

Sample Number : VTL/AA/01

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140001/A

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Tiranga Pit
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/07
Coordinates : 25°19'28" & 74°32'4"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024 To 09/03/2024
Time of Monitoring : 14:50 TO 14:50 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	85.92	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	42.82	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	24.08	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	12.44	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BDL(<1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed., 1988, Method No. 401	13.15	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	7.78	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BDL(<0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed., 1988, Method No.302	*BDL(<0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BDL(<5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m³	1

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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Vibrant Techno Lab Pvt. Ltd.

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Sample Number : VTL/AA/01

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140001/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Tiranga Pit
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/07
Coordinates : 25°19'28" & 74°32'4"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024 To 09/03/2024
Time of Monitoring : 14:50 TO 14:50 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10):-1999, RA. 2019 (NDIR)	0.99	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	246.57	µg/m ³	--

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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Sample Number : VTL/AA/04

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140004/A

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Samodi Village
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 25°21'3" & 74°32'52"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 12:30 TO 12:30 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	72.33	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	36.73	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	17.90	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.76	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BDL(<1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis, 3rd ed., 1988, Method No. 401	11.85	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	8.61	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BDL(<0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.302	*BDL(<0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BDL(<5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m³	1

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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TEST REPORT

Sample Number : VTL/AA/04

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140004/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Samodi Village
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 25°21'3" & 74°32'52"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 12:30 TO 12:30 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.80	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA 2014	194.06	µg/m ³	--

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Sample Number : VTL/AA/02
Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140002/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Dhulkhera Pit
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 25°23'32" & 74°34'25"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024 To 09/03/2024
Time of Monitoring : 18:45 TO 18:45 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 35°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	81.81	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	41.45	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	21.46	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	12.40	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BDL(<1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	10.26	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	15.23	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BDL(<0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BDL(<0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BDL(<5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m³	1

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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TEST REPORT

Sample Number : VTL/AA/02

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140002/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Dhulkhera Pit
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 25°23'32" & 74°34'25"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024 To 09/03/2024
Time of Monitoring : 18:45 TO 18:45 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 35°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.94	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	237.55	µg/m ³	--

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Sample Number : VTL/AA/03

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140003/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Suras Pit
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 25°23'25" & 74°34'11"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024 To 09/03/2024
Time of Monitoring : 18:30 TO 18:30 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	86.02	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	43.98	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	24.01	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	13.20	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BDL(<1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed., 1988, Method No. 401	15.96	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	12.69	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BDL(<0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed., 1988, Method No.302	*BDL(<0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BDL(<5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m³	1

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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TEST REPORT

Sample Number : VTL/AA/03

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140003/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Suras Pit
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 25°23'25" & 74°34'11"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024 To 09/03/2024
Time of Monitoring : 18:30 TO 18:30 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.89	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	211.73	µg/m ³	--

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Sample Number : VTL/AA/05

TEST REPORT

TC-11227

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403280005/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 03/04/2024
Period of Analysis : 28/03/2024-03/04/2024
Receipt Date : 28/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Tiranga Pit
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 25°19'25" & 74°32'4"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 28/03/2024 To 27/03/2024
Time of Monitoring : 12:00 to 12:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	87.95	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	45.12	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	24.16	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	13.62	µg/m ³	80

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TEST REPORT

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Sample Number : VTL/AA/05

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No. :- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403280005/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 03/04/2024

Period of Analysis : 28/03/2024-03/04/2024

Receipt Date : 28/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Tiranga Pit
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 25°19'25" & 74°32'4"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 26/03/2024 To 27/03/2024
Time of Monitoring : 12:00 to 12:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.88	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	268.0	µg/m ³	--

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**VIBRANT***"Experience the unimaginable"*

Sample Number : VTL/AA/06

Name & Address of the Party : M/S Jindal Saw Ltd.
 Dhedwas Iron Ore Mines & Mineral Beneficiation
 Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
 Pur, Tehsil & District- Bhilwara Rajasthan

TEST REPORT

TC-11227

Report No. : VTL/A/2403280006/A
 Format No : 7.8 F-02
 Party Reference No : NIL
 Report Date : 03/04/2024
 Period of Analysis : 28/03/2024-03/04/2024
 Receipt Date : 28/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Dhulkhera Pit
 Sample Collected By : VTL Team
 Sampling Equipment used : RDS/FPS
 Instrument Code : VTL/RDS/FPS/02
 Coordinates : 25°23'32" & 74°34'26"
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 25/03/2024 To 27/03/2024
 Time of Monitoring : 12:40 to 12:40 Hrs.
 Ambient Temperature (°C) : Min. 28°C Max. 42°C
 Surrounding Activity : Human, Vehicular & Other Activities
 Scope of Monitoring : Regulatory Requirement
 Method of Sampling : IS :5182
 Sampling Duration : 24 Hrs.
 Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	84.57	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	42.31	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	23.76	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	12.59	µg/m³	80

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

End of Report

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Sample Number : VTL/AA/06

TEST REPORT

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403280006/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 03/04/2024
Period of Analysis : 28/03/2024-03/04/2024
Receipt Date : 28/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Dhulkhera Pit
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Instrument Code : VTL/RDS/FPS/02
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Meteorological condition during monitoring : Clear Sky
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Time of Monitoring : 12:40 to 12:40 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.87	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	275.0	µg/m ³	--

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**VIBRANT***"Experience the unimaginable"*

Sample Number : VTL/AA/07

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No :- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan**TEST REPORT**

TC-11227

Report No. : VTL/A/2403280007/A

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 03/04/2024

Period of Analysis : 28/03/2024-03/04/2024

Receipt Date : 28/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Suras Pit
 Sample Collected By : VTL Team
 Sampling Equipment used : RDS/FPS
 Instrument Code : VTL/RDS/FPS/03
 Coordinates : 25°23'24" & 74°34'11"
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 26/03/2024 To 27/03/2024
 Time of Monitoring : 13:00 to 13:00 Hrs.
 Ambient Temperature (°C) : Min. 28°C Max. 42°C
 Surrounding Activity : Human, Vehicular & Other Activities
 Scope of Monitoring : Regulatory Requirement
 Method of Sampling : IS :5182
 Sampling Duration : 24 Hrs.
 Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	84.72	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	41.53	µg/m ³	80
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	22.77	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	13.49	µg/m ³	80

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TEST REPORT

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Sample Number : VTL/AA/07

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Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403280007/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 03/04/2024

Period of Analysis : 28/03/2024-03/04/2024

Receipt Date : 28/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Suras Pit
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 25°23'24" & 74°34'11"
Meteorological condition during monitoring : Clear Sky
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Time of Monitoring : 13:00 to 13:00 Hrs.
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Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.87	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA 2014	282.0	µg/m ³	--

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VIBRANT

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Sample Number : VTL/AA/08

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

TEST REPORT



Report No. : VTL/A/2403280008/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 03/04/2024
Period of Analysis : 28/03/2024-03/04/2024
Receipt Date : 28/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Samodi Village
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 25°21'3" & 74°32'52"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 26/03/2024 To 27/03/2024
Time of Monitoring : 15:00 to 15:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS:5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	73.57	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	33.69	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	21.45	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.61	µg/m³	80

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TEST REPORT

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Sample Number : VTL/AA/08

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403280008/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 03/04/2024

Period of Analysis : 28/03/2024-03/04/2024

Receipt Date : 28/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Samodi Village
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Sampling Equipment used : RDS/FPS
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Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10):1999, RA. 2019 (NDIR)	0.80	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA 2014	245.0	µg/m ³	--

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Sample Number : VTL/AA/08

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
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TEST REPORT



Report No. : VTL/A/2403280008/A
Format No : 7.8 F-02
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Report Date : 03/04/2024
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Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS:5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	73.57	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	33.69	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	21.45	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.61	µg/m³	80

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Sample Number : VTL/AA/08

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Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403280008/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 03/04/2024

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S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10):1999, RA. 2019 (NDIR)	0.80	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA 2014	245.0	µg/m ³	--

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Sample Number : VTL/AA/06

Name & Address of the Party : M/S Jindal Saw Ltd.
 Dhedwas Iron Ore Mines & Mineral Beneficiation
 Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
 Pur, Tehsil & District- Bhilwara Rajasthan

TEST REPORT

TC-11227

Report No. : VTL/A/2403280006/A
 Format No : 7.8 F-02
 Party Reference No : NIL
 Report Date : 03/04/2024
 Period of Analysis : 28/03/2024-03/04/2024
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Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

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 Sample Collected By : VTL Team
 Sampling Equipment used : RDS/FPS
 Instrument Code : VTL/RDS/FPS/02
 Coordinates : 25°23'32" & 74°34'26"
 Meteorological condition during monitoring : Clear Sky
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 Time of Monitoring : 12:40 to 12:40 Hrs.
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 Surrounding Activity : Human, Vehicular & Other Activities
 Scope of Monitoring : Regulatory Requirement
 Method of Sampling : IS :5182
 Sampling Duration : 24 Hrs.
 Parameter Required : As per work order

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Sample Number : VTL/AA/06

TEST REPORT

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Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
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Report No. : VTL/A/2403280006/B
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Sample Number : VTL/AA/07

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No. :- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan**TEST REPORT**

Report No. : VTL/A/2403280007/A
 Format No : 7.8 F-02
 Party Reference No : NIL
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 Surrounding Activity : Human, Vehicular & Other Activities
 Scope of Monitoring : Regulatory Requirement
 Method of Sampling : IS :5182
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S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
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4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	13.49	µg/m ³	80

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Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403280007/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 03/04/2024

Period of Analysis : 28/03/2024-03/04/2024

Receipt Date : 28/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Suras Pit
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 25°23'24" & 74°34'11"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 26/03/2024 To 27/03/2024
Time of Monitoring : 13:00 to 13:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.87	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA 2014	282.0	µg/m ³	--

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

End of Report

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Sample Number : VTL/AA/06

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140006/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Pur Village
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/06
Coordinates : 25°18'22" & 74°32'20"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 17:30 TO 17:30 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	73.49	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	38.54	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	22.95	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.15	µg/m ³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BDL(<1.0)	µg/m ³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis, 3rd ed., 1988, Method No. 401	14.85	µg/m ³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	9.87	µg/m ³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BDL(0.02)	µg/m ³	1
9	Arsenic (as As)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.302	*BDL(<0.15)	ng/m ³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2, 1999	*BDL(<5.0)	ng/m ³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m ³	1

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

End of Report



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**VIBRANT***"Experience the unimaginable"***TEST REPORT**

Sample Number : VTL/AA/06

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140006/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Pur Village
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/06
Coordinates : 25°18'22" & 74°32'20"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 17:30 TO 17:30 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.74	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	198.70	µg/m ³	--

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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Sample Number : VTL/AA/05
Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140005/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Dariba Village
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/05
Coordinates : 25°20'21" & 74°31'35"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 13:00 TO 13:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	70.35	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	34.17	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	16.42	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	9.93	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BDL(<1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis, 3rd ed., 1988, Method No. 401	11.85	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	6.59	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BDL(<0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.302	*BDL(<0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2, 1999	*BDL(<5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m³	1

