



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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ISO 9001:2015

OHSAS 18001:2007

JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	TC502519400002443P	Date :	17-09-2019
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 :	06-09-2019
Point of Collection :	Pur Village (74°32'27"N,25°18'01"E)	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 14-09-2019	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]	230	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.66	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]	156.89	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500

Note:

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E-mail : director@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Units as per National Ambient Air Quality Standard, 2009
7	Particulate Matter (PM2.5) [microgram/m3]	29.86	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.79	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	63.42	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]	4.2	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.
- # 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 Maurya
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519400002443P)



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TEST REPORT

Report No./ULR No. :	TC502519400002442P	Date :	17-09-2019
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 :	06-09-2019
Point of Collection :	Dariba Village (74°31'40"N,25°20'34"E)	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 14-09-2019	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 ³]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	180	IS 5182 (Part 10) : 1999	4000
3	Carbon Monoxide [microgram/m ³]	180	IS 5182 (Part 10) : 1999	4000
4	Lead [microgram/m ³]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
5	Nitrogen Dioxide as NO ₂ [microgram/m ³]	9.63	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
6	Ozone [microgram/m ³]	BDL (<20.0)	APHA 1977,Part 819	100.00

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
7	Suspended Particulate Matter (SPM) [microgram/m ³]	117	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500
8	Particulate Matter (PM _{2.5}) [microgram/m ³]	25.76	CPCB Guidelines	60.00
9	Sulphur Dioxide [microgram/m ³]	4.29	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
10	Particulate Matter (PM ₁₀) [microgram/m ³]	53.08	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
11	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
12	Benzo-alfa- Pyrene [ng/m ³]	BDL(<0.5)	CPCB Guidelines	1.00
13	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
14	Nickel [ng/m ³]	3.4	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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Purnan Mai Yogi
Senior Analyst


Raresh Maheshwan
Authorized Signatory
(Report No: TC502519400002442P)



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TEST REPORT

Report No./ULR No. :	TC502519400002444P	Date :	17-09-2019
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 :	06-09-2019
Point of Collection :	Kanoli Village (74°35'58"N,25°16'15"E)	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 14-09-2019	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 ³]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	130	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	10.39	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	120.17	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limit as per National Ambient Air Quality Standard, 2009
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	15.77	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	4.41	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	55.82	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m ³]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m ³]	2.9	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory

(Report No: TC502519400002444P)



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TEST REPORT

Report No./ULR No. :	TC502519400002446P	Date :	17-09-2019
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 :	04-09-2019
Point of Collection :	Gandhisagar Sagar Park (74°38'56"N,25°20'11"E)	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 14-09-2019	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 ³]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	280	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	12.96	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	137.77	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limit as per National Ambient Air Quality Standard, 2009
7	Particulate Matter (PM2.5) [microgram/m3]	28.4	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.16	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	61.22	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]	3.7	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran Maheshwari
Puran Maheshwari

Senior Analyst

Raj
Rajesh Maheshwari
Authorized Signatory

(Report No: TC502519400002446P)



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TEST REPORT

Report No./ULR No. :	TC502519400002445P	Date :	17-09-2019
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 :	07-09-2019
Point of Collection :	PMS Building BFN Plant (74°32'15"N,25°19'05"E)	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 14-09-2019	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 ³]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	320	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.29	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	12.09	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	154.38	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Standard
7	Particulate Matter (PM2.5) [microgram/m3]	26.6	CPCB Guidelines	National Ambient Air Quality Standard, 2009 60.00
8	Sulphur Dioxide [microgram/m3]	5.99	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	67.15	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]	2.6	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Purni Mai Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519400002445P)



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TEST REPORT

Report No./ULR No. :	TC502519400002447P	Date :	17-09-2019
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 :	07-09-2019
Point of Collection :	Mines Workshop (74°31'55"N,25°18'52"E)	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 14-09-2019	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]	360	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.28	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.81	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]	163.36	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500

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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]	26.52	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	3.39	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	65.69	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]	2.3	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
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Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519400002447P)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502519400002438P	Date :	16-09-2019
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 :	02-09-2019
Point of Collection :	Near Tiranga Pit [25°19.526" N 074°32.326"E]	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 16-09-2019	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 ³]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	240	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	11.68	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	146.85	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
7	Particulate Matter (PM2.5) [microgram/m ³]	23.46	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	6.89	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m ³]	64.83	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m ³]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m ³]	2.3	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519400002438P)



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TEST REPORT

Report No./ULR No. :	TC502519400002441P	Date :	17-09-2019
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 :	06-09-2019
Point of Collection :	Samodi Village (74°32'57"N,25°20'53"E)	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 14-09-2019	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]	160	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.09	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	9.57	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]	125.25	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500

Note:

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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 _{2.5}) [microgram/m ³]	23.5	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	3.25	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	53.24	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m ³]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m ³]	1.9	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory

(Report No: TC502519400002441P)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502519400002439P	Date :	17-09-2019
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 :	03-09-2019
Point of Collection :	Dhulkhera Pit (74°34'31"N, 25°23'37"E)	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 14-09-2019	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 ³]	BDL (<10.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	310	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	12.44	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	142.99	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500

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RESULTS

E-mail : teamtesthouse@gmail.com
E-mail : 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]	19.72	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	5.48	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	62.09	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]	2.3	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran Mal Yogi
Senior Analyst


Raiesh Maheshwari
Authorized Signatory
(Report No: TC502519400002439P)



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TEST REPORT

Report No./ULR No. :	TC502519400002440P	Date :	17-09-2019
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 :	05-09-2019
Point of Collection :	Suras Pit (74°34'12"N,25°23'24"E)	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 14-09-2019	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]	0.34	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.5	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]	164.88	IS 5182 (Part 4) : 1999 Reaffirmed 2014	500

Note:

