



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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JDA/UDH

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TEST REPORT

Report No. : A/1735
Job Identification. : ULR-TC50251840000020
Date : 05-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 09-09-2018
Date of Sample Receipt : 15-09-2018
Date of Test : 15-09-2018 to 05-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Pur Village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL (<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	250	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.07	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.35	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL(<20)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	155.04	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	24.15	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	6.57	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	62.9	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]	4.7	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes >

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Pur Village

Rajesh Maheshwari



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TEST REPORT

Report No. : A/1734
Job Identification. : ULR-TC502518400000019
Date : 05-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 07-09-2018
Date of Sample Receipt : 15-09-2018
Date of Test : 15-09-2018 to 05-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dariba Village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	9.3	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	380	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	17.06	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	180.38	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	24.54	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	4.91	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	74.51	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]	7.7	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran Mal Yogi

Rajesh Maheshwan



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TEST REPORT

Report No. : A/1736
Job Identification. : ULR-TC502518400000021
Date : 05-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajli No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 09-09-2018
Date of Sample Receipt : 15-09-2018
Date of Test : 15-09-2018 to 05-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Kanoli Village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	140	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.05	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	11.84	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	150.3	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	22.41	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	6.48	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	45.22	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]	2.1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Mal Yogi

Rajesh Maheshwar



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TEST REPORT

Report No. : A/1738
Job Identification. : ULR-TC502518400000023
Date : 05-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 09-09-2018
Date of Sample Receipt : 15-09-2018
Date of Test : 15-09-2018 to 05-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Gandhisagar village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	11.8	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	290	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.16	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.52	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL(<20)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	216.46	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	32.74	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	7.39	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	63.24	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]	1.6	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Puran Malhotra

Rajesh Bhatnagar



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TEST REPORT

Report No. : A/1737
 Job Identification. : ULR-TC50251840000022
 Date : 05-10-2018
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
 District-Bhilwara 311802 (Rajasthan)
 Type of Unit : Mines
 Type of Sample : Ambient Air Quality Monitoring
 Date of Sample Collection/Monitoring : 06-09-2018
 Date of Sample Receipt : 15-09-2018
 Date of Test : 15-09-2018 to 05-10-2018
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : PMS Building

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	12.3	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	350	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.22	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	16.87	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	238.57	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	37.3	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	8.1	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	77.98	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]	6.9	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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Purnan Mal Yogi

Rajesh Maheshwan



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TEST REPORT

Report No. : A/1739
Job Identification : ULR-TC502518400000024
Date : 05-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 06-09-2018
Date of Sample Receipt : 15-09-2018
Date of Test : 15-09-2018 to 05-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Mines Workshop

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	11.6	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m ³]	360	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m ³]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	15.19	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL(<20)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	178.13	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	30.64	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	7.33	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	69.32	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]	5.8	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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TEST REPORT

Report No. : A/1745
 Job Identification. : ULR-TC502518400000044
 Date : 05-10-2018
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
 Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
 District-Bhilwara 311802 (Rajasthan)
 Type of Unit : Mines
 Type of Sample : Ambient Air Quality Monitoring
 Date of Sample Collection/Monitoring : 06-09-2018
 Date of Sample Receipt : 15-09-2018
 Date of Test : 15-09-2018 to 05-10-2018
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Near Tiranga Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	13.6	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	360	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.48	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	239.01	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	30.1	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	4.28	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	81.92	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(<0.1)	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	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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TEST REPORT

Report No. :	A/1733
Job Identification. :	ULR-TC502518400000018
Date :	05-10-2018
Issued To :	M/S Jindal Saw Limited (Dhedwas Mines) Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No. 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara District-Bhilwara 311802 (Rajasthan)
Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring :	08-09-2018
Date of Sample Receipt :	15-09-2018
Date of Test :	15-09-2018 to 30-09-2018
Sample Collected By :	Parsa Ram Kudi
Point of Collection :	Samodi village

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<2.0)	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	260	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	11.84	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	156.9	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	24.44	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	4.62	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	64.4	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]	Less than 1	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

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TEST REPORT

Report No. : A/1741
Job Identification : ULR-TC502518400000036
Date : 08-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hillis Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Ambient Air Quality Monitoring
Date of Sample Collection/Monitoring : 09-09-2018
Date of Sample Receipt : 15-09-2018
Date of Test : 15-09-2018 to 05-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near Dhulkhera Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL (<2.0)	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]	15.6	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m ³]	BDL(<20)	APHA 1977, Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	236	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	24.15	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m ³]	7.55	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	65.36	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]	2.6	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes -

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Puran Mal Yoni

Rajesh Maheshwan



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TEST REPORT

Report No. : A/1732
 Job Identification. : ULR-TC502518400000017
 Date : 05-10-2018
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
 District-Bhilwara 311802 (Rajasthan)
 Type of Unit : Mines
 Type of Sample : Ambient Air Quality Monitoring
 Date of Sample Collection/Monitoring : 07-09-2018
 Date of Sample Receipt : 15-09-2018
 Date of Test : 16-09-2018 to 30-09-2018
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Suras Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	7.6	CPCB Guidelines	400.00
2	Carbon Monoxide [microgram/m3]	340	IS 5182 (Part 10) : 1999	4000
3	Lead [microgram/m3]	0.29	IS 5182 (Part 22) : 2004 Reaffirmed 2014	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.39	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
5	Ozone [microgram/m3]	BDL(<20)	APHA 1977,Part 819	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	192.02	IS 5182 (Part 4) : 1999 Reaffirmed 2014	-
7	Particulate Matter (PM2.5) [microgram/m3]	26.64	CPCB Guidelines	60.00
8	Sulphur Dioxide [microgram/m3]	7.43	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
9	Particulate Matter (PM 10) [microgram/m3]	62.39	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]	1.4	IS 5182 (Part 22) : 2004 Reaffirmed 2014	20.00

Notes :-

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Puran Malviya

Rajesh Manishwan



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TEST REPORT

Report No: A/1766
Date: 05-10-2018
Issued to: M/s. Jindal Saw Limited (dhedwas mines)
Dhedwas Iron Ore Copper & Associate Minerals mines
Araji No.9697/6711, Near Tiranga Hills, Village -Pur,
District Bhilwara 311802 (Rajasthan)
mines
Type of Unit: Ambient Air Quality Monitoring
Type of Monitoring: Ambient Air Quality Monitoring
Date of Sample Collection/ Monitoring: 27/09/2018
Date of Receipt: 29/09/2018
Date of Test: 29/09/2018 to 05/10/2018
Sample Collected By: Parsaram Kudi
Point of Collection: Near Tiranga Pit

RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Carbon Monoxide [microgram/m ³]	370	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m ³]	18.4	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m ³]	384	IS 5182 (Part 4) : 1999 Reaffirmed 2012	-
4.	Particulate Matter (PM2.5) [microgram/m ³]	33.54	CPCB Guidelines	60.00
5.	Sulphur Dioxide [microgram/m ³]	8.47	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6.	Particulate Matter (PM10) [microgram/m ³]	78.49	IS 5182 (Part 23) Reaffirmed 2012	100.00

Notes: -

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Puran Mahto
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No A/1766)



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TEST REPORT

Report No: A/1764
Date: 05-10-2018
Issued to: M/s. Jindal Saw Limited (dhedwas mines)
Dhedwas Iron Ore Copper & Associate Minerals mines
Araji No.9697/6711, Near Tirnga Hills, Village -Pur,
District Bhilwara 311802 (Rajasthan)
Type of Unit: mines
Type of Monitoring: Ambient Air Quality Monitoring
Date of Sample Collection/ Monitoring: 26/09/2018
Date of Receipt: 29/09/2018
Date of Test: 29/09/2018 to 05/10/2018
Sample Collected By: Parsaram Kudi
Point of Collection: Samodi Village

RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Carbon Monoxide [microgram/m ³]	180	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m ³]	12.3	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m ³]	167	IS 5182 (Part 4) : 1999 Reaffirmed 2012	-
4.	Particulate Matter (PM2.5) [microgram/m ³]	25.26	CPCB Guidelines	60.00
5.	Sulphur Dioxide [microgram/m ³]	6.52	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6.	Particulate Matter (PM10) [microgram/m ³]	57.46	IS 5182 (Part 23) Reaffirmed 2012	100.00

Notes: -

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Purnan Mal Yogi
Senior Analyst


Rajesh Malleshwari
Authorized Signatory
(Report No A/1764)



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TEST REPORT

Report No: A/1765
Date: 05-10-2018
Issued to: M/s. Jindal Saw Limited (dhedwas mines)
Dhedwas Iron Ore Copper & Associate Minerals mines
Araji No.9697/6711, Near Tirnga Hills, Village -Pur,
District Bhilwara 311802 (Rajasthan)
mines
Type of Unit: Ambient Air Quality Monitoring
Type of Monitoring: 26/09/2018
Date of Sample Collection/ Monitoring: 29/09/2018
Date of Receipt: 29/09/2018 to 05/10/2018
Date of Test: Parsaram Kudi
Sample Collected By: Near Suras Pit
Point of Collection: RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Carbon Monoxide [microgram/m ³]	330	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m ³]	14.6	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m ³]	245	IS 5182 (Part 4) : 1999 Reaffirmed 2012	-
4.	Particulate Matter (PM2.5) [microgram/m ³]	29.80	CPCB Guidelines	60.00
5.	Sulphur Dioxide [microgram/m ³]	7.48	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6.	Particulate Matter (PM10) [microgram/m ³]	71.28	IS 5182 (Part 23) Reaffirmed 2012	100.00

Notes: -

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
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TEST REPORT

Report No: A/1746
Date: 05-10-/2018
Issued to: M/s. Jindal Saw Limited (dhedwas mines)
Dhedwas Iron Ore Copper & Associate Minerals mines
Araji No.9697/6711, Near Tirnga Hills, Village -Pur,
District Bhilwara 311802 (Rajasthan)

Type of Unit: mines
Type of Monitoring: Ambient Air Quality Monitoring
Date of Sample Collection/ Monitoring: 26/09/2018
Date of Receipt: 29/09/2018
Date of Test: 29/09/2018 to 05/10/2018
Sample Collected By: Parsaram Kudi
Point of Collection: Near Dhukhera Pit

RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1.	Carbon Monoxide [microgram/m ³]	360	IS 5182 (Part 10) : 1999	4000
2.	Nitrogen Dioxide [microgram/m ³]	16.71	IS 5182 (Part 6) : 2006 Reaffirmed 2012	80.00
3.	Suspended Particulate Matter (SPM) [microgram/m ³]	242	IS 5182 (Part 4) : 1999 Reaffirmed 2012	-
4.	Particulate Matter (PM2.5) [microgram/m ³]	30.25	CPCB Guidelines	60.00
5.	Sulphur Dioxide [microgram/m ³]	7.40	IS 5182 (Part 2) : 2001 Reaffirmed 2012	80.00
6.	Particulate Matter (PM10) [microgram/m ³]	72.34	IS 5182 (Part 23) Reaffirmed 2012	100.00

Notes: -

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Rajesh Maheshwari
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TEST REPORT

Report No. : A/1740
Job Identification : ULR-TC502518400000025
Date : 05-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Fugitive Emission Quality Monitoring
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 19-09-2018
Date of Test : 19-09-2018 to 05-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Near Raw Material Storage

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m ³]	350.5	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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(Report No: A/1740)



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TEST REPORT

Report No. : A/1741
Job Identification.: ULR-TC502518400000026
Date : 05-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Fugitive Emission Quality Monitoring
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 19-09-2018
Date of Test : 19-09-2018 to 05-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Haul Road - Mining Area

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m ³]	479.49	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Senior Analyst


Rajesh Maheshwar
Authorized Signatory
(Report No: A/1741)



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TEST REPORT

Report No. : A/1742
Job Identification. : ULR-TC502518400000027
Date : 05-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Fugitive Emission Quality Monitoring
Date of Sample Collection/Monitoring : 13-09-2018
Date of Sample Receipt : 19-09-2018
Date of Test : 19-09-2018 to 05-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Crusher Unit Near Centre Workshop

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m ³]	417.19	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Rajesh Maheshwari
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(Report No: A/1742)



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TEST REPORT

Report No. : A/1743
Job Identification. : ULR-TC50251840000028
Date : 05-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Fugitive Emission Quality Monitoring
Date of Sample Collection/Monitoring : 13-09-2018
Date of Sample Receipt : 19-09-2018
Date of Test : 19-09-2018 to 05-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Screening Area -Crusher

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	304.36	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes :-

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Puran Maheshwari
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
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TEST REPORT

Report No. : A/1744
Job Identification. : ULR-TC502518400000029
Date : 05-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Fugitive Emission Quality Monitoring
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 19-09-2018
Date of Test : 19-09-2018 to 05-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Waste Dump Storage

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m ³]	366.47	IS 5182 (Part 4) : 1999 Reaffirmed 2014

Notes >

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Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: A/1744)