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

End of Report



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Sample Number : VTL/AA/05

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140005/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Dariba Village
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/05
Coordinates : 25°20'21" & 74°31'35"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 13:00 TO 13:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.77	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	173.39	µg/m ³	--

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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Sample Number : VTL/AA/07

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140007/A

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Kanoli Village
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 25°16'13" & 74°36'10"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 09/03/2024 To 10/03/2024
Time of Monitoring : 11:40 TO 11:40 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	65.55	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	32.83	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	17.97	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.40	µg/m ³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BDL(<1.0)	µg/m ³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	15.49	µg/m ³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	11.06	µg/m ³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BDL(<0.02)	µg/m ³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BDL(<0.15)	ng/m ³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BDL(<5.0)	ng/m ³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m ³	1

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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TEST REPORT

Sample Number : VTL/AA/07

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140007/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Kanoli Village
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 25°16'13" & 74°36'10"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 09/03/2024 To 10/03/2024
Time of Monitoring : 11:40 TO 11:40 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.74	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA 2014	175.07	µg/m ³	--

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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Sample Number : VTL/AA/09

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140009/A

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Gandhisagar Park
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/05
Coordinates : 25°20'10" & 74°38'57"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 09/03/2024 To 10/03/2024
Time of Monitoring : 10:40 TO 10:40 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	81.29	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	38.40	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	24.03	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	13.24	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BDL(<1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	16.85	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	14.26	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BDL(<0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BDL(<0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BDL(<5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m³	1

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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TEST REPORT

Sample Number : VTL/AA/09

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140009/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Gandhisagar Park
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/05
Coordinates : 25°20'10" & 74°38'57"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 09/03/2024 To 10/03/2024
Time of Monitoring : 10:40 TO 10:40 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	1.05	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	226.91	µg/m ³	--

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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Sample Number : VTL/AA/08

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140008/A

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Lake View Lawn
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/07
Coordinates : 25°19'34" & 74°32'33"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 13:50 TO 13:50 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	76.38	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	36.33	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	18.50	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	12.02	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BDL(<1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	21.26	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	16.23	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BDL(<0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BDL(<0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BDL(<5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m³	1

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

End of Report



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TEST REPORT

Sample Number : VTL/AA/08

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140008/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Lake View Lawn
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/07
Coordinates : 25°19'34" & 74°32'33"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 13:50 TO 13:50 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.97	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	234.23	µg/m ³	--

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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Sample Number : VTL/AA/10

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140010/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Temple Area
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/08
Coordinates : 25°19'1" & 74°32'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 22:10 TO 22:10 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	68.62	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	34.06	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	17.35	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.32	µg/m³	60
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BDL(<1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	7.56	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	13.26	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BDL(<0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BDL(<0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BDL(<5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m³	1

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

End of Report



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TEST REPORT

Sample Number : VTL/AA/10

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2403140010/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Temple Area
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/08
Coordinates : 25°19'1" & 74°32'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 22:10 TO 22:10 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10):-1999, RA. 2019 (NDIR)	0.71	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	193.70	µg/m ³	--

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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Sample Number : VTL/FD/03

M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-

Name & Address of the Party : Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/FD/2403140003/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : Fugitive Dust Emission Monitoring

General Information :-

Sampling Location : Crusher Unit Nr. Centre Work Shop
Sample Collected By : VTL Team
Sampling Equipment used : RDS
Instrument Code : VTL/RDS/06
Coordinates : 25°19'1" & 74°32'3"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 07/03/2024
Time of Monitoring : 14:00 TO 22:00 Hrs.
Ambient Temperature (°C) : Min. 15°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Method of Sampling : Lab STP: VTL/STP/02
Sampling Duration : 8 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Methods	Results	Units
1	Suspended Particulate Matter (as SPM)	Lab SOP no. VTL/STP/02:2022 , STP-01	533.50	µg/m3

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TEST REPORT

Sample Number : VTL/FD/01

M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05) Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/FD/2403140001/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : Fugitive Dust Emission Monitoring

General Information :-

Sampling Location : Raw Material Storage Yard (Nr. Weigh Bridge)
Sample Collected By : VTL Team
Sampling Equipment used : RDS
Instrument Code : VTL/RDS/05
Coordinates : 25°19'10" & 74°32'5"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 07/03/2024
Time of Monitoring : 13:00 TO 21:00 Hrs.
Ambient Temperature (°C) : Min. 15°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Method of Sampling : Lab STP: VTL/STP/02
Sampling Duration : 8 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Methods	Results	Units
1	Suspended Particulate Matter (as SPM)	Lab SOP no. VTL/STP/02:2022 , STP-01	519.82	µg/m3

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TEST REPORT

Sample Number : VTL/FD/02

M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No :- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/FD/2403140002/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : Fugitive Dust Emission Monitoring

General Information :-

Sampling Location : Haul Road Nr. Gate No.5
Sample Collected By : VTL Team
Sampling Equipment used : RDS
Instrument Code : VTL/RDS/04
Coordinates : 25°20'2" & 74°32'42"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024
Time of Monitoring : 10:50 TO 18:50 Hrs.
Ambient Temperature (°C) : Min. 18°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Method of Sampling : Lab STP: VTL/STP/02
Sampling Duration : 8 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Methods	Results	Units
1	Suspended Particulate Matter (as SPM)	Lab SOP no. VTL/STP/02:2022 , STP-01	577.27	µg/m3

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M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/FD/2403140004/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : Fugitive Dust Emission Monitoring**General Information :-**

Sampling Location : Screening Area- Crusher
Sample Collected By : VTL Team
Sampling Equipment used : RDS
Instrument Code : VTL/RDS/07
Coordinates : 25°19'10" & 74°32'11"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 07/03/2024
Time of Monitoring : 13:30 TO 21:30 Hrs.
Ambient Temperature (°C) : Min. 17°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Method of Sampling : Lab STP: VTL/STP/02
Sampling Duration : 8 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Methods	Results	Units
1	Suspended Particulate Matter (as SPM)	Lab SOP no. VTL/STP/02:2022 , STP-01	481.13	µg/m3

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Sample Number : VTL/FD/05

M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/FD/2403140005/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : Fugitive Dust Emission Monitoring

General Information :-

Sampling Location : Waste Dump Storage
Sample Collected By : VTL Team
Sampling Equipment used : RDS
Instrument Code : VTL/RDS/04
Coordinates : --
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024
Time of Monitoring : 10:30 TO 18:30 Hrs.
Ambient Temperature (°C) : Min. 18°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Method of Sampling : Lab STP: VTL/STP/02
Sampling Duration : 8 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Methods	Results	Units
1	Suspended Particulate Matter (as SPM)	Lab SOP no. VTL/STP/02:2022 , STP-01	638.53	µg/m3

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TEST REPORT



Sample Number : VTL/S/01

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/S/2403140003/A

Format No : 7.8 F-03

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : DG Set 1010 KVA
Sample Collected By : VTL Team
Date of Sampling : 11/03/2024
Sampling duration (Minutes) : 38 min. (17:00 to 17:38 hrs.)
Stack attached to : DG Set
Make of stack : SS
Diameter of stack(m) : 225 MM
Height of stack(m) : 20.0 M
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 32°C
Temperature of Stack Gases - Ts (°C) : 104°C
Velocity of Stack Gases (m/sec.) : 7.78
Flow rate of PM (LPM) : 26
Flow rate of Gas (LPM) : 2.0
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : 25°19'9" & 74°32'20"

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	52.19	mg/Nm3	75
2	Oxide of Nitrogen (NOX)	IS 11255 (P- 7) 2005; RA 2017	111.10	mg/Nm3	710
3	Total Hydrocarbon (HC)	USEPA 18: 1996	10.40	mg/Nm3	100
4	Sulphur Dioxide (SO2)	IS: 11255(P-2): 1985, RA 2019	18.51	mg/Nm3	--
5	Carbon Monoxide (CO)	USEPA 10: 1996	38.59	mg/Nm3	150

*BLQ= Below Limit Of Quantification, **LOQ= Limit Of Quantification

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Sample Number : VTL/WW/01

M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Name & Address of the Party :

Sample Description : Waste Water

Sampling Location : 10 KLD STP Outlet - BFN Plant -A

Sample Collected By : VTL Team

Coordinates : 25°19'6" & 74°32'16"

ULR No. : TC1122724000000098F
Report No. : VTL/WW/2403140001/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 12/03/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.39	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	14.30	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BDL(<4.0)	mg/l	10
4	Residual Chlorine	IS: 3025 (P-26): 2021	0.29	mg/l	1
5	Ammonical Nitrogen (as NH ₃ -N)	IS: 3025 (P-34) : 1988, Sec.4 RA: 2022	4.76	mg/l	50
6	Total Kjeldahl Nitrogen (as NH ₃)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	3.92	mg/l	100
7	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	10.50	mg/l	30
8	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	49.40	mg/l	250
9	Sulphide (as S)	IS: 3025 (P-29) :1986 Idometric, RA :2019	0.32	mg/l	2
10	Nitrate (as NO ₃)	IS: 3025 (P-34) Chromotropic Method, RA 2019	7.89	mg/l	--

*BLQ-Below Limit OF Quantification, **LOQ- Limit Of Detection

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**VIBRANT***"Experience the unimaginable"***TEST REPORT**

Sample Number : VTL/WW/01

M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-

Name & Address of the Party : Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Waste Water

Sampling Location : 10 KLD STP Outlet - BFN Plant -A

Sample Collected By : VTL Team

Coordinates : 25°19'6" & 74°32'16"

Report No. : VTL/WW/2403140001/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA. 2019	151.36	mg/l	--
2	Fecal Coliform	IS 1622, 2009	36.00	MPN/100 ml	<1000

*BLQ-Below Limit OF Quantification, **LOQ- Limit Of Detection

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Sample Number : VTL/WW/02

M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-

Name & Address of the Party : Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Waste Water

Sampling Location : 10 KLD STP Outlet - BFN Plant -B

Sample Collected By : VTL Team

Coordinates : 25°19'10" & 74°32'17"

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.33	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	10.80	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BDL(<4.0)	mg/l	10
4	Residual Chlorine	IS: 3025 (P-26): 2021	0.35	mg/l	1
5	Ammonical Nitrogen (as NH ₃ -N)	IS: 3025 (P-34) : 1988, Sec.4 RA: 2022	5.60	mg/l	50
6	Total Kjeldahl Nitrogen (as NH ₃)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	4.48	mg/l	100
7	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	8.40	mg/l	30
8	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	59.28	mg/l	250
9	Sulphide (as S)	IS: 3025 (P-29) :1986 Idometric, RA :2019	0.64	mg/l	2
10	Nitrate (as NO ₃)	IS: 3025 (Pt-34) Chromotropic Method, RA 2019	5.39	mg/l	--

*BLQ-Below Limit OF Quantification, **LOQ- Limit Of Detection

End of Report



TC-11227

ULR No. : TC1122724000000099F

Report No. : VTL/WW/2403140002/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Parameter Required : As per work order

VIBRANT*"Experience the unimaginable"*

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**VIBRANT***"Experience the unimaginable"***TEST REPORT**