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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 _{2.5}) [microgram/m ³]	23.17	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	8.99	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	72.18	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00
10	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182 (Part 11) : 2006	5.00
11	Benzo-alfa- Pyrene [ng/m ³]	BDL(<0.5)	CPCB Guidelines	1.00
12	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2014	6.00
13	Nickel [ng/m ³]	2	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519400002440P)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	TC502519400002790F	Date :	10-10-2019
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 :	30-09-2019
Point of Collection :	Near Tiranga Pit (74°32'07"N 29°19'03"E)	Date of Receipt :	01-10-2019
Date of Test/Analysis :	01-10-2019 to 10-10-2019	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/m3]	360	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.04	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	163.7	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	28.79	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.44	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	74.58	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwar
Authorized Signatory

(Report No: TC502519400002790F)



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TEST REPORT

Report No./ULR No. :	TC502519400002793F	Date :	10-10-2019
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 :	30-10-2019
Point of Collection :	Samodi Village (74°32'42" N 26°20'02"E]	Date of Receipt :	01-10-2019
Date of Test/Analysis :	01-10-2019 to 10-10-2019	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/m3]	220	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	8.27	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	117.6	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	20.06	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	3.34	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	56.33	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502519400002793F)



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TEST REPORT

Report No./ULR No. :	TC502519400002792F	Date :	10-10-2019
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 :	29-09-2019
Point of Collection :	Suras Pit (74°34'11"N,25°23'24"E)	Date of Receipt :	01-10-2019
Date of Test/Analysis :	01-10-2019 to 10-10-2019	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/m3]	320	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	10.97	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	205.22	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	32.8	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	4.62	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	84.56	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
- # Parameter No. NONE outsourced for testing.
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Puran Mah Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory

(Report No: TC502519400002792F)



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TEST REPORT

Report No./ULR No. :	TC502519400002791F	Date :	10-10-2019
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 :	29-09-2019
Point of Collection :	Dhulkhera Pit [74°34'31"N 25°23'37"E]	Date of Receipt :	01-10-2019
Date of Test/Analysis :	01-10-2019 to 10-10-2019	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/m3]	340	IS 5182 (Part 10) : 1999	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.15	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	129.51	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
4	Particulate Matter (PM2.5) [microgram/m3]	22.82	CPCB Guidelines	60.00
5	Sulphur Dioxide [microgram/m3]	6.06	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6	Particulate Matter (PM 10) [microgram/m3]	61.28	IS 5182 (Part 23)-2006 Reaffirmed 2012	100.00

Notes :-

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Senior Analyst

Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502519400002495F	Date :	18-09-2019
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 :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	09-09-2019
Point of Collection :	Crusher Unit Near Centre Workshop	Date of Receipt :	11-09-2019
Date of Test/Analysis :	11-09-2019 to 18-09-2019	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
1	Suspended Particulate Matter [microgram/m ³]	329.42	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
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TEST REPORT

Report No./ULR No. :	TC502519400002496F	Date :	18-09-2019
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 :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	10-09-2019
Point of Collection :	Screening Area -Crusher [74°32'11" N 25°19'10"E]	Date of Receipt :	11-09-2019
Date of Test/Analysis :	11-09-2019 to 18-09-2019	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
1	Suspended Particulate Matter [microgram/m ³]	333.47	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
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Senior Analyst


Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502519400002493F	Date :	18-09-2019
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 :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	10-09-2019
Point of Collection :	Raw Material storage Yard (Near Weigh Bridge)	Date of Receipt :	11-09-2019
Date of Test/Analysis :	11-09-2019 to 18-09-2019	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
1	Suspended Particulate Matter [microgram/m ³]	245.4	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
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Senior Analyst


Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502519400002494F	Date :	18-09-2019
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 :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	07-09-2019
Point of Collection :	Haul Road [74°32'42" N 25°20'2"E]	Date of Receipt :	11-09-2019
Date of Test/Analysis :	11-09-2019 to 18-09-2019	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
1	Suspended Particulate Matter [microgram/m ³]	262.99	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
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Senior Analyst


Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502519400002497F	Date :	18-09-2019
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 :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	10-09-2019
Point of Collection :	Waste Dump Storage [74°32'17" N 25°19'21"E]	Date of Receipt :	11-09-2019
Date of Test/Analysis :	11-09-2019 to 18-09-2019	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
1	Suspended Particulate Matter [microgram/m ³]	345.96	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

- # Parameter No. 1 covered under NABL scope and Parameter No. NONE does not cover under NABL scope
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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519400002497F)



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TEST REPORT

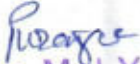
Report No./ULR No. :	TC502519500001156P	Date :	18-09-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara, District-Bhilwara 311802 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	10-09-2019
Point of Collection :	DG Set 1010 KVA	Date of Receipt :	11-09-2019
Date of Test/Analysis :	11-09-2019 to 16-09-2019	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Parsa Ram Kudi
Unit's representative :	Shitanshu Pandey	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	37.67	IS 11255 (Part 1):1985 Reaffirmed 2014	75
2	Sulphur Dioxide [mg/Nm ³]	BDL(<2.0)	IS 11255(Part 2) :1985 Reaffirmed 2014	-
3	Oxides of Nitrogen [mg/Nm ³]	285	IS 11255 (Part 7) :1985 Redffirmed 2012	710 ppmv
4	Carbon monoxide [mg/Nm ³]	80	IS 5182 (Part 10) : 1999	150
5	Hydrocarbon [mg/Nm ³]	19	IS 5182 (Part 10) : 1999	100

Notes :-

- # Parameter No. 1,2,3,4 covered under NABL scope and Parameter No. 5 does not cover under NABL scope
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Senior Analyst


Rajesh Maheshwari
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(Report No: TC502519500001156P)



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TEST REPORT

Report No./ULR No. :	TC502519100001506P	Date :	23-09-2019
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 :	07-09-2019
Point of Collection :	Pur Village (74°32'27"N,25°18'01"E)	Date of Receipt :	07-09-2019
Date of Test/Analysis :	07-09-2019 to 23-09-2019	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	7.82	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	112	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]	49.98	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00

