/cm]	330.51	Method Manual
3	pH	8.09	Method Manual
4	Potassium as K <sub>2</sub> O [%]	0.35	Method Manual
5	Sulphate [%]	0.28	Method Manual
6	Total Organic Carbon [%]	0.65	Method Manual
7	Total Organic Carbon [%]	0.65	Method Manual
8	Nickel [mg/kg]	32.28	Method Manual

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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
9	Copper [mg/kg]	25.01	Method Manual
10	Zinc [mg/kg]	36.85	Method Manual
11	Texture	Sandy Loam	Method Manual
12	Cadmium [mg/kg]	BDL(<0.001)	Method Manual
13	Lead [mg/kg]	13.98	Method Manual
14	Nitrogen [%]	0.039	Method Manual
15	Phosphorous [%]	0.002	Method Manual
16	Chromium as Cr [mg/kg]	48.41	Method Manual
17	Carbonate as CO <sub>3</sub> [%]	2.97	Method Manual

### Notes :-

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Senior Analyst

K.N. Mukhopadhyay  
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### TEST REPORT

Report No./ULR No. :	110000441	Date :	08-01-2020
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	soil /Sludge/Sediment / Solid waste Samples	Date of Sample Collection/Monitoring :	11-12-2019
Point of Collection :	Gandi Sagar	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 08-01-2020	Sampling Plan :	Not Available
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	Chloride as Cl [%]	0.027	Method Manual
2	Electrical Conductivity (EC) [micromho/cm]	838.86	Method Manual
3	pH	8.27	Method Manual
4	Potassium as K <sub>2</sub> O [%]	0.49	Method Manual
5	Sulphate [%]	0.51	Method Manual
6	Total Organic Carbon [%]	0.88	Method Manual
7	Nickel [mg/kg]	28.22	Method Manual
8	Copper [mg/kg]	45.80	Method Manual

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[director@teamtesthouse.com](mailto:director@teamtesthouse.com)

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol
9	Zinc [mg/kg]	34.08	Method Manual
10	Texture	clay Loam	Method Manual
11	Cadmium [mg/kg]	1.41	Method Manual
12	Lead [mg/kg]	67.14	Method Manual
13	Nitrogen [%]	0.05	Method Manual
14	Phosphorous [%]	0.011	Method Manual
15	Chromium as Cr [mg/kg]	39.22	Method Manual
16	Carbonate as CO <sub>3</sub> [%]	13.92	Method Manual

#### Notes :-

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K.N. Mukhopadhyay  
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### TEST REPORT

Report No./ULR No.:	110000435	Date :	08-01-2020
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	soil /Sludge/Sediment / Solid waste Samples	Date of Sample Collection/Monitoring :	11-12-2019
Point of Collection :	Samodi Village Land of Narayan Ji S/o Khem Ji Aher in front of Ashok Sadan	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 08-01-2020	Sampling Plan :	Not Available
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	Chloride as Cl [%]	0.016	Method Manual
2	Electrical Conductivity (EC) [micromho/cm]	632.5	Method Manual
3	pH	8.07	Method Manual
4	Potassium as K <sub>2</sub> O [%]	0.42	Method Manual
5	Sulphate [%]	0.43	Method Manual
6	Total Organic Carbon [%]	0.85	Method Manual
7	Nickel [mg/kg]	22.64	Method Manual
8	Nickel [mg/kg]	22.64	Method Manual

Note:

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### RESULTS

Sl. No	Parameters	Observed Value	Testing Protocol
9	Copper [mg/kg]	41.12	Method Manual
10	Copper [mg/kg]	41.12	Method Manual
11	Zinc [mg/kg]	42.07	Method Manual
12	Texture	Loam	Method Manual
13	Cadmium [mg/kg]	0.29	Method Manual
14	Lead [mg/kg]	93.52	Method Manual
15	Nitrogen [%]	0.018	Method Manual
16	Phosphorous [%]	0.0061	Method Manual
17	Chromium as Cr [mg/kg]	27.81	Method Manual
18	Carbonate as CO <sub>3</sub> [%]	1.98	Method Manual