Sample Number : VTL/WW/02

M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-

Name & Address of the Party : Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Waste Water

Sampling Location : 10 KLD STP Outlet - BFN Plant -B

Sample Collected By : VTL Team

Coordinates : 25°19'10" & 74°32'17"

Report No. : VTL/WW/2403140002/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA. 2019	142.86	mg/l	--
2	Fecal Coliform	IS 1622, 2009	39.00	MPN/100 ml	<1000

*BLQ-Below Limit OF Quantification, **LOQ- Limit Of Detection

End of Report



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TEST REPORT



VIBRANT

"Experience the unimaginable"
Sample Number : VTL/GW/03

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Pur Village

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

ULR No. : TC1122724000000104F

Report No. : VTL/W/2403140003/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°23'16" & 74°33'40"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.31	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BDL(<1.0)	NTU	1	5
3	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	320.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	84.17	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	340.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	212.00	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	26.73	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	778.00	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	84.14	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.98	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	32.10	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.29	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BDL(<0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BDL(<0.2)	mg/l	0.5	1.0
15	Total Chromium (as Cr)	APHA 23rd Edition 2017 3113 B, 2017	*BDL(<0.02)	mg/l	0.05	No Relaxation
16	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C: 2017	*BDL(<0.001)	mg/l	0.001	0.002
17	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.39	mg/l	5.0	15.0



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TEST REPORT



TC-11227

VIBRANT

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Sample Number : VTL/GW/03

ULR No. : TC1122724000000104F

Report No. : VTL/W/2403140003/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BDL(<0.02)	mg/l	0.05	1.5
19	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BDL(<0.05)	mg/l	0.1	0.3
20	Cadmium (as Cd)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.002)	mg/l	0.003	No Relaxation
21	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
22	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
23	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	0.05
24	Mercury (as Hg)	APHA 23rd edition, 3114C 2017	*BDL(<0.001)	mg/l	0.001	No Relaxation
25	Total Coliform	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	Free Residual Chlorine	IS 3025 (P-26):2021	*BDL(<0.2)	mg/l	0.2	1.0
28	Calcium Hardness	IS: 3025 (P-40): 1991 RA 2019	210.00	mg/l	--	--

*BDL-Below Detection Limit

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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/GW/03

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhitwara Rajasthan

Sample Description : Water Sample

Sampling Location : Pur Village

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTLW/2403140003/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°23'16" & 74°33'40"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BDL(<5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition 4500D,2017	*BDL(<5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BDL(<0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BDL(<0.05)	mg/l	0.2	1.0
7	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 23rd Edition,5175/6630 2017	*BDL(<0.01)	mg/l	0.0001	No relaxation
8	Total Pesticides	APHA 23rd Edition-6630, 8141A 2017	*BDL(<0.01)	µg/L	-	-

*BDL-Below Detection Limit

End of Report



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TEST REPORT



VIBRANT

"Experience the unimaginable"
Sample Number : VTL/GW/07

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Water Sample
Sampling Location : Dariba Village
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000000108F
Report No. : VTL/W/2403140007/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 10/03/2024
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°20'26" & 74°31'37"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.42	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025; (P-10)1984, RA 2017	*BDL(<1.0)	NTU	1	5
3	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	490.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	124.25	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	515.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	276.51	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	43.74	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	1182.00	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	143.69	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.07	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	41.05	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.68	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BDL(<0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BDL(<0.2)	mg/l	0.5	1.0
15	Total Chromium (as Cr)	APHA 23rd Edition 2017 3113 B, 2017	*BDL(<0.02)	mg/l	0.05	No Relaxation
16	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C: 2017	*BDL(<0.001)	mg/l	0.001	0.002
17	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.78	mg/l	5.0	15.0



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TEST REPORT



VIBRANT

"Experience the unimaginable"
Sample Number : VTL/GW/07

ULR No. : TC1122724000000108F

Report No. : VTL/W/2403140007/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BDL(<0.02)	mg/l	0.05	1.5
19	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BDL(<0.05)	mg/l	0.1	0.3
20	Cadmium (as Cd)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.002)	mg/l	0.003	No Relaxation
21	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
22	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
23	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	0.05
24	Mercury (as Hg)	APHA 23rd edition, 3114C 2017	*BDL(<0.001)	mg/l	0.001	No Relaxation
25	Total Coliform	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	Free Residual Chlorine	IS 3025 (P-26):2021	*BDL(<0.2)	mg/l	0.2	1.0
28	Calcium Hardness	IS: 3025 (P-40): 1991 RA 2019	310.00	mg/l	--	--

*BDL- Below Detection Limit

End of Report

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TEST REPORT

VIBRANT

Experience the unimaginable

Sample Number : VTL/GW/07

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No :- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Dariba Village

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2403140007/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 10/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°20'26" & 74°31'37"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025 (P-4) 1983, :RA 2017	*BDL(<5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BDL(<5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BDL(<0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BDL(<0.05)	mg/l	0.2	1.0
7	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 23rd Edition,5175/6630 2017	*BDL(<0.01)	mg/l	0.0001	No relaxation
8	Total Pesticides	APHA 23rd Edition-6630, 8141A 2017	*BDL(<0.01)	µg/L	-	-

*BDL- Below Detection Limit

End of Report

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**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/GW/06

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Kanoli Village

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

TEST REPORT

TC-11227

ULR No. : TC1122724000000107F

Report No. : VTL/W/2403140006/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 09/03/2024

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°16'12" & 74°36'10"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.42	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10):1984, RA 2017	*BDL(<1.0)	NTU	1	5
3	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	520.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	140.28	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	545.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	381.09	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	41.31	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	1467.00	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	183.82	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.07	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	41.45	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.28	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BDL(<0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BDL(<0.2)	mg/l	0.5	1.0
15	Total Chromium (as Cr)	APHA 23rd Edition 2017 3113 B, 2017	*BDL(<0.02)	mg/l	0.05	No Relaxation
16	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C: 2017	*BDL(<0.001)	mg/l	0.001	0.002
17	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.39	mg/l	5.0	15.0



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TEST REPORT



TC-11227

VIBRANT

"Experience the unimaginable"
Sample Number : VTL/GW/06

ULR No. : TC1122724000000107F

Report No. : VTLW/2403140006/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BDL(<0.02)	mg/l	0.05	1.5
19	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BDL(<0.05)	mg/l	0.1	0.3
20	Cadmium (as Cd)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.002)	mg/l	0.003	No Relaxation
21	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
22	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
23	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	0.05
24	Mercury (as Hg)	APHA 23rd edition, 3114C 2017	*BDL(<0.001)	mg/l	0.001	No Relaxation
25	Total Coliform	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	—
26	E.Coli	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	—
27	Free Residual Chlorine	IS 3025 (P-26):2021	*BDL(<0.2)	mg/l	0.2	1.0
28	Calcium Hardness	IS: 3025 (P-40): 1991 RA 2019	350.00	mg/l	--	--

*BDL- Below Detection Limit

End of Report

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TEST REPORT

VIBRANT

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Sample Number : VTL/GW/06

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Kanoli Village

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2403140006/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 09/03/2024

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°16'12" & 74°36'10"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA: 2017	*BDL(<5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BDL(<5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BDL(<0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BDL(<0.05)	mg/l	0.2	1.0
7	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 23rd Edition,5175/8630 2017	*BDL(<0.01)	mg/l	0.0001	No relaxation
8	Total Pesticides	APHA 23rd Edition-6630, 8141A 2017	*BDL(<0.01)	µg/L	-	-

*BDL- Below Detection Limit

End of Report

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**VIBRANT**

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Sample Number : VTL/GW/05

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Gandhisagar Park

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

TEST REPORT

TC-11227

ULR No. : TC1122724000000106F

Report No. : VTL/W/2403140005/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 09/03/2024

Sampling Type : Grab

Sample Quantity : 2 Litre.

Coordinates : 25°20'11" & 74°38'57"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.39	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10)1984, RA 2017	*BDL(<1.0)	NTU	1	5
3	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	550.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	144.28	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	595.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	377.90	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	46.16	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	1566.00	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	173.46	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.14	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	43.42	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.25	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BDL(<0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BDL(<0.2)	mg/l	0.5	1.0
15	Total Chromium (as Cr)	APHA 23rd Edition 2017 3113 B, 2017	*BDL(<0.02)	mg/l	0.05	No Relaxation
16	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C: 2017	*BDL(<0.001)	mg/l	0.001	0.002
17	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.36	mg/l	5.0	15.0



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TEST REPORT



VIBRANT

"Experience the unimaginable"
Sample Number : VTL/GW/05

ULR No. : TC1122724000000106F

Report No. : VTL/W/2403140005/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BDL(<0.02)	mg/l	0.05	1.5
19	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BDL(<0.05)	mg/l	0.1	0.3
20	Cadmium (as Cd)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.002)	mg/l	0.003	No Relaxation
21	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
22	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
23	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	0.05
24	Mercury (as Hg)	APHA 23rd edition, 3114C 2017	*BDL(<0.001)	mg/l	0.001	No Relaxation
25	Total Coliform	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	Free Residual Chlorine	IS 3025 (P-26):2021	*BDL(<0.2)	mg/l	0.2	1.0
28	Calcium Hardness	IS: 3025 (P-40): 1991 RA 2019	360.00	mg/l	--	--

*BDL- Below Detection Limit

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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/GW/05

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Gandhisagar Park

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2403140005/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 09/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°20'11" & 74°38'57"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025 (P-4) 1983, :RA 2017	*BDL(<5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS : 3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition .4500D, 2017	*BDL(<5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BDL(<0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BDL(<0.05)	mg/l	0.2	1.0
7	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 23rd Edition, 5175/6630 2017	*BDL(<0.01)	mg/l	0.0001	No relaxation
8	Total Pesticides	APHA 23rd Edition-6630, 8141A 2017	*BDL(<0.01)	µg/L	-	-

*BDL- Below Detection Limit

End of Report

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TEST REPORT



VIBRANT

Experience the unimaginable
Sample Number : VTL/GW/04

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Samodi Village

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS:3025

ULR No. : TC1122724000000105F

Report No. : VTL/W/2403140004/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024 -19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 10/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°21'2" & 74°32'50"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.26	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10)1984, RA 2017	*BDL(<1.0)	NTU	1	5
3	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	340.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	96.19	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	370.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	184.32	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	24.30	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	926.00	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	97.09	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.87	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	26.84	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.22	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BDL(<0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BDL(<0.2)	mg/l	0.5	1.0
15	Total Chromium (as Cr)	APHA 23rd Edition 2017 3113 B, 2017	*BDL(<0.02)	mg/l	0.05	No Relaxation
16	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C: 2017	*BDL(<0.001)	mg/l	0.001	0.002
17	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.30	mg/l	5.0	15.0