Note:

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RESULTS

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Requirements (Acceptable Limit) as per IS 10500 : 2012
Standards Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012

S.No	Parameters	Observed Value	Testing Protocol	Requirements (Acceptable Limit) as per IS 10500 : 2012	Standards Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
9	Total Dissolved Solids [mg/l]	323	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	27.2	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	10.69	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	-
14	Sulphate [mg/l]	45.26	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	9.35	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.35	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]	96	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]	0.35	IS 13428 (Annexure H)	0.5	1.0
24	Suspended Solids [mg/l]	Less than 1	IS 3025 (Part 17) : 1984 RA 2017	-	-
25	Total Chromium [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-

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
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]	68	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	Selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
34	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 2003	0.001	-
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
36	Total Coliform [MPN/100ml]	BDL	IS 5401(Part-2):2012 IS 5887 (Part-1): 1976 RA 2013	Shall not be Detectble in any 100 ml sample	-
37	E. Coli [MPN/100ml]	BDL			-

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


Purnima Yaggi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No. TC502519100001506P)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502519100001523P	Date :	23-09-2019
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 :	07-09-2019
Point of Collection :	Dariba Village [74°31'39"N 25°20'34"E]	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 23-09-2019	Sampling Plan :	IS 3025:1987(Part 1)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	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	7.57	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	480	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]	127.19	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]	972	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	139.2	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	32.08	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]	172.22	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	23.67	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.42	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	0.05
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]	360	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	Suspended Solids [mg/l]	Less than 1	IS 3025 (Part 17) : 1984 RA 2017	-	-
25	Total Chromium [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0

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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]	348	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	Selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
34	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 2003	0.001	-
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
36	Total Coliform [MPN/100ml]	BDL	IS 5401(Part-2):2012	Shall not be	-
37	E. Coli [MPN/100ml]	BDL	IS 5887 (Part-1): 1976 RA 2013	Detectble in any 100 ml sample	-

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 covered under NABL scope and Parameter No. 27,31 does not cover under NABL scope
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Anil Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519100001523P)



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TEST REPORT

Report No./ULR No. :	TC502519100001508P	Date :	23-09-2019
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 :	07-09-2019
Point of Collection :	Kanoli Village (74°36'11"N,25°16'12"E)	Date of Receipt :	07-09-2019
Date of Test/Analysis :	07-09-2019 to 23-09-2019	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	7.60	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	120	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00

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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
7	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	19.99	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	255	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	32	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	-	-
14	Sulphate [mg/l]	25.62	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	3.17	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.45	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	-	-
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	5.00	15.00
21	Alkalinity - T [mg/l]	156	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	-	-
23	Boron [mg/l]	0.23	IS 13428 (Annexure H)	0.5	1.0
24	Suspended Solids [mg/l]	Less than 1	IS 3025 (Part 17) : 1984 RA 2017	-	-
25	Total Chromium [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	-	-
26	Free Residual Chlorine [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2014	-	-

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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]	80	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	Selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
34	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 2003	0.001	-
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
36	Total Coliform [MPN/100ml]	BDL	IS 5401(Part-2)-2012	Shall not be	-
37	E. Coli [MPN/100ml]	BDL	IS 5887 (Part-1): 1976 RA 2013	Detectible in any 100 ml sample	-

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 covered under NABL scope and Parameter No. 27,31 does not cover under NABL scope
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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519100001508P)



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TEST REPORT

Report No./ULR No. :	TC502519100001507P	Date :	23-09-2019
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 :	07-09-2019
Point of Collection :	Gandhi Sagar Park (74°38'57"N,25°20'11"E)	Date of Receipt :	07-09-2019
Date of Test/Analysis :	07-09-2019 to 23-09-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Parsa Ram Kudl
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]	490	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]	144.96	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]	1063	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	152	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	26.73	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	-
14	Sulphate [mg/l]	140.33	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	15.47	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.24	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]	340	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	Suspended Solids [mg/l]	Less than 1	IS 3025 (Part 17) : 1984 RA 2017	-	-
25	Total Chromium [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0

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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]	380	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	Selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
34	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 2003	0.001	-
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
36	Total Coliform [MPN/100ml]	BDL	IS 5401(Part-2):2012	Shall not be	-
37	E. Coli [MPN/100ml]	BDL	IS 5887 (Part-1): 1976 RA 2013	Detectble in any 100 ml sample	-

Notes :-

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Senior Analyst

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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	TC502519100001522P	Date :	23-09-2019
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 :	07-09-2019
Point of Collection :	Samodi Village (74°32'58"N,25°20'56"E)	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 23-09-2019	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	7.37	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	330	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]	151.66	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00

Note:

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RESULTS

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E-mail : director@teamtesthouse.com

Requirement (Acceptable Limit) as per IS 10500 : 2012. Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012

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]	813	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	84	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	29.16	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]	152.11	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	26.12	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.38	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]	190	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]	0.32	IS 13428 (Annexure H)	0.5	1.0
24	Suspended Solids [mg/l]	Less than 1	IS 3025 (Part 17) : 1984 RA 2017	-	-
25	Total Chromium [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0

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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]	210	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	Selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
34	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 2003	0.001	-
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
36	Total Coliform [MPN/100ml]	BDL	IS 5401(Part-2):2012	Shall not be	-
37	E. Coli [MPN/100ml]	BDL	IS 5887 (Part-1): 1976 RA 2013	Detectble in any 100 ml sample	-

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 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 Maheshwari
Authorized Signatory
(Report No: TC502519100001522P)