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TEST REPORT

Report No. : ST/750
Job Identification : ULR-TC502518500000002
Date : 05-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Stack Emission Level
Date of Sample Collection/Monitoring : 13-09-2018
Date of Sample Receipt : 19-09-2018
Date of Test : 19-09-2018 to 05-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : DG Set 1010 KVA

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	29.85	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]	295	IS 11255 (Part 7):1985 Redffirmed 2012	710 ppmv
4	Carbon monoxide [mg/Nm ³]	65	IS 5182 (Part 10): 1999	150
5	Hydrocarbon [mg/Nm ³]	32	IS 5182 (Part 10): 1999	100

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Purna Mal Yadav
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: ST/750)

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TEST REPORT

Report No. : W/NABL/1168
Job Identification. : ULR-TC502518100000026
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 09-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No. 1

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	7.51	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]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	168.46	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1233	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]	132	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	65.61	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]	168.43	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	14.26	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.82	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]	290	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	-
23	Boron [mg/l]	0.32	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	Suspended Solids [mg/l]	15	IS 3025 (part 15) : 1984 RA 2014	-	-
27	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
28	Free Residual Chlorine [mg/l]	BDL(<0.01)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
34	Calcium Hardness [mg/l]	330	IS 3025 (Part 40) : 1991 RA 2014	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1168)



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TEST REPORT

Report No. : W/1168
Job Identification. : ULR-TC502518100000026
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 09-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No. 1

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/1168)



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TEST REPORT

Report No. : W/NABL/1169
Job Identification. : ULR-TC502518100000027
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 12-08-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No. 2 (Plant Gate No.6)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	6.92	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	510	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	215.36	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1335	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]	128	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	46.17	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]	172.86	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	36.85	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	1.26	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]	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]	0.37	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	Suspended Solids [mg/l]	13	IS 3025 (part 15) : 1984 RA 2014	-	-
27	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
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	320	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014	0.02	-

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Puran Mal Yoda
Puran Mal Yoda
Senior Analyst

Rajesh Maneshwar
Rajesh Maneshwar
Authorized Signatory
(Report No: W/NABL/1169)



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TEST REPORT

Report No. : W/1169
Job Identification. : ULR-TC502518100000027
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No. 2 (Plant Gate No.6)

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Puran 
Senior Analyst

Rajesh 
Authorized Signatory
(Report No: W/1169)



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TEST REPORT

Report No. : WNABL/1170
Job Identification. : ULR-TC502518100000028
Date : 13-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No. 3 (Suras Mine)

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]	230	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]	143.57	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	806	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]	52	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	24.3	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]	81.43	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	4.26	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.23	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]	150	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]	0.42	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	Suspended Solids [mg/l]	10	IS 3025 (part 15) : 1984 RA 2014	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA : 2017 :3111- B	0.05	-

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
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	230	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014	0.02	-

Notes :-

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Puran Malhotra
Puran Malhotra
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1170)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/1170
Job Identification. : ULR-TC502518100000028
Date : 13-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No. 3 (SurasMine)

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Parsa Ram Kudi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/1170)



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TEST REPORT

Report No. : W/NABL/1171
Job Identification : ULR-TC502518100000029
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 09-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No.4 (Suras Mine)

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	8.02	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	96	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]	55.51	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	518	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]	9.6	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	17.5	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]	91.43	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	3.16	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	1.08	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]	224	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	-
23	Boron [mg/l]	0.39	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	Suspended Solids [mg/l]	12	IS 3025 (part 15) : 1984 RA 2014	-	-
27	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
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
34	Calcium Hardness [mg/l]	24	IS 3025 (Part 40) : 1991 RA 2014	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
36	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014	0.02	-

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Purnima
Senior Analyst


Rajesh Maneshwan
Authorized Signatory
(Report No: W/NABL/1171)



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TEST REPORT

Report No. : W/1171
Job Identification. : ULR-TC50251810000029
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 09-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No.4 (Suras Mine)

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Puroyo
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: W/1171)



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TEST REPORT

Report No. : W/NABL/1172
Job Identification. : ULR-TC502518100000030
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No.5

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]	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]	234.5	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1688	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]	132	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	80.19	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]	242.86	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	1.23	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.87	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]	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]	0.36	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	Suspended Solids [mg/l]	14	IS 3025 (part 15) : 1984 RA 2014	-	-
27	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
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
34	Calcium Hardness [mg/l]	330	IS 3025 (Part 40) : 1991 RA 2014	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
36	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014	0.02	-

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/1172)



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TEST REPORT

Report No. : W/1172
Job Identification : ULR-TC502518100000030
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No.5

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Purnima Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
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TEST REPORT

Report No. : W/NABL/1173
Job Identification : ULR-TC502518100000031
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No.6 (Dhulkhera Mine)

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983 RA 2017	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	6.98	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	570	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]	325.43	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1595	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]	128	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	36.45	IS 3025 (Part 46) : 1994 RA 2014	30.00	100.00
12	Copper [mg/l]	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]	271.43	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	27.10	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.96	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]	410	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	-
23	Boron [mg/l]	0.37	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	Suspended Solids [mg/l]	12	IS 3025 (part 15) : 1984 RA 2014	-	-
27	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
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
34	Calcium Hardness [mg/l]	320	IS 3025 (Part 40) : 1991 RA 2014	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
36	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014	0.02	-

Notes :-

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Puran Mal Yadav
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1173)



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TEST REPORT

Report No. : W/1173
Job Identification. : ULR-TC502518100000031
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No.6 (Dhulkhera Mine)

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Purna Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/1173)



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TEST REPORT

Report No. : W/NABL/1174
Job Identification. : ULR-TC502518100000032
Date : 13-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No. 7

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	7.84	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	544	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]	47.86	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	820	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]	123.0	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	57.35	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]	127.86	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	5.08	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.75	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]	120	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	Suspended Solids [mg/l]	12	IS 3025 (part 15) : 1984 RA 2014	-	-
27	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
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	308	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014	0.02	-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1174)



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TEST REPORT

Report No.: W/1174
Job Identification: ULR-TC502518100000032
Date: 13-10-2018
Issued To: M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit: Mines
Type of Sample: Potable and Domestic Water
Date of Sample Collection/Monitoring: 12-09-2018
Date of Sample Receipt: 18-09-2018
Date of Test: 18-09-2018 to 10-10-2018
Sample Collected By: Parsa Ram Kudi
Point of Collection: Piezometer Well No. 7

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Purnan Maheshwari
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/1174)



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TEST REPORT

Report No. : W/NABL/1175
Job Identification. : ULR-TC502518100000033
Date : 13-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Piezometer Well No. 8