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TEST REPORT



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Sample Number : VTL/GW/04

ULR No. : TC1122724000000105F

Report No. : VTL/W/2403140004/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BDL(<0.02)	mg/l	0.05	1.5
19	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BDL(<0.05)	mg/l	0.1	0.3
20	Cadmium (as Cd)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.002)	mg/l	0.003	No Relaxation
21	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
22	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
23	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	0.05
24	Mercury (as Hg)	APHA 23rd edition, 3114C 2017	*BDL(<0.001)	mg/l	0.001	No Relaxation
25	Total Coliform	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	Free Residual Chlorine	IS 3025 (P-26):2021	*BDL(<0.2)	mg/l	0.2	1.0
28	Calcium Hardness	IS: 3025 (P-40): 1991 RA 2019	239.99	mg/l	--	--

*BDL-Below Detection Limit

End of Report

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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/GW/04

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Samodi Village

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2403140004/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 10/03/2024

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°21'2" & 74°32'50"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA- 2017	*BDL(<5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-6): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BDL(<5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BDL(<0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BDL(<0.05)	mg/l	0.2	1.0
7	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 23rd Edition,5175/6630 2017	*BDL(<0.01)	mg/l	0.0001	No relaxation
8	Total Pesticides	APHA 23rd Edition-6630, 8141A 2017	*BDL(<0.01)	µg/L	-	-

*BDL-Below Detection Limit

End of Report

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TEST REPORT



VIBRANT

"Experience the unimaginable"
Sample Number : VTL/GW/01

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhiliwara Rajasthan

Sample Description : Water Sample
Sampling Location : Dhulkhera Village
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000000102F
Report No. : VTL/W/2403140001/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 12/03/2024
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°24'7" & 74°35'42"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.24	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BDL(<1.0)	NTU	1	5
3	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	455.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	122.24	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	470.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	299.55	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	36.45	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	1405.60	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	115.21	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.93	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	42.10	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.24	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BDL(<0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BDL(<0.2)	mg/l	0.5	1.0
15	Total Chromium (as Cr)	APHA 23rd Edition 2017 3113 B, 2017	*BDL(<0.02)	mg/l	0.05	No Relaxation
16	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C: 2017	*BDL(<0.001)	mg/l	0.001	0.002
17	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.32	mg/l	5.0	15.0



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TEST REPORT



VIBRANT

"Experience the unimaginable"
Sample Number : VTL/GW/01

ULR No. : TC1122724000000102F

Report No. : VTL/W/2403140001/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BDL(<0.02)	mg/l	0.05	1.5
19	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BDL(<0.05)	mg/l	0.1	0.3
20	Cadmium (as Cd)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.002)	mg/l	0.003	No Relaxation
21	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
22	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
23	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	0.05
24	Mercury (as Hg)	APHA 23rd edition, 3114C 2017	*BDL(<0.001)	mg/l	0.001	No Relaxation
25	Total Coliform	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	Free Residual Chlorine	IS 3025 (P-26):2021	*BDL(<0.2)	mg/l	0.2	1.0
28	Calcium Hardness	IS: 3025 (P-40): 1991 RA 2019	289.99	mg/l	--	--

*BDL-Below Detection Limit

End of Report

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TEST REPORT

VIBRANT

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Sample Number : VTL/GW/01

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Dhulkhera Village

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2403140001/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°24'7" & 74°35'42"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025 (P-4) 1983, RA 2017	*BDL (5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BDL(<5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BDL(<0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BDL(<0.05)	mg/l	0.2	1.0
7	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 23rd Edition,5175/6630 2017	*BDL(<0.01)	mg/l	0.0001	No relaxation
8	Total Pesticides	APHA 23rd Edition-6630, 6141A 2017	*BDL(<0.01)	µg/L	-	-

*BDL-Below Detection Limit

End of Report



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TEST REPORT



VIBRANT

"Experience the unimaginable"
Sample Number : VTL/GW/02

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Suras Village

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

ULR No. : TC1122724000000103F

Report No. : VTL/W/2403140002/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°23'16" & 74°33'40"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.38	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10)1984, RA 2017	*BDL(<1.0)	NTU	1	5
3	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	405.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	120.24	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	400.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	214.29	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	25.51	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	965.00	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	104.85	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.94	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	28.03	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.26	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BDL(<0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BDL(<0.2)	mg/l	0.5	1.0
15	Total Chromium (as Cr)	APHA 23rd Edition 2017 3113 B, 2017	*BDL(<0.02)	mg/l	0.05	No Relaxation
16	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C: 2017	*BDL(<0.001)	mg/l	0.001	0.002
17	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.34	mg/l	5.0	15.0



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TEST REPORT



VIBRANT

"Experience the unimaginable"
Sample Number : VTL/GW/02

ULR No. : TC1122724000000103F

Report No. : VTL/W/2403140002/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BDL(<0.02)	mg/l	0.05	1.5
19	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BDL(<0.05)	mg/l	0.1	0.3
20	Cadmium (as Cd)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.002)	mg/l	0.003	No Relaxation
21	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
22	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
23	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	0.05
24	Mercury (as Hg)	APHA 23rd edition, 3114C 2017	*BDL(<0.001)	mg/l	0.001	No Relaxation
25	Total Coliform	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	Free Residual Chlorine	IS 3025 (P-26):2021	*BDL(<0.2)	mg/l	0.2	1.0
28	Calcium Hardness	IS: 3025 (P-40): 1991 RA 2019	300.00	mg/l	--	--

*BDL-Below Detection Limit

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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/GW/02

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Suras Village

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/M/2403140002/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°23'16" & 74°33'40"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025 (P-4) 1983, :RA 2017	*BDL(<5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BDL(<5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BDL(<0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BDL(<0.05)	mg/l	0.2	1.0
7	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 23rd Edition,5175/6630 2017	*BDL(<0.01)	mg/l	0.0001	No relaxation
8	Total Pesticides	APHA 23rd Edition-6630, 8141A 2017	*BDL(<0.01)	µg/L	-	-

*BDL-Below Detection Limit

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TEST REPORT



VIBRANT

"Experience the unimaginable"

Sample Number : VTL/GW/08

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : BFN Plant - Ground Water

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

ULR No. : TC1122724000000109F

Report No. : VTL/W/2403140008/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°19'6" & 74°32'16"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.28	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BDL(<1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	396.50	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	130.26	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	350.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	129.03	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	17.12	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	773.00	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986; RA 2022	78.96	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.85	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	28.02	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.31	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BDL(<0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BDL(<0.2)	mg/l	0.5	1.0
15	Total Chromium (as Cr)	APHA 23rd Edition 2017 3113 B, 2017	*BDL(<0.02)	mg/l	0.05	No Relaxation
16	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BDL(<0.001)	mg/l	0.001	0.002
17	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.39	mg/l	5.0	15.0



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TEST REPORT

**VIBRANT**Experience the unimaginable
Sample Number : VTL/GW/08

ULR No. : TC1122724000000109F

Report No. : VTL/W/2403140008/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BDL(<0.02)	mg/l	0.05	1.5
19	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BDL(<0.05)	mg/l	0.1	0.3
20	Cadmium (as Cd)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.002)	mg/l	0.003	No Relaxation
21	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
22	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	No Relaxation
23	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l	0.01	0.05
24	Mercury (as Hg)	APHA 23rd edition, 3114C 2017	*BDL(<0.001)	mg/l	0.001	No Relaxation
25	Total Coliform	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Not Detected	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	Free Residual Chlorine	IS 3025 (P-26):2021	*BDL(<0.2)	mg/l	0.2	1.0
28	Calcium Hardness	IS: 3025 (P-40): 1991 RA 2019	326.05	mg/l	--	--

*BDL-Below Detection Limit

End of Report

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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/GW/08

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : BFN Plant - Ground Water

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2403140008/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°19'6" & 74°32'16"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BDL(<5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BDL(<5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BDL(<0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BDL(<0.05)	mg/l	0.2	1.0
7	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 23rd Edition,5175/6630 2017	*BDL(<0.01)	mg/l	0.0001	No relaxation
8	Total Pesticides	APHA 23rd Edition-6630, 8141A 2017	*BDL(<0.01)	µg/L	-	-

*BDL-Below Detection Limit

End of Report

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TEST REPORT



VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/19

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : SURFACE WATER

Sampling Location : Meja Dam

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

ULR No. : TC1122724000000122F

Report No. : VTLW/2403140021/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°24'18" & 74°33'3"

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.56	--
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	2.60	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	485.00	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	78.34	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986, Sec.RA 2022	80.25	mg/l
6	Total Suspended Solids (TSS)	IS: 3025 (P-17) : 2022	6.90	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	125.00	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	30.06	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	12.15	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.78	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	19.47	mg/l
12	Total Coliform	IS 15185: 2016	Present	MPN
13	Total Alkalinity (CaCO3)	IS: 3025 (P-23) :1986,RA 2019	160.00	mg/l
14	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.40	mg/l
15	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.44	mg/l
16	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BDL(<0.02)	mg/l
17	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BDL(<0.05)	mg/l
18	Lead (as Pb)	APHA 23rd Edition, 3030D,3113B, 2017	*BDL(<0.005)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BDL(<0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ML
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BDL(<0.2)	mg/l
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BDL(<0.02)	mg/l



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TEST REPORT



VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/19

ULR No. : TC1122724000000122F

Report No. : VTL/W/2403140021/A

S.No.	Test Parameters	Test Method	Results	Unit
23	Cadmium (as Cd)	APHA 23rd Edition, 3113B, 2017	*BDL(<0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.001)	mg/l
26	Phenolic Compounds	APHA 23rd Edition, 5530C, 2017	*BDL(<0.05)	mg/l
27	Nickel (as Ni)	APHA 23rd Edition, 3030D, 3113B, 2017	*BDL(<0.01)	mg/l

*BDL- Below Detection Limit

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Vibrant Techno Lab Pvt. Ltd.