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TEST REPORT

Report No./ULR No.:	TC502519100001533P	Date :	23-09-2019
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 :	10-09-2019
Point of Collection :	Dhulkhera Village (74°35'31"N,25°23'59"E)	Date of Receipt :	11-09-2019
Date of Test/Analysis :	11-09-2019 to 23-09-2019	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]	460	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]	180.03	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]	1211	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]	29.16	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]	135	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	25.20	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.62	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]	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]	0.33	IS 13428 (Annexure H)	0.5	1.0
24	Suspended Solids [mg/l]	Less than 1	IS 3025 (Part 17) : 1984 RA 2017	-	-
25	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-

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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]	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	Selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
34	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 2003	0.001	-
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
36	Total Coliform [MPN/100ml]	BDL	IS 5401(Part-2):2012	Shall not be	-
37	E. Coli [MPN/100ml]	BDL	IS 5887 (Part-1): 1976 RA 2013	Detectble in any 100 ml sample	-

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


Duran Mal Yogi
Senior Analyst


Rakesh Maheshwari
Authorized Signatory
(Report No: TC502519100001533P)



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TEST REPORT

Report No./ULR No.:	TC502519100001534P	Date:	23-09-2019
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:	10-09-2019
Point of Collection:	Suras Village [74°33'40" N 25°23'59"E]	Date of Receipt:	11-09-2019
Date of Test/Analysis:	11-09-2019 to 23-09-2019	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	7.23	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	480	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	-

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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
8	Chloride [mg/l]	228.95	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1226	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	140	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	31.59	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]	95.55	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	27.24	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.52	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]	296	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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E-mail : director@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
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]	350	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	Selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
34	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 2003	0.001	-
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
36	Total Coliform [MPN/100ml]	BDL	IS 5401(Part-2):2012	Shall not be	-
37	E. Coli [MPN/100ml]	BDL	IS 5887 (Part-1): 1976 RA 2013	Detectble in any 100 ml sample	-

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 covered under NABL scope and Parameter No. 27,31 does not cover under NABL scope
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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.


Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519100001534P)



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TEST REPORT

Report No./ULR : TC502519100001535
Date : 23-09-2019
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 : 10-09-2019
Date of Sample Receipt : 11-09-2019
Date of Test : 11-09-2019 to 23-09-2019
Sample Collected By : Parsaram Kudi
PiezoWell No.1
Point of Collection : [74°32'20"N 25°19'07"E]

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	7.72	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	460	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	0.09	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	171.22	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1296	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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RESULTS

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Tonk Road, JAIPUR-302022 Raj.
Ph. : 94602-22039, 94602-22049

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
10	Calcium [mg/l]	100	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	51.03	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]	161.10	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	27.82	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.42	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]	0.21	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	200	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	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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Ph : 94602-22039, 94602-22049

Email : teamtesthouse@gmail.com
E-mail : director@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
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	250	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

- # 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.
- # Parameters No. 35 & 36 are not in NABL Scope


Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: TC502519100001535)



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TEST REPORT

Report No./ULR. : TC502518100001536
Date : 23-09-2019
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 : 10-09-2019
Date of Sample Receipt : 11-09-2019
Date of Test : 11-09-2019 to 23-09-2019
Sample Collected By : Parsaram Kudi
Point of Collection : Piezometer Well No. 2 (plant gate no.6)
(74°32'50"N25°20'04"E)

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	7.81	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	244	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	0.03	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	19.71	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	508	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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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
10	Calcium [mg/l]	65.6	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	19.44	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]	72.22	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	25.71	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.72	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]	0.09	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	328	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	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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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	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	164	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

- # 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.
- # Parameters No. 36 & 37 are not in NABL Scope

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502518100001536)



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TEST REPORT

Report No./ULR : TC502518100001537
Date : 23-09-2019
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 : 10-09-2019
Date of Sample Receipt : 11-09-2019
Date of Test : 11-09-2019 to 23-09-2019
Sample Collected By : Parsaram Kudi
Point of Collection : Piezometer Well No. 3
(74°33'50"N 25°23'32"E)

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	7.63	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	404	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	0.07	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	132.06	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	822	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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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
10	Calcium [mg/l]	115.2	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	28.19	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]	88.88	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	38.06	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.83	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]	0.35	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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E-mail : director@teamtesthouse.com

Phone : 0141-2369980, 2771865

Website : 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
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	288	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.
- # Parameters No. 36 & 37 are not in NABL Scope


Puran Mai Yogi
Senior Analyst


Rajesh Maneshwari
Authorized Signatory
(Report No: TC502518100001537)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR : TC502519100001538
Date : 23-09-2019
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 : 10-09-2019
Date of Sample Receipt : 11-09-2019
Date of Test : 11-09-2019 to 23-09-2019
Sample Collected By : Parsaram Kudi
Point of Collection : Piezometer Well No. 4
(74°34'18"N25°23'18"E)

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	7.19	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	340	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	0.05	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	202.03	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1139	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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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
10	Calcium [mg/l]	88	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	29.16	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]	138.45	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	57.45	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.54	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]	240	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	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	220	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

- # 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.
- # Parameters No. 36 & 37 are not in NABL Scope.

Ruman Mal Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No TC502518100001538)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR : TC502518100001539
Date : 23-09-2019
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 : 10-09-2019
Date of Sample Receipt : 11-09-2019
Date of Test : 11-09-2019 to 23-09-2019
Sample Collected By : Parsaram Kudi
Piezometer Well No. 5 [74°35'06"N
25°24'40"E]

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]	46	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.25	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	540	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	0.10	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	231.59	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1746	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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E-mail : director@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
10	Calcium [mg/l]	128	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	53.46	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]	245.66	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	32.49	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.32	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]	0.15	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	350	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]	0.32	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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E-mail: director@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	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	320	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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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.
- # Parameters No. 36 & 37 are not in NABL Scope


Senior Analyst


Rajesh Maheshwar
Authorized Signatory

(Report No: TC502518100001539)



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TEST REPORT

Report No./ULR. : TC502518100001540
Date : 23-09-2019
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 : 10-09-2019
Date of Sample Receipt : 11-09-2019
Date of Test : 11-09-2019 to 23-09-2019
Sample Collected By : Parsaram Kudi
Point of Collection : Piezometer Well No. 6 (Dhulkhera mine)
[74°34'56"N 25°24'05"E]

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	7.38	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	560	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	0.10	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	404.06	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1686	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

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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
10	Calcium [mg/l]	156	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]	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]	262	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	33.18	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.40	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]	0.26	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]	0.41	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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(Acceptable)@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	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	390	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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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.
- # Parameters No. 36 & 37 are not in NABL Scope.


Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: TC502518100001540)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No/ULR : TC502518100001541
Date : 23-09-2019
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 : 10-09-2019
Date of Sample Receipt : 11-09-2019
Date of Test : 11-09-2019 to 23-09-2019
Sample Collected By : Parsaram Kudi
Point of Collection : Piezometer Well No. 7
[74°34'31"N 25°23'34"E]

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	7.96	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]	0.11	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	88.7	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	876	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	104	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]	BDL(<0.01)	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	110.12	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	29.65	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.59	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]	280	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	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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Standard limits in the

absence of Alternate

Sources as

per IS 10500 : 2012

per IS 10500 : 2012

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard limits in the absence of Alternate Sources as per IS 10500 : 2012
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	260	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.
- # Parameters No. 36 & 37 are not in NABL Scope


Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502518100001541)



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TEST REPORT

Job Identification : TC502518100001542
Date : 23-09-2019
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 : 10-09-2019
Date of Sample Receipt : 11-09-2019
Date of Test : 11-09-2019 to 23-09-2019
Sample Collected By : Parsaram Kudi
Point of Collection : Piezometer Well No. 8
[74°34'42"N25°23'42"E]

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	8.12	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	380	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	0.13	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	88.7	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	868	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

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teamtesthouse@yahoo.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
10	Calcium [mg/l]	88	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	38.88	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]	96.23	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	30.61	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.67	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]	0.18	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	260	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]	0.36	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012	Shall not be detectable in 100 ml sample	-
26	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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Ph.: 04602-22039, 04602-22049

Requirement : testhouse@gmail.com
E-Acceptable : teamtesthouse.com

Standard : Permissible
Limit) as per IS
10500 : 2012
limits in the
absence of
Alternate
Sources as
per IS 10500 :
2012

S.No	Parameters	Observed Value	Testing Protocol	Requirement	Standard
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
28	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
32	Calcium Hardness [mg/l]	220	IS 3025 (Part 40) : 1991 RA 2014	-	-
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
34	Mineral Oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1999 RA 2014	0.5	-
35	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
36	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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- # Parameters No. 36 & 37 are not in NABL Scope

Puran
Puran Mal Yoy.

Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory

(Report No: TC502518100001542)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502519200001234P	Date :	18-09-2019
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 :	Wastewater Sample	Date of Sample Collection/Monitoring :	05-09-2019
Point of Collection :	Tailing Pond (74°32'15"N 25°19'28"E)	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 18-09-2019	Sampling Plan :	APHA 2017 : 1060
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	Total Dissolved Solids [mg/l]	963	APHA :2540 C :2017
2	Total Suspended Solids [mg/l]	15	APHA.2017:2540-D
3	Ammonical Nitrogen as N [mg/l]	4.48	APHA 2017 : 4500-NH3 C
4	Biochemical Oxygen Demand (BOD) [mg/l]	2	APHA 2017:5210-B
5	Chemical Oxygen Demand (COD) [mg/l]	8.74	APHA:2017 : 5220-C
6	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D
7	Dissolved Oxygen [mg/l]	6.0	APHA 2017 : 4500- O C
8	Fluoride [mg/l]	0.39	APHA:2017 : 4500-F-C
9	Nitrate Nitrogen as NO3-N [mg/l]	5.70	APHA 2017 : 4500-NO3- B
10	pH	7.01	APHA:2017 : 4500 H+B
11	Phosphate (total) as P [mg/l]	BDL(<0.1)	APHA 2017 : 4500-P C
12	Sulphide [mg/l]	BDL(<0.1)	APHA:2017 : 4500-SO4-E
13	Total Kjeldahl Nitrogen (TKN) [mg/l]	7.28	APHA 2017 : 4500-Norg B

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
14	Arsenic [mg/l]	BDL(<0.001)	APHA :2017 :3114 B
15	Cadmium [mg/l]	BDL(<0.001)	APHA :2017 :3111- B
16	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
17	Iron [mg/l]	0.04)	APHA :2017 :3111- B
18	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
19	Manganese [mg/l]	0.01	APHA :2017 :3111- B
20	Mercury [mg/l]	BDL(<0.001)	APHA 2017 : 3112 B
21	Nickel [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
22	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3114 B
23	Zinc [mg/l]	0.06	APHA :2017 :3111- B
24	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B
25	color [Hazen]	less than 5.0	APHA : 2017
26	Phenolic compounds [mg/l]	BDL(<0.001)	APHA 2017 : 5530 C
27	Total Residual Chlorine [mg/l]	0.1	APHA:2017 : 4500-CI B
28	Free ammonia as N [mg/l]	BDL(<0.1)	APHA 2017 : 4500-NH3 C
29	Total Chromium[mg/l]	BDL(<0.01)	APHA :2017 :3111- B

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,25,26,28,29,30 covered under NABL scope and Parameter No. 24,27 does not cover under NABL scope
- # Parameter No. NONE outsourced for testing.
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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519200001234P)



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Ph.: 94602-22039, 94602-22049
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TEST REPORT