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]	220	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]	141.66	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	997	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]	44	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	0.3
14	Sulphate [mg/l]	78.57	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	5.01	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]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	150	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]	0.44	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	Suspended Solids [mg/l]	13	IS 3025 (part 15) : 1984 RA 2014	-	-
27	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
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	110	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2014	0.02	-

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

TEST REPORT

Report No.: W/1175
Job Identification.: ULR-TC502518100000033
Date: 13-10-2018
Issued To: M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit: Mines
Type of Sample: Potable and Domestic Water
Date of Sample Collection/Monitoring: 12-09-2018
Date of Sample Receipt: 18-09-2018
Date of Test: 18-09-2018 to 10-10-2018
Sample Collected By: Parsa Ram Kudi
Point of Collection: Piezometer Well No. 8

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :-

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Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: W/1175)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No : W/1270
Date : 15/10/2018
Issued to : M/s Jindal Saw Limited,
Dhedwas Iron Ore Copper & Associated Minerals Mines
Araji No. 9697/6711 Near Tiranga Hills Village: Pur,
Tehsil & District Bhilwara - 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Water Level Measurement
Date of Measurement : 12/09/2018
Date of Test : 12/09/2018
Water Level Measured By : Mr. Parsha Ram Kudi

RESULTS

S.No	Location	Water Level in Meters
1	Peizometer No.1	12.27
2	Peizometer No.2	9.71
3	Peizometer No.3	6.65
4	Peizometer No.4	4.15
5	Peizometer No.5	1.95
6	Peizometer No.6	9.27
7	Peizometer No.7	6.10
8	Peizometer No.8	4.95

Note: -

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Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/1270)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1184
Job Identification. : TC502518100000038
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Surface Water
Date of Sample Collection/Monitoring : 10-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Kothari River

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.97	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	196	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	81.2	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	423	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	59.2	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	11.66	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	38.80	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	16.7	IS 3025 (Part 34) : 1988

Note:

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RESULTS

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

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.67	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	110	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.33	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Suspended Solids [mg/l]	25	IS 3025 (part 15) : 1984
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992
35	Calcium Hardness [mg/l]	148	IS 3025 (Part 40) : 1991
36	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B
37	Pesticides [mg/l]	Not Detected	APHA : 2017
38	Nickel [mg/l]	BDL(<0.01)	APHA : 2017 :3111B

Notes :-

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Puran Mal
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1184)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1185
Job Identification. : C502518100000040
Date : 06-07-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Surface Water
Date of Sample Collection/Monitoring : 10-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Meja Dam

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.40	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	80	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	28.12	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	163	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	20.0	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	6.29	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	13.72	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	7.23	IS 3025 (Part 34) : 1988

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Ph. : 94602-22039, 94602-22049

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.28	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	80	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.30	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Suspended Solids [mg/l]	30	IS 3025 (part 15) : 1984
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992
35	Calcium Hardness [mg/l]	40	IS 3025 (Part 40) : 1991
36	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
37	Pesticides [mg/l]	Not Detected	APHA : 2012
38	Nickel [mg/l]	BDL(<0.01)	APHA : 2012 :3111B

Notes :-

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Mal Yoda
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: W/NABL/1185)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1186
Job Identification. : TC502518100000040
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Surface Water
Date of Sample Collection/Monitoring : 10-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Samodi Pond

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983
2	Odour	Agreeable	IS 3025 (Part 5) : 1983
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984
4	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984
5	pH	7.26	IS 3025 (Part 11) : 1984
6	Hardness (total) [mg/l]	120	IS 3025 (Part 21) : 1983
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003
8	Chloride [mg/l]	26.3	IS 3025 (Part 32) : 1988
9	Total Dissolved Solids [mg/l]	196	IS 3025 (Part 16) : 1984
10	Calcium [mg/l]	28	IS 3025 (Part 40) : 1991
11	Magnesium [mg/l]	12.16	IS 3025 (Part 46) : 1994
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)
14	Sulphate [mg/l]	25.8	IS 3025 (Part 24) : 1986
15	Nitrate [mg/l]	9.38	IS 3025 (Part 34) : 1988

Note:

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Parsi



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RESULTS

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

S.No	Parameters	Observed Value	Testing Protocol
16	Fluoride [mg/l]	0.46	IS 3025 (Part 60)
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994
21	Alkalinity - T [mg/l]	54	IS 3025 (Part 23) : 1986
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003
23	Boron [mg/l]	0.31	IS 13428 (Annexure H)
24	E-coli [MPN/100ml]	Not Detected	IS 5887 (Part 1)
25	Total coliform [MPN/100ml]	Not Detected	IS 5401 (Part 2) : 2002
26	Suspended Solids [mg/l]	28	IS 3025 (part 15) : 1984
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986
33	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)
34	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992
35	Calcium Hardness [mg/l]	70	IS 3025 (Part 40) : 1991
36	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
37	Pesticides [mg/l]	Not Detected	APHA : 2012
38	Nickel [mg/l]	BDL(<0.01)	APHA : 2012 :3111B

Notes :-

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Rajesh
Rajesh Maheshwan
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1186)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1163
Job Identification. : ULR-TC502518100000021
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 11-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Pur Village (Near Balaji Mandir)

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	7.95	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]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	315.86	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1329	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 Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	144	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	48.6	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]	210.71	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	34.16	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	1.23	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]	460	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	-
23	Boron [mg/l]	0.36	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	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984 RA 2014	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

Note:

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(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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RSPCB

ISO 9001:2008

OHSAS 18001:2007

JDA/UDH

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	360	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-

Notes :-

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Purush Mal Yogi
Purush Mal Yogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1163)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/1163
Job Identification. : ULR-TC502518100000021
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 11-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Pur Village (Near Balaji Mandir)

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :

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Puran Mal Vodi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: W/1163)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1167
Job Identification. : ULR-TC50251810000025
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 09-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 09-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dariba Village (Govt. Tubewell Water-Aruvedic Dispansary)

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	7.33	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	530	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	162.72	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	962	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 Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	160	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	43.74	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]	217.14	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	2.36	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.50	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]	0.05	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	410	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	Suspended Solids [mg/l]	7	IS 3025 (part 15) : 1984 RA 2014	-	-
27	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
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	400	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-

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Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: W/NABL/1167)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/1167
Job Identification. : ULR-TC502518100000025
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 09-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 09-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dariba Village (Govt. Tubewell Water-Aruvedic Dispansary)


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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Senior Analyst