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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/19

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhadwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : SURFACE WATER

Sampling Location : Meja Dam

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2403140021/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°24'18" & 74°33'3"

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BDL(<5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Taste	IS : 3025 (P-8) : 1984 RA 2017	Agreeable	--
4	Phosphorus (P)	IS : 3025 (P-31) : 1988, RA 2022	1.00	mg/l
5	Potassium (as K)	APHA 23rd Edition, 3030D, 3113B, 2017	16.50	mg/l
6	Residual Free Chlorine (RFC)	IS : 3025 (P-26) : 2021	0.29	mg/l
7	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BDL(<0.02)	mg/l
8	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BDL(<0.03)	mg/l
9	Total Pesticides	APHA 23rd Edition, 3111B, 2017	*BDL(<0.01)	mg/l
10	Calcium Hardness (as CaCO ₃)	IS : 3025 (P-40) : 1991 RA 2019	75.02	mg/l
11	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BDL(<0.02)	mg/l
12	Mineral Oil	IS : 3025 (P-39) 1989	*BDL(<0.05)	mg/l

*BDL- Below Detection Limit

End of Report

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TEST REPORT



VIBRANT

"Experience the unimaginable"
Sample Number : VTL/SW/20

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : SURFACE WATER
Sampling Location : Samodi Pond
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC112272400000123F
Report No. : VTL/W/2403140022/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 12/03/2024
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°21'2" & 74°32'50"

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.93	--
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	5.00	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	646.60	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	138.25	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986, Sec.RA 2022	55.56	mg/l
6	Total Suspended Solids (TSS)	IS: 3025 (P-17) : 2022	*BDL(<5.0)	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	240.00	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	66.13	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	18.23	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.88	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	21.32	mg/l
12	Total Coliform	IS 15185: 2016	Present	MPN
13	Total Alkalinity (CaCO3)	IS: 3025 (P-23) :1986, RA 2019	275.00	mg/l
14	Iron (as Fe)	APHA 23rd Edition, 3111B, 2017	0.56	mg/l
15	Zinc (as Zn)	APHA 23rd Edition, 3030D, 3113B, 2017	0.76	mg/l
16	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BDL(<0.02)	mg/l
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3113B, 2017	*BDL(<0.05)	mg/l
18	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113B, 2017	*BDL(<0.005)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D, 3114C, 2017	*BDL(<0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ML
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BDL(<0.2)	mg/l
22	Chromium (as Cr)	APHA 23rd Edition, 3113B, 2017	*BDL(<0.02)	mg/l



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**VIBRANT***"Experience the unimaginable"*

Sample Number : VTL/SW/20

TEST REPORT

TC-11227

ULR No. : TC1122724000000123F

Report No. : VTL/W/2403140022/A

S.No.	Test Parameters	Test Method	Results	Unit
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BDL(<0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BDL(<0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BDL(<0.001)	mg/l
26	Phenolic Compounds	APHA 23rd Edition,5530C, 2017	*BDL(<0.05)	mg/l
27	Nickel (as Ni)	APHA 23rd Edition ,3030D, 3113B, 2017	*BDL(<0.01)	mg/l

*BDL- Below Detection Limit

End of Report

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TEST REPORT

VIBRANT

Experience the unimaginable

Sample Number : VTL/SW/20

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhitwara Rajasthan

Sample Description : SURFACE WATER

Sampling Location : Samodi Pond

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2403140022/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°21'2" & 74°32'50"

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BDL(<5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Taste	IS : 3025 (P-8) : 1984 RA 2017	Agreeable	--
4	Phosphorus (P)	IS : 3025 (P-31) : 1988, RA 2022	1.17	mg/l
5	Potassium (as K)	APHA 23rd Edition, 3030D, 3113B, 2017	15.12	mg/l
6	Residual Free Chlorine (RFC)	IS : 3025 (P-26) : 2021	*BDL(<0.2)	mg/l
7	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BDL(<0.02)	mg/l
8	Aluminium (as Al)	IS : 3025 : (P-55) : 2003, RA 2019	*BDL(<0.03)	mg/l
9	Total Pesticides	APHA 23rd Edition, 3111B, 2017	*BDL(<0.01)	mg/l
10	Calcium Hardness (as CaCO ₃)	IS : 3025 (P-40) : 1991 RA 2019	164.99	mg/l
11	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BDL(<0.02)	mg/l
12	Mineral Oil	IS : 3025 (P-39) 1989	*BDL(<0.05)	mg/l

*BDL- Below Detection Limit

End of Report

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TEST REPORT

**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/SW/18

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : SURFACE WATER

Sampling Location : Kothari River

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

ULR No. : TC1122724000000121F

Report No. : VTL/W/2403140020/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°23'49" & 74°33'16"

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	8.03	--
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	4.90	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	547.00	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	124.42	mg/l
5	Sulphate as (SO ₄)	IS: 3025 (P- 24) : 1986, Sec. RA 2022	61.73	mg/l
6	Total Suspended Solids (TSS)	IS: 3025 (P-17) : 2022	*BDL(<5.0)	mg/l
7	Total Hardness (CaCO ₃)	IS: 3025 (P- 21) : 2009, RA 2019	275.00	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	60.12	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	30.38	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.84	mg/l
11	Nitrate (as NO ₃)	IS: 3025 (P- 34) : 1988 RA 2022	30.26	mg/l
12	Total Coliform	IS 15185: 2016	Present	MPN
13	Total Alkalinity (CaCO ₃)	IS: 3025 (P-23) :1986, RA 2019	210.00	mg/l
14	Iron (as Fe)	APHA 23rd Edition, 3111B, 2017	0.52	mg/l
15	Zinc (as Zn)	APHA 23rd Edition, 3030D, 3113B, 2017	0.71	mg/l
16	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BDL(<0.02)	mg/l
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3113B, 2017	*BDL(<0.05)	mg/l
18	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113B, 2017	*BDL(<0.005)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D, 3114C, 2017	*BDL(<0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ML
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BDL(<0.2)	mg/l
22	Chromium (as Cr)	APHA 23rd Edition, 3113B, 2017	*BDL(<0.02)	mg/l



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TEST REPORT



TC-11227

VIBRANT

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Sample Number : VTL/SW/18

ULR No. : TC1122724000000121F

Report No. : VTLW/2403140020/A

S.No.	Test Parameters	Test Method	Results	Unit
23	Cadmium (as Cd)	APHA 23rd Edition, 3113B, 2017	*BDL(<0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.001)	mg/l
26	Phenolic Compounds	APHA 23rd Edition, 5530C, 2017	*BDL(<0.05)	mg/l
27	Nickel (as Ni)	APHA 23rd Edition, 3030D, 3113B, 2017	*BDL(<0.01)	mg/l

*BDL- Below Detection Limit

End of Report



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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/18

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : SURFACE WATER

Sampling Location : Kothari River

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2403140020/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°23'49" & 74°33'16"

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BDL(<5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Taste	IS : 3025 (P-8) : 1984 RA 2017	Agreeable	--
4	Phosphorus (P)	IS : 3025 (P-31) :1988, RA 2022	0.93	mg/l
5	Potassium (as K)	APHA 23rd Edition, 3030D,3113B, 2017	18.62	mg/l
6	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BDL(<0.2)	mg/l
7	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BDL(<0.02)	mg/l
8	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BDL(<0.03)	mg/l
9	Total Pesticides	APHA 23rd Edition ,3111B, 2017	*BDL(<0.01)	mg/l
10	Calcium Hardness (as CaCO ₃)	IS: 3025 (P-40) : 1991 RA 2019	150.00	mg/l
11	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BDL(<0.02)	mg/l
12	Mineral Oil	IS : 3025 (P-39) 1989	*BDL(<0.05)	mg/l

*BDL- Below Detection Limit

End of Report

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TEST REPORT



VIBRANT

"Experience the Unimaginable"
Sample Number: VTLWQP/01

M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05) Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Name & Address of the Party :

Sample Description : SURFACE WATER

Sampling Location : Tailing Filter Recycling Water

Sample Collected By : VTL Team

Coordinates : 25°21'2" & 74°32'50"

ULR No. : TC112272400000124F
Report No. : VTL/W/2403140023/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 11/03/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
1	Colour	IS: 13025 (P-4): 2021	*BDL(<5.0)	Hazen	Colourless
2	pH	IS: 3025 (P-11): 2022	7.09	-	5.5 to 9.0
3	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	21.00	mg/l	100
4	Total Dissolved Solids (TDS)	IS:3025 (P-16): 1984, RA 2017	1238.00	mg/l	2100
5	Oil & Grease	IS:3025 (P-39): 2021	*BDL(<4.0)	mg/l	10
6	Residual Chlorine	IS: 3025 (P-26): 2021	0.47	mg/l	1
7	Ammonical Nitrogen (as NH ₃ -N)	IS: 3025 (P-34) : 1988, Sec.4 RA: 2022	2.80	mg/l	50
8	Total Kjeldahl Nitrogen (as NH ₃)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	17.64	mg/l	100
9	Nitrate Nitrogen (as NO ₃)	IS: 3025 (P-34): 1988, (Chromotropic Method) Sec.RA:2022	14.34	mg/l	--
10	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	8.40	mg/l	30
11	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	38.88	mg/l	250
12	Lead (as Pb)	APHA 23rd Edition-3030 D, 3113 B, 2017	*BDL(<0.1)	mg/l	0.1
13	Copper (as Cu)	APHA 23rd Edition -3111B, 2017	*BDL(<0.1)	mg/l	3
14	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.2)	mg/l	5
15	Nickel (as Ni)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l	3
16	Fluoride (as F)	APHA 23rd Edition, 4500FD, 2017	0.78	mg/l	2
17	Arsenic (as As)	APHA 23rd Edition-3114C, 2017	*BDL(<0.05)	mg/l	0.2
18	Mercury (as Hg)	APHA 23rd Edition-3114 C, 2017	*BDL(<0.05)	mg/l	0.01
19	Cadmium (as Cd)	APHA 23rd edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l	2.0
20	Selenium (as Se)	APHA 23rd Edition- 3114 C, 2017	*BDL(<0.05)	mg/l	0.05
21	Phenolic Compounds (as C ₆ H ₅ OH)	APHA 23rd Edition 5530C, 2017	*BDL(<0.1)	mg/l	1



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TEST REPORT



VIBRANT

"Experience the unimaginable"

Sample Number : VTL/WQP/01

ULR No. : TC1122724000000124F

Report No. : VTL/W/2403140023/A

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
22	Iron (as Fe)	APHA 23RD Edition 3111 B, 2017	0.72	mg/l	3
23	Manganese (as Mn)	APHA 23rd Edition 3030D, 3111 B, 2017	*BDL(<0.1)	mg/l	2
24	Dissolved Oxygen	IS : 3025 (P-38) : 1989, RA 2019	4.33	mg/l	—
25	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BDL(<0.1)	mg/l	2

*BDL-Below Detection Limit

End of Report



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TEST REPORT

VIBRANT

Sample Number : VTLW/QP/01

M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Name & Address of the Party :

Sample Description :

SURFACE WATER

Sampling Location :

Tailing Filter Recycling Water

Sample Collected By :

VTL Team

Coordinates :

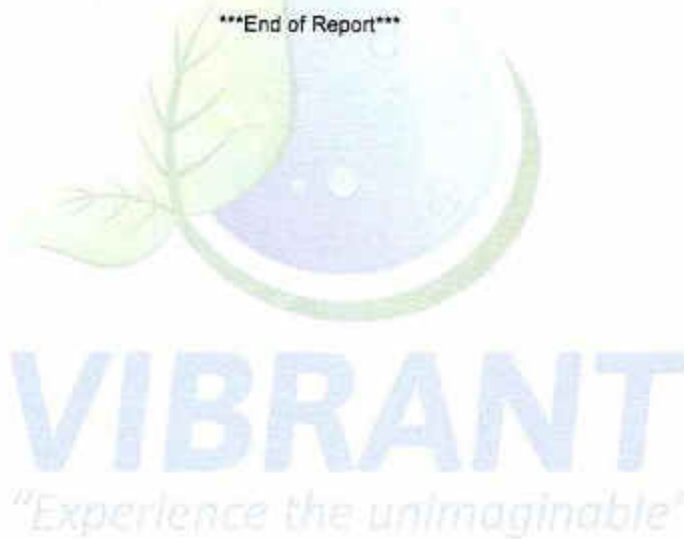
25°21'2" & 74°32'50"