Report No./ULR No. :	TC502519200001237P	Date :	25-10-2019
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 :	Wastewater Sample	Date of Sample Collection/Monitoring :	07-09-2019
Point of Collection :	Tailing Filter Press Water	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 18-09-2019	Point of Collection :	Tailing Filter Press Water
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	Total Dissolved Solids [mg/l]	1163	APHA 2017 : 2540 C
2	Total Suspended Solids [mg/l]	16	APHA.2017:2540-D
3	Ammonical Nitrogen as N [mg/l]	6.67	APHA 2017 : 4500-NH3 C
4	Biochemical Oxygen Demand (BOD) [mg/l]	10	APHA 2017:5210-B
5	Chemical Oxygen Demand (COD) [mg/l]	34.94	APHA:2017 : 5220-C
6	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D
7	Dissolved Oxygen [mg/l]	5.6	APHA 2017 : 4500- O C
8	Fluoride [mg/l]	0.47	APHA:2017 : 4500-F-C
9	Nitrate Nitrogen as NO3-N [mg/l]	43.92	APHA 2017 : 4500-NO3- B
10	pH	8.92	APHA:2017 : 4500 H+B
11	Phosphate (total) as P [mg/l]	0.34	APHA 2017 : 4500-P C
12	Sulphide as S [mg/l]	BDL(<0.1)	APHA. 2017 : 4500-S2-F
13	Total Kjeldahl Nitrogen (TKN) [mg/l]	17.3	APHA 2017 : 4500-Norg B

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TestingProtocol@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
14	Arsenic [mg/l]	BDL(<0.001)	APHA :2017 :3114 B
15	Cadmium [mg/l]	BDL(<0.001)	APHA :2017 :3111- B
16	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
17	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
18	Iron [mg/l]	0.05	APHA :2017 :3111- B
19	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
20	Manganese [mg/l]	0.03	APHA :2017 :3111- B
21	Mercury [mg/l]	BDL(<0.001)	APHA 2017 : 3112 B
22	Nickel [mg/l]	0.03	APHA :2017 :3111- B
23	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3114 B
24	Zinc [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
25	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B
26	color [Hazen]	less than 5.0	APHA : 2017
27	Phenolic compounds [mg/l]	BDL(<0.001)	APHA 2017 : 5530 C
28	Total Residual Chlorine [mg/l]	0.2	APHA:2017 : 4500-CI B
29	Free ammonia as N [mg/l]	BDL(<0.1)	APHA 2017 : 4500-NH3 C

Notes :-

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

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519200001237P)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502519200001235P	Date :	18-09-2019
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 :	Wastewater Sample	Date of Sample Collection/Monitoring :	07-09-2019
Point of Collection :	STP Incoming (74°32'38"N 25°19'35"E)	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 18-09-2019	Sampling Plan :	APHA 2017 : 1060
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	Total Dissolved Solids [mg/l]	1562	APHA :2540 C :2017
2	Total Suspended Solids [mg/l]	26	APHA:2017:2540-D
3	Ammonical Nitrogen as N [mg/l]	9.6	APHA 2017 : 4500-NH3 C
4	Biochemical Oxygen Demand (BOD) [mg/l]	14.8	APHA 2017:5210-B
5	Chemical Oxygen Demand (COD) [mg/l]	52.42	APHA:2017 : 5220-C
6	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D
7	Dissolved Oxygen [mg/l]	4.8	APHA 2017 : 4500- O C
8	Fluoride [mg/l]	1.25	APHA:2017 : 4500-F-C
9	Nitrate Nitrogen as NO3-N [mg/l]	8.55	APHA 2017 : 4500-NO3- B
10	pH	8.16	APHA:2017 : 4500 H+B
11	Phosphate (total) as P [mg/l]	1.26	APHA 2017 : 4500-P C
12	Sulphide [mg/l]	BDL(<0.1)	APHA:2017 : 4500-SO4-E
13	Total Kjeldahl Nitrogen (TKN) [mg/l]	23.6	APHA 2017 : 4500-Norg B

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E-mail : director@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
14	Arsenic [mg/l]	BDL(<0.001)	APHA :2017 :3114 B
15	Cadmium [mg/l]	BDL(<0.001)	APHA :2017 :3111- B
16	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
17	Iron [mg/l]	0.05	APHA :2017 :3111- B
18	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
19	Manganese [mg/l]	0.01	APHA :2017 :3111- B
20	Mercury [mg/l]	BDL(<0.001)	APHA 2017 : 3112 B
21	Nickel [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
22	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3114 B
23	Zinc [mg/l]	0.04	APHA :2017 :3111- B
24	Oil & Grease [mg/l]	5	APHA 2017 : 5520 B
25	color [Hazen]	less than 5.0	APHA : 2017
26	Phenolic compounds [mg/l]	BDL(<0.001)	APHA 2017 : 5530 C
27	Total Residual Chlorine [mg/l]	0.2	APHA:2017 : 4500-CI B
28	Free ammonia as N [mg/l]	BDL(<0.1)	APHA 2017 : 4500-NH3 C
29	Total Chromium[mg/l]	BDL(<0.01)	APHA :2017 :3111- B

Notes :-

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


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519200001235P)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502519200001236P	Date :	18-09-2019
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 :	Wastewater Sample	Date of Sample Collection/Monitoring :	07-09-2019
Point of Collection :	Sitation Pond	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 18-09-2019	Sampling Plan :	APHA 2017 : 1060
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	Total Dissolved Solids [mg/l]	896	APHA 2017 : 2540 C
2	Total Suspended Solids [mg/l]	14	APHA.2017:2540-D
3	Ammonical Nitrogen as N [mg/l]	1.96	APHA 2017 : 4500-NH3 C
4	Biochemical Oxygen Demand (BOD) [mg/l]	12	APHA 2017:5210-B
5	Chemical Oxygen Demand (COD) [mg/l]	46.59	APHA:2017 : 5220-C
6	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D
7	Dissolved Oxygen [mg/l]	5.2	APHA 2017 : 4500- O C
8	Fluoride [mg/l]	0.42	APHA:2017 : 4500-F-C
9	Nitrate Nitrogen as NO3-N [mg/l]	4.55	APHA 2017 : 4500-NO3- B
10	pH	7.68	APHA:2017 : 4500 H+B
11	Phosphate (total) as P [mg/l]	BDL(<0.1)	APHA 2017 : 4500-P C
12	Sulphide as S [mg/l]	BDL(<0.1)	APHA. 2017 : 4500-S2-F
13	Total Kjeldahl Nitrogen (TKN) [mg/l]	3.92	APHA 2017 : 4500-Norg B