#### Notes :-

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**Puran Mar Yogi**  
Senior Analyst

  
**K.N. Mukhonhadvay**  
Authorized Signatory  
(Report No: 110000435)



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### TEST REPORT

Report No./ULR No. :	110000437	Date :	08-01-2020
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan).	Type of Unit :	Mines
Type of Sample :	soil /Sludge/Sediment / Solid waste Samples	Date of Sample Collection/Monitoring :	12-12-2019
Point of Collection :	Dhulkhera Village land og Badri Ji Nath	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 08-01-2020	Sampling Plan :	Not Available
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	Chloride as Cl [%]	0.014	Method Manual
2	Electrical Conductivity (EC) [micromho/cm]	326.6	Method Manual
3	pH	7.95	Method Manual
4	Potassium as K <sub>2</sub> O [%]	0.43	Method Manual
5	Sulphate [%]	0.082	Method Manual
6	Total Organic Carbon [%]	0.86	Method Manual
7	Nickel [mg/kg]	34.30	Method Manual
8	Copper [mg/kg]	221.03	Method Manual

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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
9	Zinc [mg/kg]	82.66	Method Manual
10	Texture	Sandy Loam	Method Manual
11	Cadmium [mg/kg]	BDL(<0.001)	Method Manual
12	Lead [mg/kg]	34.39	Method Manual
13	Nitrogen [%]	0.036	Method Manual
14	Phosphorous [%]	0.0077	Method Manual
15	Chromium as Cr [mg/kg]	43.71	Method Manual
16	Carbonate as CO <sub>3</sub> [%]	0.5	Method Manual

### Notes :-

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*Purana*  
**Puran Mal Yogi**  
Senior Analyst

*K.N. Mukhopadhyay*  
**K.N. Mukhopadhyay**  
Authorized Signatory  
(Report No: 110000437)



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### TEST REPORT

Report No./JLR No. :	110000440	Date :	08-01-2020
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	soil /Sludge/Sediment / Solid waste Samples	Date of Sample Collection/Monitoring :	11-12-2019
Point of Collection :	Suras Village Dumpyard land of Ratan Lal S/o Laju ji	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 08-01-2020	Sampling Plan :	Not Available
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	Chloride as Cl [%]	0.026	Method Manual
2	Electrical Conductivity (EC) [micromho/cm]	1264.96	Method Manual
3	pH	8.02	Method Manual
4	Potassium as K <sub>2</sub> O [%]	0.86	Method Manual
5	Sulphate [%]	0.48	Method Manual
6	Total Organic Carbon [%]	0.75	Method Manual
7	Nickel [mg/kg]	56.95	Method Manual
8	Copper [mg/kg]	54.24	Method Manual

Note:

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## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
9	Zinc [mg/kg]	83.86	Method Manual
10	Texture	Clay	Method Manual
11	Cadmium [mg/kg]	BDL(<0.001)	Method Manual
12	Lead [mg/kg]	103.95	Method Manual
13	Nitrogen [%]	0.044	Method Manual
14	Phosphorous [%]	0.0059	Method Manual
15	Chromium as Cr [mg/kg]	81.27	Method Manual
16	Carbonate as CO <sub>3</sub> [%]	0.49	Method Manual

### Notes :-

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*Poojya*  
**Puran Mal Yogi**  
Senior Analyst

*K.N. Mukhopadhyay*  
**K.N. Mukhopadhyay**  
Authorized Signatory  
(Report No: 110000440 )



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### TEST REPORT

Report No./ULR No. :	110000442	Date :	08-01-2020
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan).	Type of Unit :	Mines
Type of Sample :	soil /Sludge/Sediment / Solid waste Samples	Date of Sample Collection/Monitoring :	13-12-2019
Point of Collection :	Plant Side (Near Switch Yard)	Date of Receipt :	16-12-2019
Date of Test/Analysis :	16-12-2019 to 08-01-2020	Sampling Plan :	Not Available
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	Chloride as Cl [%]	0.011	Method Manual
2	Electrical Conductivity (EC) [micromho/cm]	268.69	Method Manual
3	pH	7.99	Method Manual
4	Potassium as K <sub>2</sub> O [%]	1.18	Method Manual
5	Sulphate [%]	1.05	Method Manual
6	Total Organic Carbon [%]	0.71	Method Manual
7	Nickel [mg/kg]	50.51	Method Manual
8	Copper [mg/kg]	219.64	Method Manual

Note:

Continue to next page...