Authorized Signatory
(Report No: W/1167)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1166
Job Identification : ULR-TC50251810000024
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 10-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 09-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Kanoli Village (Govt.Handpump water of Govt. Middle school)

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	7.65	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	184	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]	38.29	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	314	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 Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	43.2	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	18.47	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]	25.57	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	5.07	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.57	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]	176	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]	0.38	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	Suspended Solids [mg/l]	10	IS 3025 (part 15) : 1984 RA 2014	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

Note:

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RESULTS

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28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	1.0
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	108	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-

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Puneet Malhotra
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/1166)



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TEST REPORT

Report No. : W/1166
Job Identification. : ULR-TC502518100000024
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 10-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 09-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Kanoli Village (Govt.Handpump water of Govt. Middle school)

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Senior Analyst


Rajesh Maheshwari
Authorized Signatory
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TEST REPORT

Report No. : W/NABL/1165
Job Identification : ULR-TC502518100000023
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 10-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 09-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Gandhi sagar Park Bhilwara

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	7.33	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	292	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	206.74	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1156	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 Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
10	Calcium [mg/l]	49.6	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	40.82	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]	231.43	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	32.34	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.94	IS 3025 (Part 60) : 2008 RA 2013	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2014	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2014	0.01	-
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2014	0.01	-
20	Zinc [mg/l]	0.06	IS 3025 (Part 49) : 1994 RA 2014	5.00	15.00
21	Alkalinity - T [mg/l]	292	IS 3025 (Part 23) : 1986 RA 2014	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003 RA 2014	0.03	0.2
23	Boron [mg/l]	0.37	IS 13428 (Annexure H)	0.5	1.0
24	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	Suspended Solids [mg/l]	9	IS 3025 (part 15) : 1984 RA 2014	-	-
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.05	-

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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
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	124	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-

Notes :-

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Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/1165)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/1165
Job Identification. : ULR-TC502518100000023
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 10-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 09-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Gandhi sagar Park Bhilwara

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes :

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/1165)



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TEST REPORT

Report No. : W/NABL/1164
Job Identification : ULR-TC50251810000022
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 09-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 09-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Samodi Village (Bheel Basti Near Govt. Handpump front Ratan Lal Yadav Plot)

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	7.30	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]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	93.8	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	804	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]	164.8	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	35.96	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]	202.86	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	10.25	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.89	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]	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]	0.39	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	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984 RA 2014	-	-
27	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
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
34	Calcium Hardness [mg/l]	412	IS 3025 (Part 40) : 1991 RA 2014	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00

Notes :-

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1164)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/1164
Job Identification : ULR-TC502518100000022
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 09-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 09-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Samodi Village (Bheel Basti Near Govt. Handpump front Ratan Lal Yadav Plot)

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Purnima Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/1164)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1162
Job Identification. : ULR-TC502518100000020
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 09-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Village (Govt. Handpump Near Palki Rani Ka Mandir)

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	7.30	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	550	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]	201	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1034	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]	136	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]	62.86	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	23.79	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.51	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]	310	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	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	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984 RA 2014	-	-
27	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
28	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	340	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-

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P. Anil Yogi
Senior Analyst


Rajesh Mishra
Authorized Signatory
(Report No: W/NABL/1162)



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TEST REPORT

Report No. : W/1162
Job Identification : ULR-TC502518100000020
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 09-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Village (Govt. Handpump Near Palki Rani Ka Mandir)

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

Notes >

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Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/1162)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1161
Job Identification : ULR-TC502518100000019
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 11-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dhulkhera Village (Near NH 75)

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	7.05	IS 3025 (Part 11) : 1984 RA 2017	6.50 - 8.50	-
6	Hardness (total) [mg/l]	530	IS 3025 (Part 21) : 1983 RA 2014	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014	0.3	-
8	Chloride [mg/l]	162.72	IS 3025 (Part 32) : 1988 RA 2014	250.00	1000.00
9	Total Dissolved Solids [mg/l]	936	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]	140	IS 3025 (Part 40) : 1991 RA 2014	75.00	200.00
11	Magnesium [mg/l]	43.74	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]	82.40	IS 3025 (Part 24) : 1986 RA 2014	200.00	400.00
15	Nitrate [mg/l]	31.26	IS 3025 (Part 34) : 1988 RA 2014	45.00	-
16	Fluoride [mg/l]	0.43	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	-
23	Boron [mg/l]	0.42	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	Suspended Solids [mg/l]	Less than 1	IS 3025 (part 15) : 1984 RA 2014	-	-
27	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
28	Free Residual Chlorine [mg/l]	BDL(<0.01)	IS 3025 (Part 26) : 1986 RA 2014	0.2	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003 RA 2014	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014	0.001	-
31	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991 RA 2014	0.5	-
32	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2014	0.05	-
33	Calcium Hardness [mg/l]	350	IS 3025 (Part 40) : 1991 RA 2014	-	-
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.20	1.00
35	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 RA 2014	0.001	-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1161)



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TEST REPORT

Report No. : W/1161
Job Identification. : ULR-TC502518100000019
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Potable and Domestic Water
Date of Sample Collection/Monitoring : 11-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dhulkhera Village (Near NH 75)

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2017 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2017	-	-

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Purnima Maheshwari
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/1161)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1179
 Job Identification : ULR-TC502518100000034
 Date : 22-10-2018
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
 District-Bhilwara 311802 (Rajasthan)
 Type of Unit : Mines
 Type of Sample : Surface Water
 Date of Sample Collection/Monitoring : 12-09-2018
 Date of Sample Receipt : 18-09-2018
 Date of Test : 18-09-2018 to 10-10-2018
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Tiranga Pit

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	7.31	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]	157.93	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	1322	IS 3025 (Part 16) : 1984 RA 2017
10	Calcium [mg/l]	140	IS 3025 (Part 40) : 1991 RA 2014

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Magnesium [mg/l]	43.74	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]	124.28	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	27.02	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	0.58	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]	100	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]	21	IS 3025 (part 15) : 1984 RA 2014
27	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
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

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
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]	350	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

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Puran Yogi
Puran Yogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: W/NABL/1179)



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TEST REPORT

Report No. : W/1179
ULR-
Job Identification : TC502518100000034
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Surface Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Tiranga Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
2	Pesticides [mg/l]	Not Detected	APHA : 2012
3	Nickel[mg/l]	BDL(<0.01)	IS 3025 part-54:2003

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Purnan Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: W/1179)