Report No. : VTLW/2403140023/B
Format No. : 7.8 F-01
Party Reference No. : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 11/03/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
1	Free Ammonia (as NH ₃)	IS: 3025 (P-34) : 1988, Titrimetric Method, RA:2019	1.12	mg/l	5
2	Phosphate (as PO ₄)	IS:3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022	0.79	mg/l	5
3	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA. 2019 Turbidity Method	67.96	mg/l	—
4	Cyanide (as CN)	APHA 23rd Edition- 4500 CN-E, 2017	*BDL(<0.02)	mg/l	0.2

*BDL-Below Detection Limit

End of Report



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TEST REPORT



VIBRANT

Sample Number : VTL/WQP/02

M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Name & Address of the Party :

Sample Description : SURFACE WATER

Sampling Location : Tailing Pond

Sample Collected By : VTL Team

Coordinates : 25°19'20" & 74°32'18"

ULR No. : TC1122724000000125F
Report No. : VTL/W/2403140024/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 08/03/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
1	Colour	IS: 13025 (P-4) : 2021	*BDL(<5.0)	Hazen	Colourless
2	pH	IS: 3025 (P-11): 2022	7.73	-	5.5 to 9.0
3	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	17.30	mg/l	100
4	Total Dissolved Solids (TDS)	IS:3025 (P-16): 1984, RA 2017	918.00	mg/l	2100
5	Oil & Grease	IS:3025 (P-39): 2021	*BDL(<4.0)	mg/l	10
6	Residual Chlorine	IS: 3025 (P-26): 2021	0.24	mg/l	1
7	Ammonical Nitrogen (as NH ₃ -N)	IS: 3025 (P-34) : 1988, Sec.4 RA: 2022	1.40	mg/l	50
8	Total Kjeldahl Nitrogen (as NH ₃)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	8.12	mg/l	100
9	Nitrate Nitrogen (as NO ₃)	IS: 3025 (P-34): 1988, (Chromotropic Method) Sec.RA:2022	23.68	mg/l	--
10	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	13.20	mg/l	30
11	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	58.32	mg/l	250
12	Lead (as Pb)	APHA 23rd Edition-3030 D, 3113 B, 2017	*BDL(<0.1)	mg/l	0.1
13	Copper (as Cu)	APHA 23rd Edition -3111B, 2017	*BDL(<0.1)	mg/l	3
14	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.2)	mg/l	5
15	Nickel (as Ni)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l	3
16	Fluoride (as F)	APHA 23rd Edition, 4500FD, 2017	0.88	mg/l	2
17	Arsenic (as As)	APHA 23rd Edition-3114C, 2017	*BDL(<0.05)	mg/l	0.2
18	Mercury (as Hg)	APHA 23rd Edition-3114 C, 2017	*BDL(<0.05)	mg/l	0.01
19	Cadmium (as Cd)	APHA 23rd edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l	2.0
20	Selenium (as Se)	APHA 23rd Edition- 3114 C , 2017	*BDL(<0.05)	mg/l	0.05
21	Phenolic Compounds (as C ₆ H ₅ OH)	APHA 23rd Edition 5530C, 2017	*BDL(<0.1)	mg/l	1



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TEST REPORT



VIBRANT

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Sample Number: VTL/WQP/02

ULR No. : TC1122724000000125F

Report No. : VTL/W/2403140024/A

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
22	Iron (as Fe)	APHA 23RD Edition 3111 B, 2017	0.65	mg/l	3
23	Manganese (as Mn)	APHA 23rd Edition 3030D, 3111 B, 2017	*BDL(<0.1)	mg/l	2
24	Dissolved Oxygen	IS : 3025 (P-38) : 1989, RA 2019	3.60	mg/l	--
25	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BDL(<0.1)	mg/l	2

*BDL-Below Detection Limit

End of Report



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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/WQP/02

M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-

Name & Address of the Party : Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : SURFACE WATER

Sampling Location : Tailing Pond

Sample Collected By : VTL Team

Coordinates : 25°19'20" & 74°32'18"

Report No. : VTL/W/2403140024/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

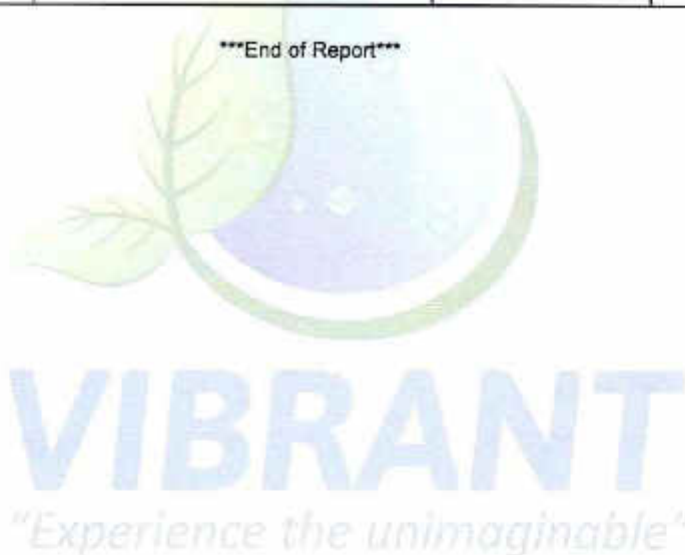
Sampling Date : 08/03/2024

Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
1	Free Ammonia (as NH ₃)	IS: 3025 (P-34) : 1988, Titrimetric Method, RA:2019	0.59	mg/l	5
2	Phosphate (as PO ₄)	IS:3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022	0.83	mg/l	5
3	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA. 2019 Turbidity Method	68.79	mg/l	--
4	Cyanide (as CN)	APHA 23rd Edition- 4500 CN-E, 2017	*BDL(<5.0)	mg/l	0.2

*BDL-Below Detection Limit

End of Report



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TEST REPORT



VIBRANT

"Experience the unimaginable"

Sample Number: VTL/WQP/03

M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Name & Address of the Party :

Sample Description

: SURFACE WATER

Sampling Location

: STP Incoming / Reservoir Water

Sample Collected By

: VTL Team

Coordinates

: 25°19'34" & 74°32'38"

ULR No. : TC1122724000000126F
Report No. : VTL/W/2403140025/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 11/03/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
1	Colour	IS: 13025 (P-4): 2021	6.20	Hazen	Colourless
2	pH	IS: 3025 (P-11): 2022	7.42	-	5.5 to 9.0
3	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	42.10	mg/l	100
4	Total Dissolved Solids (TDS)	IS:3025 (P-16): 1984, RA 2017	1114.00	mg/l	2100
5	Oil & Grease	IS:3025 (P-39): 2021	*BDL(<4.0)	mg/l	10
6	Residual Chlorine	IS: 3025 (P-26): 2021	0.47	mg/l	1
7	Ammonical Nitrogen (as NH ₃ -N)	IS: 3025 (P-34) : 1988, Sec.4 RA: 2022	4.48	mg/l	50
8	Total Kjeldahl Nitrogen (as NH ₃)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	8.51	mg/l	100
9	Nitrate Nitrogen (as NO ₃)	IS: 3025 (P-34): 1988, (Chromotropic Method) Sec.RA:2022	17.10	mg/l	--
10	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	10.80	mg/l	30
11	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	45.36	mg/l	250
12	Lead (as Pb)	APHA 23rd Edition-3030 D, 3113 B, 2017	*BDL(<0.1)	mg/l	0.1
13	Copper (as Cu)	APHA 23rd Edition -3111B, 2017	*BDL(<0.1)	mg/l	3
14	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.2)	mg/l	5
15	Nickel (as Ni)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l	3
16	Fluoride (as F)	APHA 23rd Edition, 4500FD, 2017	0.82	mg/l	2
17	Arsenic (as As)	APHA 23rd Edition-3114C, 2017	*BDL(<0.05)	mg/l	0.2
18	Mercury (as Hg)	APHA 23rd Edition-3114 C, 2017	*BDL(<0.05)	mg/l	0.01
19	Cadmium (as Cd)	APHA 23rd edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l	2.0
20	Selenium (as Se)	APHA 23rd Edition- 3114 C , 2017	*BDL(<0.05)	mg/l	0.05
21	Phenolic Compounds (as C ₆ H ₅ OH)	APHA 23rd Edition 5530C, 2017	*BDL(<0.1)	mg/l	1



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TEST REPORT



VIBRANT

"Experience the unimaginable"
Sample Number : VTL/WQP/03

ULR No. : TC1122724000000126F

Report No. : VTL/W/2403140025/A

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
22	Iron (as Fe)	APHA 23RD Edition 3111 B, 2017	0.80	mg/l	3
23	Manganese (as Mn)	APHA 23rd Edition 3030D, 3111 B, 2017	*BDL(<0.1)	mg/l	2
24	Dissolved Oxygen	IS : 3025 (P-38) : 1989, RA 2019	3.93	mg/l	--
25	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BDL(<0.1)	mg/l	2

*BDL-Below Detection Limit

End of Report



VIBRANT

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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/WQP/03

M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-

Name & Address of the Party : Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : SURFACE WATER

Sampling Location : STP Incoming / Reservoir Water

Sample Collected By : VTL Team

Coordinates : 25°19'34" & 74°32'38"

Report No. : VTL/W/2403140025/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

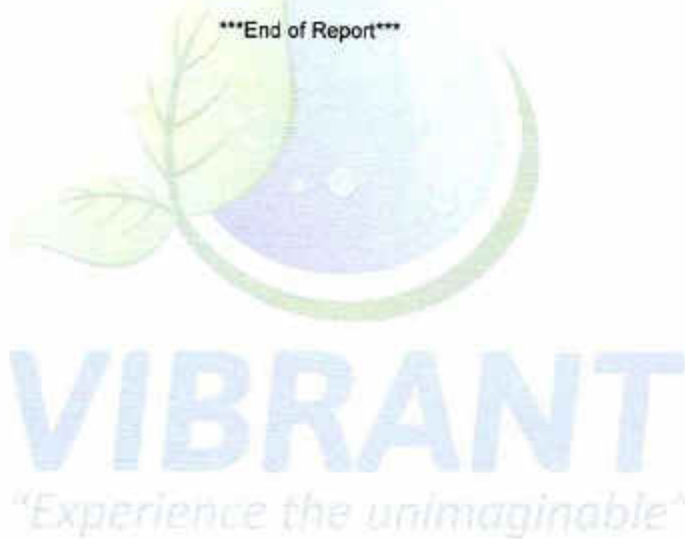
Sampling Date : 11/03/2024

Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
1	Free Ammonia (as NH ₃)	IS: 3025 (P-34) : 1988, Titrimetric Method, RA:2019	0.56	mg/l	5
2	Phosphate (as PO ₄)	IS:3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022	0.85	mg/l	5
3	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA. 2019 Turbidity Method	53.92	mg/l	--
4	Cyanide (as CN)	APHA 23rd Edition- 4500 CN-E, 2017	*BDL(<5.0)	mg/l	0.2

*BDL-Below Detection Limit

End of Report



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Sample Number: VTL/WQP/04

M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Name & Address of the Party

Sample Description : SURFACE WATER

Sampling Location : Silt Arresting Tank

Sample Collected By : VTL Team

Coordinates : 25°18'58" & 74°32'24"