# 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**

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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 : testhouse@gmail.com

E-mail : director@teamtesthouse.com

## RESULTS

S.No.	Parameters	Observed Value	Testing Protocol
9	Zinc [mg/kg]	1330.80	Method Manual
10	Texture	Sandy Loam	Method Manual
11	Cadmium [mg/kg]	BDL(<0.001)	Method Manual
12	Lead [mg/kg]	1033.04	Method Manual
13	Nitrogen [%]	0.042	Method Manual
14	Phosphorous [%]	0.006	Method Manual
15	Chromium as Cr [mg/kg]	66.97	Method Manual
16	Carbonate as CO <sub>3</sub> [%]	4.98	Method Manual

Notes :-

- # Parameter No. NONE covered under NABL scope and Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

  
Puran Malhotra  
Senior Analyst

  
K.N. Mukhonbadryav  
Authorized Signatory  
(Report No: 110000442 )



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## TEST REPORT

Report No TC502519600002447 to 02453  
Date 31/12/2019  
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 11/12/2019 to 15/12/2019  
Date of Sample Receipt 16/12/2019  
Date of Test 12/12/2019  
Sample Collected by Parsaram Kudi  
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.	Pur Village [74°32'27"N 25°18'01"E]	Rural Area	53.4	42.5
2.	Samodi Village [74°32'57"N 25°20'56"E]	Rural Area	50.3	41.2
3.	Suras Village [74°33'40"N 25°23'16"E]	Rural Area	51.0	42.2
4.	Gandhi Sagar park, Bhilwara [74°38'56"N 25°20'11"E]	Rural Area	53.5	41.5
5.	Kanoli Village[74°36'10"N 25°16'12"E]	Rural Area	48.6	38.3
6.	Dhulkhera Village[74°35'17"N 25°24'03"E]	Rural Area	52.9	40.1
7.	Dariba Village [74°31'45"N 25°20'35"E]	Rural Area	50.7	42.1

### 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

### 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.

Puran Mal Yogi  
Senior Analyst

Rajesh Maheshwar  
Authorized Signatory

(Report No.: - TC502519600002447 to 02453)



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## TEST REPORT

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

Report No. TC502519600002454 to 02461  
Date 31/12/2019  
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)  
Mines  
Type of Unit  
Date of Monitoring 11/12/2019 to 15/12/2019  
Date of Sample Receipt 16/12/2019  
Date of Test 16/12/2019  
Sample Collected by Sitaram Jangid  
Type of Monitoring Ambient Noise Monitoring

## RESULTS

Sr. No.	Point Of Monitoring	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Nr. Raw Material Storage yard (Tiranga Pit) [74°32'12"N 25°19'16"E]	68.2	58.7
2.	Dhulkhera Pit 10.0 m of loading Point [74°34'30"N 25°23'41"E]	68.4	59.0
3	Suras Pit 10.0 m of loading Point [74°34'04"N 25°23'28"E]	67.3	59.5
4	Tiranga Pit 10.0 m of loading Point [74°32'10"N 25°19'27"E]	67.5	60.8
5	Filter Press Building [74°32'20"N 25°19'07"E]	71.7	60.2
6	CCR- Crusher Plant [74°32'06"N 25°19'06"E]	72.7	62.4
7	Tata Blue Scope Shed [74°32'06"N 25°19'03"E]	71.6	62.4
8	CCR -BFN Plant [74°32'14"N 25°19'04"E]	69.4	58.9

### 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: -

- The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Puran Mal Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory

(Report No.: TC502519600002454 to 2461)