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TEST REPORT

Report No. : W/NABL/1180
 Job Identification. : ULR-TC502518100000035
 Date : 22-10-2018
 Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
 Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
 9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
 District-Bhilwara 311802 (Rajasthan)
 Type of Unit : Mines
 Type of Sample : Surface Water
 Date of Sample Collection/Monitoring : 12-09-2018
 Date of Sample Receipt : 18-09-2018
 Date of Test : 18-09-2018 to 10-10-2018
 Sample Collected By : Parsa Ram Kudi
 Point of Collection : Dhulkhera Pit

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	7.91	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	552	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]	45.94	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	616	IS 3025 (Part 16) : 1984 RA 2017

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E-mail : director@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	116.8	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	63.18	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]	87.14	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	14.88	IS 3025 (Part 34) : 1988 RA 2014
16	Fluoride [mg/l]	0.35	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]	120	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]	0.41	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	Total Chromium [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
27	Free Residual Chlorine [mg/l]	BDL(<0.01)	IS 3025 (Part 26) : 1986 RA 2014
28	selenium [mg/l]	BDL(< 0.01)	IS 3025 (Part 56) : 2003 RA 2014
29	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2014

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
30	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992 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]	292	IS 3025 (Part 40) : 1991 RA 2014
34	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/1180)



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

TEST REPORT

Report No. : W/1180
ULR-
Job Identification : TC502518100000035
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araji No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Surface Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Dhulkhera Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
2	Pesticides [mg/l]	Not Detected	APHA : 2012
3	Nickel[mg/l]	BDL(<0.01)	IS 3025 part-54:2003

Notes :-

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


Pawan Mal Yadav
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: W/1180)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No. : W/NABL/1181
Job Identification : ULR-TC502518100000036
Date : 22-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)

Type of Unit : Mines
Type of Sample : Surface Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Pit

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	7.72	IS 3025 (Part 11) : 1984 RA 2017
6	Hardness (total) [mg/l]	540	IS 3025 (Part 21) : 1983 RA 2014
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2014
8	Chloride [mg/l]	90.93	IS 3025 (Part 32) : 1988 RA 2014
9	Total Dissolved Solids [mg/l]	959	IS 3025 (Part 16) : 1984 RA 2017

Note: Continue to next page...

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
10	Calcium [mg/l]	144	IS 3025 (Part 40) : 1991 RA 2014
11	Magnesium [mg/l]	43.74	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]	157.14	IS 3025 (Part 24) : 1986 RA 2014
15	Nitrate [mg/l]	33.71	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]	140	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]	0.39	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
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

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
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]	360	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

Notes >

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: W/NABL/1181)



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TEST REPORT

Report No. : W/1181
ULR-
Job Identification. : TC502518100000036
Date : 10-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9697/6711, Near Tiranga Hills Village : Pur Tehsil Bhilwara
District-Bhilwara 311802 (Rajasthan)
Type of Unit : Mines
Type of Sample : Surface Water
Date of Sample Collection/Monitoring : 12-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 10-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Suras Pit

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(<0.0001)	APHA 2012 : 6440 B
2	Pesticides [mg/l]	Not Detected	APHA : 2012
3	Nickel[mg/l]	BDL(<0.01)	IS 3025 part-54:2003

Notes :-

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Puran Mal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/1181)



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No : WW/NABL/747
Job Identification : URL-TC502518200000005
Date : 09/10/2018
Issued to : M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines , Araj no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District – Bhilwara – 311802
Type of Unit : Mines
Type of Sample : Waste Water
Collected by : Mr. Parsha Ram Kudi
Date of Sample Collection : 11/09/2018
Date of Received : 15/09/2018
Date of Test : 15/09/2018 to 09/10/2018
Point of Collection : Tailing Filter Recycling water
Testing Protocol : APHA :2017

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.51
3.	Total Suspended Solids	mg/l	22
4.	Oil & Grease mg/l	mg/l	3
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	6.31
6.	Chemical Oxygen Demand	mg/l	30.4
7.	Dissolved Oxygen	mg/l	5.3
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	2.8
9.	Total Kjeldahal Nitrogen as N	mg/l	12.4
10.	Free Ammonia as NH ₃	mg/l	BDL(<0.1)
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	7.49
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	1.44
14.	Total Dissolved Solid (TDS)	mg/l	1833
15.	Total Phosphate as PO ₄ -P	mg/l	0.48
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL(<0.001)
18.	Arsenic as As	mg/l	BDL(<0.01)
19.	Mercury as Hg	mg/l	BDL(<0.001)
20.	Lead as Pb	mg/l	0.07
21.	Cadmium as Cd	mg/l	0.002
22.	Copper as Cu	mg/l	0.02
23.	Zinc as Zn	mg/l	0.027
24.	Selenium as Se	mg/l	BDL(<0.01)
25.	Nickel as Ni	mg/l	BDL(<0.01)
26.	Cynide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	BDL(<0.01)
28.	Iron as Fe	mg/l	BDL(<0.01)
29.	Total Chromium as Cr	mg/l	BDL(<0.01)

Note: -

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Puran Malhotra
Senior Analyst

Authorized Signatory



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E-mail : director@teamtesthouse.com

TEST REPORT

Report No	: WW/NABL/748
Job Identification	: URL-TC502518200000006
Date	: 09/10/2018
Issued to	: M/s. Jindal Saw Limited Dhedwas Iron Ore Copper & Associated Minerals Mines, Araj no. 9697/6711 Near Tiranga Hills Village - Pur Tehsil & District – Bhilwara – 311802
Type of Unit	: Mines
Type of Sample	: Waste Water
Collected by	: Mr. Parsha Ram Kudi
Date of Sample Collection	: 11/09/2018
Date of Received	: 15/09/2018
Date of Test	: 15/09/2018 to 09/10/2018
Point of Collection	: Tailing Pond
Testing Protocol	: APHA :2017

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.78
3.	Total Suspended Solids	mg/l	31
4.	Oil & Grease mg/l	mg/l	4
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	8.52
6.	Chemical Oxygen Demand	mg/l	35.0
7.	Dissolved Oxygen	mg/l	6.8
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	3.62
9.	Total Kjeldahal Nitrogen as N	mg/l	10.5
10.	Free Ammonia as NH ₃	mg/l	0.45
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	6.70
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	1.32
14.	Total Dissolved Solid (TDS)	mg/l	1874
15.	Total Phosphate as PO ₄ -P	mg/l	2.78
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL (<0.0001)
18.	Arsenic as As	mg/l	BDL (<0.01)
19.	Mercury as Hg	mg/l	BDL (<0.001)
20.	Lead as Pb	mg/l	BDL (<0.01)
21.	Cadmium as Cd	mg/l	0.003
22.	Copper as Cu	mg/l	0.02
23.	Zinc as Zn	mg/l	0.20
24.	Selenium as Se	mg/l	BDL (<0.01)
25.	Nickel as Ni	mg/l	0.03
26.	Cynide as CN	mg/l	BDL (<0.01)
27.	Manganese as Mn	mg/l	0.26
28.	Iron as Fe	mg/l	0.08
29.	Total Chromium as Cr	mg/l	BDL (<0.01)