Note:

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director@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
14	Arsenic [mg/l]	BDL(<0.001)	APHA :2017 :3114 B
15	Cadmium [mg/l]	BDL(<0.001)	APHA :2017 :3111- B
16	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
17	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
18	Iron [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
19	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
20	Manganese [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
21	Mercury [mg/l]	BDL(<0.001)	APHA 2017 : 3112 B
22	Nickel [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
23	Selenium [mg/l]	BDL(<0.01)	APHA :2017 :3114 B
24	Zinc [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
25	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B
26	color [Hazen]	less than 5.0	APHA : 2017
27	Phenolic compounds [mg/l]	BDL(<0.001)	APHA 2017 : 5530 C
28	Total Residual Chlorine [mg/l]	0.2	APHA:2017 : 4500-CI B
29	Free ammonia as N [mg/l]	BDL(<0.1)	APHA 2017 : 4500-NH3 C

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,24,25,27,28,29 covered under NABL scope and Parameter No. 23,26 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.


Purni Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502519200001236P)



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TEST REPORT

Report No./JLR No. :	TC502519100001553P	Date :	11-10-2019
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 :	10-09-2019
Point of Collection :	Meja Dam [74°32'19" N 75°23'31"E]	Date of Receipt :	13-09-2019
Date of Test/Analysis :	13-09-2019 to 23-09-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Parsa Ram Kudl
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]	21	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.57	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	52	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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RESULTS

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Requirement (Acceptable Limit) as per IS 10500 : 2012
Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012

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]	110	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	16	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	2.92	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]	13.44	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	28.53	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.54	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]	60	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]	0.31	IS 13428 (Annexure H)	0.5	1.0
24	Suspended Solids [mg/l]	13	IS 3025 (Part 17) : 1984 RA 2017	-	-
25	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0

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
27	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
28	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
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	0.01	-
31	Calcium Hardness [mg/l]	40	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	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014	0.02	-
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	0.002

Notes :-

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

Rajesh
Rajesh Maheshwar
Authorized Signatory
(Report No: TC502519100001553P)



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Report No./ULR No. :	TC502519100001553P	Date :	11-10-2019
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 :	10-09-2019
Point of Collection	Meja Dam [74°32'19"N 25°23'31"E]	Date of Receipt :	13-09-2019
Date of Test/Analysis :	15-06-2019 to 25-06-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Parsaram 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.	Total Coliform [MPN/100ml]	BDL	IS 5401 Part-1: 2012	Shall not be detectable in 100 ml sample	-
2.	E. Coli [MPN/100ml]	BDL	IS 5887 Part-1: 1976 RA 2013	Shall not be detectable in 100 ml sample	-
3	Selenium [mg/l]	BDL(0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502519100001553P)



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TEST REPORT

Report No./ULR No. :	TC502519100001524P	Date :	11-10-2019
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 :	07-09-2019
Point of Collection :	Samodi Pond (74°32'50"N,25°20'43"E)	Date of Receipt :	09-09-2019
Date of Test/Analysis :	09-09-2019 to 23-09-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Parse 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	7.67	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	80	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]	17.61	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00

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Director@teamtesthouse.com

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]	166	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	20.8	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	6.8	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]	30.88	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	29.39	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.46	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]	64	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]	0.35	IS 13428 (Annexure H)	0.5	1.0
24	Suspended Solids [mg/l]	7	IS 3025 (Part 17) : 1984 RA 2017	-	-
25	Total Chromium [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0

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
27	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
28	Polynuclear aromatic Hydrocarbon [mg/l]	BDL (<0.0001)	APHA 2017 : 6440 B	0.0001	-
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]	52	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	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2014	0.02	-
35	Phenolic Compound [mg/l]	BDL (<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-

Notes :-

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


Rajesh Maneshwan
 Authorized Signatory
 (Report No: TC502519100001524P)



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Report No./ULR No. :	TC502519100001524P	Date :	11-10-2019
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 :	07-09-2019
Point of Collection	Samodi Pond [74°32'50"N 25°20'43"E]	Date of Receipt :	09-09-2019
Date of Test/Analysis :	15-06-2019 to 25-06-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Parsaram 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.	Total Coliform [MPN/100ml]	BDL	IS 5401 Part-1: 2012	Shall not be detectable in 100 ml sample	-
2.	E Coli [MPN/100ml]	BDL	IS 5887 Part-1: 1976 RA 2013	Shall not be detectable in 100 ml sample	-
3	Selenium [mg/l]	BDL(0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-

Notes :-

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Puran Mal Yogi

Senior Analyst


Rajesh Maheshwar

Authorized Signatory

(Report No: TC502519100001524P)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502519100001552P	Date :	11-10-2019
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Arajil 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 :	10-09-2019
Point of Collection :	Kothari River [74°33'17" N 25°23'46"E]	Date of Receipt :	13-09-2019
Date of Test/Analysis :	13-09-2019 to 23-09-2019	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	8.21	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	248	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]	92.64	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]	437	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	65.6	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	20.41	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]	70.12	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	31.55	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.93	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]	168	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]	0.30	IS 13428 (Annexure H)	0.5	1.0
24	Suspended Solids [mg/l]	15	IS 3025 (Part 17) : 1984 RA 2017	-	-
25	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-
26	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-

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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	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
28	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
29	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
30	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
31	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
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

Notes :-

- # Parameter No. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,29,30,31,33 covered under NABL scope and Parameter No. 28,32 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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Purah
Purah Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502519100001552P)