ULR No. : TC1122724000000127F
Report No. : VTL/W/2403140026/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 11/03/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
1	Colour	IS: 13025 (P-4) : 2021	*BDL(<5.0)	Hazen	Colourless
2	pH	IS: 3025 (P-11) : 2022	7.85	-	5.5 to 9.0
3	Total Suspended Solids (TSS)	IS: 3025 (P-17) : 2022	13.30	mg/l	100
4	Total Dissolved Solids (TDS)	IS: 3025 (P-16) : 1984, RA 2017	874.00	mg/l	2100
5	Oil & Grease	IS: 3025 (P-39) : 2021	*BDL(<4.0)	mg/l	10
6	Residual Chlorine	IS: 3025 (P-26) : 2021	0.34	mg/l	1
7	Ammonical Nitrogen (as NH ₃ -N)	IS: 3025 (P-34) : 1988, Sec.4 RA: 2022	2.24	mg/l	50
8	Total Kjeldahl Nitrogen (as NH ₃)	IS: 3025 (P-34) : 1988, RA 2022 (Macro Kjeldahl Method)	18.40	mg/l	100
9	Nitrate Nitrogen (as NO ₃)	IS: 3025 (P-34) : 1988, (Chromotropic Method) Sec.RA:2022	14.47	mg/l	-
10	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44) : 1993, RA: 2019	9.60	mg/l	30
11	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	38.88	mg/l	250
12	Lead (as Pb)	APHA 23rd Edition-3030 D, 3113 B, 2017	*BDL(<0.1)	mg/l	0.1
13	Copper (as Cu)	APHA 23rd Edition -3111B, 2017	*BDL(<0.1)	mg/l	3
14	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.2)	mg/l	5
15	Nickel (as Ni)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l	3
16	Fluoride (as F)	APHA 23rd Edition, 4500FD, 2017	0.56	mg/l	2
17	Arsenic (as As)	APHA 23rd Edition-3114C, 2017	*BDL(<0.05)	mg/l	0.2
18	Mercury (as Hg)	APHA 23rd Edition-3114 C, 2017	*BDL(<0.05)	mg/l	0.01
19	Cadmium (as Cd)	APHA 23rd edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l	2.0
20	Selenium (as Se)	APHA 23rd Edition- 3114 C, 2017	*BDL(<0.05)	mg/l	0.05
21	Phenolic Compounds (as C ₆ H ₅ OH)	APHA 23rd Edition 5530C, 2017	*BDL(<0.1)	mg/l	1



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TEST REPORT



VIBRANT

"Experience the unimaginable"

Sample Number : VTL/WQP/04

ULR No. : TC1122724000000127F

Report No. : VTL/W/2403140026/A

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
22	Iron (as Fe)	APHA 23RD Edition 3111 B, 2017	0.50	mg/l	3
23	Manganese (as Mn)	APHA 23rd Edition 3030D, 3111 B, 2017	*BDL(<0.1)	mg/l	2
24	Dissolved Oxygen	IS : 3025 (P-38) : 1989, RA 2019	3.73	mg/l	--
25	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BDL(<0.1)	mg/l	2

*BDL-Below Detection Limit

End of Report



VIBRANT

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TEST REPORT

VIBRANT

Sample Number : VTL/WQP/04

M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Name & Address of the Party

Sample Description : SURFACE WATER

Sampling Location : Silt Arresting Tank

Sample Collected By : VTL Team

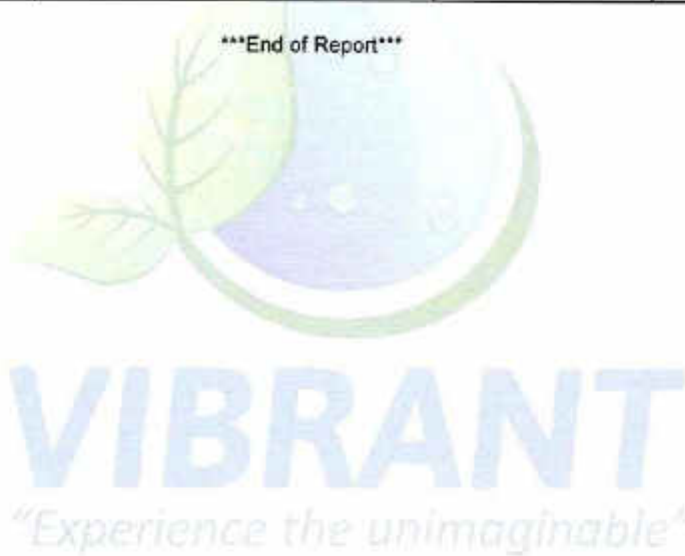
Coordinates : 25°18'58" & 74°32'24"

Report No. : VTL/W/2403140025/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 11/03/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
1	Free Ammonia (as NH ₃)	IS: 3025 (P-34) : 1988, Titrimetric Method, RA:2019	0.56	mg/l	5
2	Phosphate (as PO ₄)	IS:3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022	0.60	mg/l	5
3	Sulphate (as SO ₄)	IS: 3025 (P-24): 1988, RA. 2019 Turbidity Method	63.72	mg/l	--
4	Cyanide (as CN)	APHA 23rd Edition- 4500 CN-E, 2017	*BDL(<5.0)	mg/l	0.2

*BDL-Below Detection Limit

End of Report



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TEST REPORT



VIBRANT

Sample Number: VTL/WQP/05

M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05) Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Name & Address of the Party

Sample Description

: SURFACE WATER

Sampling Location

: BFN Recycling Water

Sample Collected By

: VTL Team

Coordinates

: 25°19'10" & 74°32'18"

ULR No. : TC112272400000128F
Report No. : VTL/W/2403140027/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 12/03/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
1	Colour	IS: 13025 (P-4): 2021	7.23	Hazen	Colourless
2	pH	IS: 3025 (P-11): 2022	7.35	-	5.5 to 9.0
3	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	41.00	mg/l	100
4	Total Dissolved Solids (TDS)	IS:3025 (P-16): 1984, RA 2017	1014.00	mg/l	2100
5	Oil & Grease	IS:3025 (P-39): 2021	*BDL(<4.0)	mg/l	10
6	Residual Chlorine	IS: 3025 (P-26): 2021	0.57	mg/l	1
7	Ammonical Nitrogen (as NH ₃ -N)	IS: 3025 (P-34) : 1988, Sec.4 RA: 2022	3.36	mg/l	50
8	Total Kjeldahl Nitrogen (as NH ₃)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	8.96	mg/l	100
9	Nitrate Nitrogen (as NO ₃)	IS: 3025 (P-34): 1988, (Chromotropic Method) Sec.RA:2022	19.74	mg/l	--
10	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	12.00	mg/l	30
11	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	51.84	mg/l	250
12	Lead (as Pb)	APHA 23rd Edition-3030 D, 3113 B, 2017	*BDL(<0.1)	mg/l	0.1
13	Copper (as Cu)	APHA 23rd Edition -3111B, 2017	*BDL(<0.1)	mg/l	3
14	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.2)	mg/l	5
15	Nickel (as Ni)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l	3
16	Fluoride (as F)	APHA 23rd Edition, 4500FD, 2017	0.62	mg/l	2
17	Arsenic (as As)	APHA 23rd Edition-3114C, 2017	*BDL(<0.05)	mg/l	0.2
18	Mercury (as Hg)	APHA 23rd Edition-3114 C, 2017	*BDL(<0.05)	mg/l	0.01
19	Cadmium (as Cd)	APHA 23rd edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l	2.0
20	Selenium (as Se)	APHA 23rd Edition- 3114 C , 2017	*BDL(<0.05)	mg/l	0.05
21	Phenolic Compounds (as C ₆ H ₅ OH)	APHA 23rd Edition 5530C, 2017	*BDL(<0.1)	mg/l	1



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TEST REPORT



TC-11227

VIBRANT

"Experience the unimaginable"
Sample Number : VTL/WQP/05

ULR No. : TC1122724000000128F

Report No. : VTL/W/2403140027/A

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
22	Iron (as Fe)	APHA 23RD Edition 3111 B, 2017	0.52	mg/l	3
23	Manganese (as Mn)	APHA 23rd Edition 3030D, 3111 B, 2017	*BDL(<0.1)	mg/l	2
24	Dissolved Oxygen	IS : 3025 (P-38) : 1989, RA 2019	3.40	mg/l	--
25	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BDL(<0.1)	mg/l	2

*BDL-Below Detection Limit

End of Report



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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/WQP/05

M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Name & Address of the Party :

Sample Description : SURFACE WATER

Sampling Location : BFN Recycling Water

Sample Collected By : VTL Team

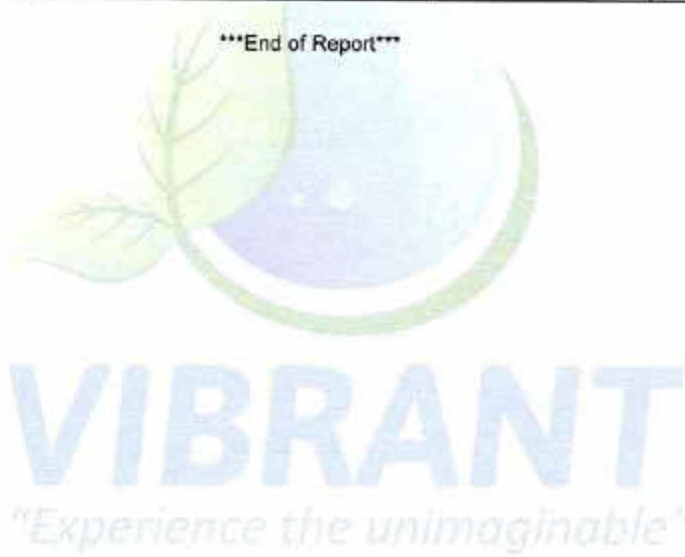
Coordinates : 25°19'10" & 74°32'18"

Report No. : VTL/W/2403140027/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 12/03/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
1	Free Ammonia (as NH ₃)	IS: 3025 (P-34) : 1988, Titrimetric Method, RA:2019	0.28	mg/l	5
2	Phosphate (as PO ₄)	IS:3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022	0.64	mg/l	5
3	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA. 2019 Turbidity Method	50.65	mg/l	--
4	Cyanide (as CN)	APHA 23rd Edition- 4500 CN-E, 2017	*BDL(<5.0)	mg/l	0.2

*BDL-Below Detection Limit

End of Report



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**VIBRANT**

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Sample Number : VTL/SW/15

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : SURFACE WATER

Sampling Location : Tiranga Pit

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

TEST REPORT

ULR No. : TC1122724000000118F

Report No. : VTL/W/2403140017/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 08/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°19'10" & 74°31'47"