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Puran
Senior Analyst

Rajesh
Authorized Signatory



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TEST REPORT

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E-mail : director@teamtesthouse.com

Date
Issued to

: WW/NABL/750
: URL-TC502518200000008
: 09/10/2018

: M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines, Arajji no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District - Bhilwara - 311802

Type of Unit
Type of Sample
Collected by
Date of Sample Collection
Date of Received
Date of Test
Point of Collection

: Mines
: Waste Water
: Mr. Parsha Ram Kudi
: 11/09/2018
: 15/09/2018
: 15/09/2018 to 09/10/2018
: STP Incoming/ Reservoir water

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.85
3.	Total Suspended Solids	mg/l	55
4.	Oil & Grease mg/l	mg/l	5
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	10.7
6.	Chemical Oxygen Demand	mg/l	26.5
7.	Dissolved Oxygen	mg/l	5.2
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	3.50
9.	Total Kjeldahl Nitrogen as N	mg/l	16.4
10.	Free Ammonia as NH ₃	mg/l	0.44
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	7.40
12.	Total Residual Chlorine	mg/l	BDL (<0.1)
13.	Fluoride	mg/l	1.35
14.	Total Dissolved Solid (TDS)	mg/l	1942
15.	Total Phosphate as PO ₄ -P	mg/l	1.75
16.	Sulphide as S	mg/l	BDL (<0.01)
17.	Phenolic Compound	mg/l	BDL (<0.01)
18.	Arsenic as As	mg/l	BDL (<0.01)
19.	Mercury as Hg	mg/l	BDL (<0.001)
20.	Lead as Pb	mg/l	BDL (<0.01)
21.	Cadmium as Cd	mg/l	BDL (< 0.01)
22.	Copper as Cu	mg/l	BDL (<0.01)
23.	Zinc as Zn	mg/l	0.22
24.	Selenium as Se	mg/l	BDL (<0.01)
25.	Nickel as Ni	mg/l	BDL (<0.01)
26.	Cyanide as CN	mg/l	BDL (<0.01)
27.	Manganese as Mn	mg/l	BDL (<0.01)
28.	Iron as Fe	mg/l	0.07
29.	Total Chromium as Cr	mg/l	BDL (<0.01)

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Puran
Senior Analyst

Rajesh Maheshwari
Authorized Signatory



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TEST REPORT

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Report No : WW/NABL/749
Job Identification : URL-TC502518200000007
Date : 09/10/2018
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
Type of Unit : Mines
Type of Sample : Waste Water
Collected by : Mr. Parsha Ram Kudi
Date of Sample Collection : 11/09/2018
Date of Received : 15/09/2018
Date of Test : 15/09/2018 to 09/10/2018
Point of Collection : Siltation Pond
Testing Protocol : APHA :2017

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.41
3.	Total Suspended Solids	mg/l	26
4.	Oil & Grease mg/l	mg/l	3
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	18.5
6.	Chemical Oxygen Demand	mg/l	86.3
7.	Dissolved Oxygen	mg/l	5.5
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	2.63
9.	Total Kjeldahal Nitrogen as N	mg/l	15.26
10.	Free Ammonia as NH ₃	mg/l	0.81
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	8.50
12.	Total Residual Chlorine	mg/l	BDL (< 0.1)
13.	Fluoride	mg/l	1.40
14.	Total Dissolved Solid (TDS)	mg/l	1780
15.	Total Phosphate as PO ₄ -P	mg/l	2.45
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL(<0.0001)
18.	Arsenic as As	mg/l	BDL(<0.01)
19.	Mercury as Hg	mg/l	BDL(<0.001)
20.	Lead as Pb	mg/l	0.01
21.	Cadmium as Cd	mg/l	0.003
22.	Copper as Cu	mg/l	0.05
23.	Zinc as Zn	mg/l	0.26
24.	Selenium as Se	mg/l	BDL(<0.01)
25.	Nickel as Ni	mg/l	BDL(<0.01)
26.	Cynide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	0.18
28.	Iron as Fe	mg/l	0.14
29.	Total Chromium as Cr	mg/l	0.05

Note: -

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Purani
Senior Analyst

Authorized Signatory



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Phone : 0141-2269980, 2771865
Website : www.teamtesthouse.com

Report No

Job Identification

Date

Issued to

Type of Unit

Type of Sample

Collected by

Date of Sample Collection

Date of Received

Date of Test

Point of Collection

Testing Protocol

TEST REPORT

: WW/NABL/751

: URL-TC502518200000009

: 09/10/2018

: M/s. Jindal Saw Limited

Dhedwas Iron Ore Copper & Associated Minerals

Mines, Arajai no. 9697/6711 Near Tiranga Hills

Village - Pur Tehsil & District - Bhilwara - 311802

: Mines

: Waste Water

: Mr. Parsha Ram Kudi

: 11/09/2018

: 15/09/2018

: 15/09/2018 to 09/10/2018

: BFN Recycling Water

: APHA 2012

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

RESULTS

S. No	Parameters	Units	Observed Value
1.	Colour	Hazen	10
2.	pH	-	7.45
3.	Total Suspended Solids	mg/l	36
4.	Oil & Grease mg/l	mg/l	4
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	10.6
6.	Chemical Oxygen Demand	mg/l	38.3
7.	Dissolved Oxygen	mg/l	6.3
8.	Ammonical Nitrogen as NH ₄ -N	mg/l	2.36
9.	Total Kjeldahal Nitrogen as N	mg/l	13.4
10.	Free Ammonia as NH ₃	mg/l	0.40
11.	Nitrate Nitrogen as NO ₃ -N	mg/l	8.25
12.	Total Residual Chlorine	mg/l	0.2
13.	Fluoride	mg/l	1.28
14.	Total Dissolved Solid (TDS)	mg/l	1868
15.	Total Phosphate as PO ₄ -P	mg/l	3.22
16.	Sulphide as S	mg/l	BDL (< 0.1)
17.	Phenolic Compound	mg/l	BDL(<0.0001)
18.	Arsenic as As	mg/l	BDL(<0.01)
19.	Mercury as Hg	mg/l	BDL(<0.001)
20.	Lead as Pb	mg/l	BDL(<0.01)
21.	Cadmium as Cd	mg/l	0.002
22.	Copper as Cu	mg/l	BDL(<0.01)
23.	Zinc as Zn	mg/l	0.20
24.	Selenium as Se	mg/l	BDL(<0.01)
25.	Nickel as Ni	mg/l	0.04
26.	Cynide as CN	mg/l	BDL(<0.01)
27.	Manganese as Mn	mg/l	0.35
28.	Iron as Fe	mg/l	0.13
29.	Total Chromium as Cr	mg/l	0.03