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Report No./ULR No.:	TC502519100001552P	Date :	11-10-2019
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 :	10-09-2019
Point of Collection	Kothari River [74°33'17"N 25°23'46"E]	Date of Receipt :	13-09-2019
Date of Test/Analysis :	15-06-2019 to 25-06-2019	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Parsaram 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	Total Coliform [MPN/100ml]	BDL	IS 5401 Part-1: 2012	Shall not be detectable in 100 ml sample	-
2	E Coli [MPN/100ml]	BDL	IS 5887 Part-1: 1976 RA 2013	Shall not be detectable in 100 ml sample	-
3	Selenium [mg/l]	BDL(0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-

Notes :-

- # 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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Purni Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory

(Report No: TC502519100001552P)



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TEST REPORT

Report No./ULR No. :	TC502519100001543P	Date :	27-09-2019
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 :	10-09-2019
Point of Collection :	Tiranga Pit	Date of Receipt :	11-09-2019
Date of Test/Analysis :	11-09-2019 to 26-09-2019	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	7.08	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	510	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]	128.12	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	1088	IS 3025 (Part 16) : 1984 RA 2017

Note:

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RESULTS

S. No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	124	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	48.6	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]	BDL (<0.01)	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	166.45	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	42.86	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	1.21	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]	84	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	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
26	Suspended Solids [mg/l]	13	IS 3025 (part 15) : 1984 RA 2014
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

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RESULTS

S. No	Parameters	Observed Value	Testing Protocol
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
33	Calcium Hardness [mg/l]	310	IS 3025 (Part 40) : 1991 RA 2014
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
35	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014
36	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014
37	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B
38	Pesticides [mg/l]	Not Detected	APHA 2017

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Purnan Mal Yogi

Senior Analyst


Rajesh Maheshwar
Authorized Signatory

(Report No: TC502519100001543)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502519100001545P	Date :	11-10-2019
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 :	10-09-2019
Point of Collection :	Suras Pit	Date of Receipt :	11-09-2019
Date of Test/Analysis :	11-09-2019 to 26-09-2019	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	7.15	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	530	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]	83.77	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	1103	IS 3025 (Part 16) : 1984 RA 2017

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RESULTS

S.No	Parameters	Observed Value	Testing Procedure
10	Calcium [mg/l]	124	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	53.46	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]	BDL (<0.01)	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	146.58	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	32.37	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	0.39	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]	190	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]	0.32	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
26	Suspended Solids [mg/l]	16	IS 3025 (part 15) : 1984 RA 2014
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
33	Calcium Hardness [mg/l]	310	IS 3025 (Part 40) : 1991 RA 2014
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
35	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014
36	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014
37	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B
38	Pesticides [mg/l]	Not Detected	APHA 2017

Notes :-

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Puran Mal Yogi

Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502519100001545)



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TEST REPORT

Report No./ULR No. :	TC502519100001544P	Date :	11-10-2019
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 :	10-09-2019
Point of Collection :	Dhulkhera Pit	Date of Receipt :	11-09-2019
Date of Test/Analysis :	11-09-2019 to 26-09-2019	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	7.24	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	480	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]	124.17	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	1095	IS 3025 (Part 16) : 1984 RA 2017

Note:

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Raj



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

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JDA/UDH

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Ph.: 94602-22039, 94602-22049

E-mail : teamtesthouse@gmail.com

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	104	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	53.46	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]	BDL (<0.01)	IS 3025 (Part 59) : 2006 RA 2017
14	Sulphate [mg/l]	124.41	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	35.22	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	0.98	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]	116	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]	0.35	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1) : 1976 RA 2013
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2012
26	Suspended Solids [mg/l]	18	IS 3025 (part 15) : 1984 RA 2014
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

Note:

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RESULTS

S. No.	Parameters	Observed Value	Testing Protocol
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014
33	Calcium Hardness [mg/l]	260	IS 3025 (Part 40) : 1991 RA 2014
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
35	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014
36	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014
37	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B
38	Pesticides [mg/l]	Not Detected	APHA 2017

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 Mal Yogi

Senior Analyst


Rajesh Maheshwari
Authorized Signatory

(Report No: TC502519100001544)



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TEST REPORT

Report No

TC502519600001693

Date

18/09/2019

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

06/09/2019 to 08/09/2019

Date of Sample Receipt

09/09/2019

Date of Test

09/09/2019

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	53.2	41.5
2.	Samodi Village [74°32'57"N 25°20'56"E]	Rural Area	52.7	42.2
3.	Suras Village [74°33'40"N 25°23'16"E]	Rural Area	51.4	38.2
4.	Gandhi Sagar park, Bhilwara [74°38'56"N 25°20'11"E]	Rural Area	53.6	42.5
5.	Kanoli Village[74°36'10"N 25°16'12"E]	Rural Area	51.4	40.2
6.	Dhulkhera Village[74°35'17"N 25°24'03"E]	Rural Area	51.7	40.7
7.	Dariba Village [74°31'45"N 25°20'35"E]	Rural Area	51.0	41.9

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: -

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Purnan Maurya
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No.: - TC502519600001693)



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TEST REPORT

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Report No. TC502519600001700
Date 18/09/2019
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 07/09/2019 to 09/09/2019
Date of Sample Receipt 10/09/2019
Date of Test 10/09/2019
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]	67.5	58.3
2.	Dhulkhera Pit 10.0 m of loading Point [74°34'30"N 25°23'41"E]	64.9	58.4
3	Suras Pit 10.0 m of loading Point [74°34'04"N 25°23'28"E]	68.7	60.8
4	Tiranga Pit 10.0 m of loading Point [74°32'10"N 25°19'27"E]	67.3	59.4
5	Filter Press Building [74°32'20"N 25°19'07"E]	68.2	59.8
6	CCR- Crusher Plant [74°32'06"N 25°19'06"E]	63.9	55.6
7	Tata Blue Scope Shed [74°32'06"N 25°19'03"E]	67.4	60.2
8	CCR –BFN Plant [74°32'14"N 25°19'04"E]	71.0	61.4

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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Puran Mal Yogi
Senior Analyst


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