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

Puran Mahapatra
Senior Analyst

Rajesh Maheshwan
Authorized Signatory



TEAM TEST HOUSE

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



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TEST REPORT

Report No. : W/NABL/1269
Date : 15-10-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Araj No.
9967/6711, Near Tirnga 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 : 14-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 15-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : Ground Water BFN Unit

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	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 1983	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7 & 8) : 1984	Agreeable	-
4	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984	1.00	5.00
5	pH	7.46	IS 3025 (Part 11) : 1984	6.50 - 8.50	-
6	Hardness (total) [mg/l]	550	IS 3025 (Part 21) : 1983	200.00	600.00
7	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003	0.3	-
8	Chloride [mg/l]	512	IS 3025 (Part 32) : 1988	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1955	IS 3025 (Part 16) : 1984	500.00	2000.00
10	Calcium [mg/l]	152	IS 3025 (Part 40) : 1991	75.00	200.00
11	Magnesium [mg/l]	53.46	IS 3025 (Part 46) : 1994	30.00	100.00
12	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992	0.05	1.50
13	Manganese [mg/l]	BDL(<0.01)	IS 3025 (Part 59)	0.1	0.3
14	Sulphate [mg/l]	348	IS 3025 (Part 24) : 1986	200.00	400.00
15	Nitrate [mg/l]	28.45	IS 3025 (Part 34) : 1988	45.00	-

Note:

Continue to next page...

Rajesh Maheshwari



TEAM TEST HOUSE

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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
16	Fluoride [mg/l]	1.40	IS 3025 (Part 60)	1.00	1.50
17	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992	0.003	-
18	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988	0.01	0.05
19	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994	0.01	-
20	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994	5.00	15.00
21	Alkalinity - T [mg/l]	290	IS 3025 (Part 23) : 1986	200.00	600.00
22	Aluminum [mg/l]	BDL(<0.01)	IS 3025 (Part 55) : 2003	0.03	0.2
23	Boron [mg/l]	0.45	IS 13428 (Annexure H)	0.5	1.0
24	E-coli [MPN/100ml]	BDL	IS 5887 (Part 1)	Shall not be detectable in 100 ml sample	-
25	Total coliform [MPN/100ml]	BDL	IS 5401 (Part 2) : 2002	Shall not be detectable in 100 ml sample	-
26	Suspended Solids [mg/l]	Less than 1.0	IS 3025 (part 15) : 1984	-	-
27	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986	0.2	1.0
28	Total Chromium [mg/l]	BDL(<0.01)	APHA :2012 :3111- B	0.05	-
29	selenium [mg/l]	BDL(<0.01)	IS 3025 (Part 56) : 2003	0.01	-
30	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994	0.001	-
31	Phenolic Compound [mg/l]	BDL(<0.001)	IS 3025 (Part 43) : 1992	0.001	0.002
32	Mineral oil [mg/l]	BDL(<0.5)	IS 3025 (Part 39) : 1991	0.5	-
33	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986	0.05	-
34	Calcium Hardness [mg/l]	390	IS 3025 (Part 40) : 1991	-	-
35	Anionic Surface Detergents as MBA's [mg/l]	BDL(<0.1)	IS 13428 (Annexure K)	0.2	1.00

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari

Authorized Signatory
(Report No: W/NABL/1269)



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TEST REPORT

Report No.: W/1269
Date : 16101-2018
Issued To : M/S Jindal Saw Limited (Dhedwas Mines)
Dhedwas Iron Ore Copper & Associated Minerals Mines Arajji No. 9967/6711, Near Tirnga 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 : 14-09-2018
Date of Sample Receipt : 18-09-2018
Date of Test : 18-09-2018 to 15-10-2018
Sample Collected By : Parsa Ram Kudi
Point of Collection : **Ground Water BFN Unit**

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	Polynuclear aromatic Hydrocarbon [mg/l]	BDL(0.0001)	APHA 2012 : 6440 B	0.0001	-
2	Pesticides [mg/l]	Not Detected	APHA : 2012	-	-

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Pawan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: W/1269)



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TEST REPORT

Report No N/728
Date 05/10/2018
Issued to M/s. Jindal Saw Limited
Dhedwas Iron Ore Copper & Associated Minerals
Mines , Arajī no. 9697/6711 Near Tiranga Hills
Village - Pur Tehsil & District – Bhilwara – 311802
(Rajasthan)
Type of Unit Mines
Date of Monitoring 06/09/2018 to 10/09/2018
Date of Sample Receipt 15/09/2018
Date of Test 15/09/2018
Sample Collected by Parsha Ram Kuri
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	Rural Area	53.6	41.3
2.	Samodi Village	Rural Area	48.3	39.6
3.	Suras Village	Rural Area	49.4	40.2
4.	Gandhi Sagar park, Bhilwara	Rural Area	53.6	42.8
5.	Kanoli Village	Rural Area	47.5	37.8
6.	Dhulkhera Village	Rural Area	50.2	42.3
7.	Dariba Village	Rural Area	51.4	41.7

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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Purnima Mehta
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No.: - N/728)



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TEST REPORT

Report No N/729
 Date 05/10/2018
 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 08/10/2018 to 12/09/2018
 Date of Sample Receipt 15/09/2018
 Date of Test 15/09/2018
 Sample Collected by Parsha Ram Kuri
 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)	67.3	59.2
2.	Dhulkhera mines Area (10.0 m of loading Point)	65.2	58.6
3	Suras Mines Area (10.0 m of loading Point)	64.7	56.3
4	Tiranga Mines Area (10.0 m of loading Point)	68.5	61.4
5	Nr. Central Store/ Tata Blue Shed	70.2	63.5
6	Nr. Crusher (CCR Building)	71.4	64.0
7	Filter Fresh Building	72.3	63.6
8	Nr. BFN CCR Building	71.6	63.3

Standard Limits [in dB (A)] Leq:

Category of Area/ Zone	Day Time	Night Time
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

Note: -

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Puran Ma Senior Analyst

Rajesh Maheshwan
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(Report No.: - N/729)