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.41	--
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	*BDL(<1.0)	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	1547.00	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	447.02	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986,Sec.RA 2022	152.78	mg/l
6	Total Suspended Solids (TSS)	IS: 3025 (P-17) : 2022	*BDL(<5.0)	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	522.50	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	124.25	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	51.62	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.99	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	28.42	mg/l
12	Total Coliform	IS 15185; 2016	Present	MPN
13	Total Alkalinity (CaCO3)	IS: 3025 (P-23) :1986,RA 2019	510.00	mg/l
14	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.65	mg/l
15	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.86	mg/l
16	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BDL(<0.02)	mg/l
17	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BDL(<0.05)	mg/l
18	Lead (as Pb)	APHA 23rd Edition, 3030D,3113B, 2017	*BDL(<0.005)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BDL(<0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ML
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BDL(<0.2)	mg/l
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BDL(<0.02)	mg/l



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TEST REPORT



VIBRANT

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Sample Number : VTL/SW/15

ULR No. : TC1122724000000118F

Report No. : VTL/W/2403140017/A

S.No.	Test Parameters	Test Method	Results	Unit
23	Cadmium (as Cd)	APHA 23rd Edition,3113B,2017	*BDL(<0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BDL(<0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BDL(<0.001)	mg/l
26	Phenolic Compounds	APHA 23rd Edition,5530C, 2017	*BDL(<0.05)	mg/l
27	Nickel (as Ni)	APHA 23rd Edition ,3030D, 3113B, 2017	*BDL(<0.01)	mg/l

*BDL- Below Detection Limit

End of Report



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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/15

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : SURFACE WATER

Sampling Location : Tiranga Pit

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2403140017/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 08/03/2024

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°19'10" & 74°31'47"

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BDL(<5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Taste	IS : 3025 (P-8) : 1984 RA 2017	Agreeable	--
4	Phosphorus (P)	IS : 3025 (P-31) :1988, RA 2022	1.70	mg/l
5	Potassium (as K)	APHA 23rd Edition, 3030D,3113B, 2017	17.62	mg/l
6	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BDL(<0.2)	mg/l
7	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BDL(<0.02)	mg/l
8	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BDL(<0.03)	mg/l
9	Total Pesticides	APHA 23rd Edition, 3111B, 2017	*BDL(<0.01)	mg/l
10	Calcium Hardness (as CaCO ₃)	IS : 3025 (P-40) : 1991 RA 2019	310.08	mg/l
11	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BDL(<0.02)	mg/l
12	Mineral Oil	IS : 3025 (P-39) 1989	*BDL(<0.05)	mg/l

*BDL- Below Detection Limit

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TEST REPORT



VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/16

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : SURFACE WATER

Sampling Location : Dhulkhera Pit

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

ULR No. : TC1122724000000119F

Report No. : VTL/W/2403140018/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°23'47" & 74°34'41"

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.88	—
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	*BDL(<1.0)	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	1427.00	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	405.55	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986, Sec. RA 2022	145.06	mg/l
6	Total Suspended Solids (TSS)	IS: 3025 (P-17) : 2022	*BDL(<5.0)	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	490.00	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	124.25	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	43.72	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.96	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	32.63	mg/l
12	Total Coliform	IS 15185: 2016	Present	MPN
13	Total Alkalinity (CaCO3)	IS: 3025 (P-23) :1986, RA 2019	510.00	mg/l
14	Iron (as Fe)	APHA 23rd Edition, 3111B, 2017	0.74	mg/l
15	Zinc (as Zn)	APHA 23rd Edition, 3030D, 3113B, 2017	0.90	mg/l
16	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BDL(<0.02)	mg/l
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3113B, 2017	*BDL(<0.05)	mg/l
18	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113B, 2017	*BDL(<0.005)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D, 3114C, 2017	*BDL(<0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ML
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BDL(<0.2)	mg/l
22	Chromium (as Cr)	APHA 23rd Edition, 3113B, 2017	*BDL(<0.02)	mg/l



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**VIBRANT***"Experience the unimaginable"*

Sample Number : VTL/SW/16

TEST REPORT

ULR No. : TC1122724000000119F

Report No. : VTL/W/2403140018/A

S.No.	Test Parameters	Test Method	Results	Unit
23	Cadmium (as Cd)	APHA 23rd Edition, 3113B, 2017	*BDL(<0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition, 3114C, 2017	*BDL(<0.001)	mg/l
26	Phenolic Compounds	APHA 23rd Edition, 5530C, 2017	*BDL(<0.05)	mg/l
27	Nickel (as Ni)	APHA 23rd Edition, 3030D, 3113B, 2017	*BDL(<0.01)	mg/l

*BDL- Below Detection Limit

End of Report

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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/16

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : SURFACE WATER

Sampling Location : Dhulkhera Pit

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2403140018/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°23'47" & 74°34'41"

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BDL(<5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Taste	IS : 3025 (P-8) : 1984 RA 2017	Agreeable	--
4	Phosphorus (P)	IS : 3025 (P-31) :1988, RA 2022	1.74	mg/l
5	Potassium (as K)	APHA 23rd Edition, 3030D,3113B, 2017	15.12	mg/l
6	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BDL(<0.2)	mg/l
7	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BDL(<0.02)	mg/l
8	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BDL(<0.03)	mg/l
9	Total Pesticides	APHA 23rd Edition, 3111B, 2017	*BDL(<0.01)	mg/l
10	Calcium Hardness (as CaCO ₃)	IS: 3025 (P-40) : 1991 RA 2019	310.01	mg/l
11	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BDL(<0.02)	mg/l
12	Mineral Oil	IS : 3025 (P-39) 1989	*BDL(<0.05)	mg/l

*BDL- Below Detection Limit

End of Report

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TEST REPORT



VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/17

Name & Address of the Party : M/S Jindal Saw Ltd.

Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : SURFACE WATER

Sampling Location : Suras Pit

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

ULR No. : TC1122724000000120F

Report No. : VTL/W/2403140019/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°23'30" & 74°34'7"

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.72	--
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	*BDL(<1.0)	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	1157.00	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	262.68	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986, Sec.RA 2022	100.31	mg/l
6	Total Suspended Solids (TSS)	IS: 3025 (P-17) : 2022	*BDL(<5.0)	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	375.00	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	94.19	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	34.02	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.93	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	28.68	mg/l
12	Total Coliform	IS 15185; 2016	Present	MPN
13	Total Alkalinity (CaCO3)	IS: 3025 (P-23) :1986,RA 2019	360.00	mg/l
14	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.61	mg/l
15	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.81	mg/l
16	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BDL(<0.02)	mg/l
17	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BDL(<0.05)	mg/l
18	Lead (as Pb)	APHA 23rd Edition, 3030D,3113B, 2017	*BDL(<0.005)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BDL(<0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ML
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BDL(<0.2)	mg/l
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BDL(<0.02)	mg/l



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TEST REPORT



VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/17

ULR No. : TC1122724000000120F

Report No. : VTL/W/2403140019/A

S.No.	Test Parameters	Test Method	Results	Unit
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BDL(<0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BDL(<0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BDL(<0.001)	mg/l
26	Phenolic Compounds	APHA 23rd Edition,5530C, 2017	*BDL(<0.05)	mg/l
27	Nickel (as Ni)	APHA 23rd Edition ,3030D, 3113B, 2017	*BDL(<0.01)	mg/l

*BDL- Below Detection Limit

End of Report



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TEST REPORT

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Sample Number : VTL/SW/17

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : SURFACE WATER

Sampling Location : Suras Pit

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2403140019/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

Period of Analysis : 14/03/2024-19/03/2024

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°23'30" & 74°34'7"

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BDL(<5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Taste	IS : 3025 (P-8) : 1984 RA 2017	Agreeable	--
4	Phosphorus (P)	IS : 3025 (P-31) : 1988, RA 2022	1.26	mg/l
5	Potassium (as K)	APHA 23rd Edition, 3030D, 3113B, 2017	19.00	mg/l
6	Residual Free Chlorine (RFC)	IS : 3025 (P-26) : 2021	*BDL(<0.2)	mg/l
7	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BDL(<0.02)	mg/l
8	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BDL(<0.03)	mg/l
9	Total Pesticides	APHA 23rd Edition, 3111B, 2017	*BDL(<0.01)	mg/l
10	Calcium Hardness (as CaCO ₃)	IS : 3025 (P-40) : 1991 RA 2019	235.00	mg/l
11	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BDL(<0.02)	mg/l
12	Mineral Oil	IS : 3025 (P-39) 1989	*BDL(<0.05)	mg/l

*BDL- Below Detection Limit

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TEST REPORT

TC-11227

Sample Number : VTL/AN/01

Name & Address of the Party : M/S Jindal Saw Ltd.
 Dhedwas Iron Ore Mines & Mineral Beneficiation
 Plant (ML No.: 631/05), Near Tiranga Hill, Village-
 Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
 Scope of Monitoring : Regulatory Requirement
 Protocol Used : IS 9989
 Instrument Used : SLM

Report No. : VTL/N/2403140001/A
 Format No : 7.8 F-04
 Party Reference No : NIL
 Report Date : 19/03/2024
 Receipt Date : 14/03/2024
 Sampling Duration : 24 Hrs.
 Sample Collected : VTL Team
 Instrument : Calibrated
 Calibration Status

General Information:-

Sampling Location : Pur Village
 Instrument Code : VTL/SLM/01
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 10/03/2024 To 11/03/2024
 Time of Monitoring : 06:00 TO 06:00 Hrs.
 Ambient Temperature (°C) : Min. 12°C Max. 32°C
 Surrounding Activity : Human, Vehicular & Other Act.
 Parameter Required : As per work Order
 Coordinates : 25°18'0" & 74°32'21"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.7	44.1

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

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Sample Number : VTL/AN/07

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140007/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Dariba Village
Instrument Code : VTL/SLM/03
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°21'01" & 74°31'40"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.1	43.8

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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Sample Number : VTL/AN/05

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140005/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Kanoli Village
Instrument Code : VTL/SLM/02
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 09/03/2024 To 10/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°16'11" & 74°36'10"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	52.1	42.3

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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Sample Number : VTL/AN/04

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140004/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Gandhisagar Park
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 09/03/2024 To 10/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°20'11" & 74°38'57"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	52.9	41.8

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

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Sample Number : VTL/AN/02

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140002/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Samodi Village
Instrument Code : VTL/SLM/02
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°21'3" & 74°32'52"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	52.3	42.2

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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TEST REPORT

TE-11227

Sample Number : VTL/AN/03

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.: 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140003/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Suras Village
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 12/03/2024 To 13/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°23'124" & 74°34'11"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	54.6	42.1

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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Sample Number : VTL/AN/06

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140006/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Dhulkhera Village
Instrument Code : VTL/SLM/02
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 12/03/2024 To 13/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°24'4" & 74°35'40"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.6	43.2

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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Sample Number : VTL/AN/08

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140008/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Raw Material Storage Yard
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 07/03/2024 To 08/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°19'20" & 74°32'18"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	54.1	41.9

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

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TC-11227

Sample Number : VTL/AN/09

Name & Address of the Party : M/S Jindal Saw Ltd.
 Dhedwas Iron Ore Mines & Mineral Beneficiation
 Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
 Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
 Scope of Monitoring : Regulatory Requirement
 Protocol Used : IS 9989
 Instrument Used : SLM

Report No. : VTL/N/2403140009/A
 Format No : 7.8 F-04
 Party Reference No : NIL
 Report Date : 19/03/2024
 Receipt Date : 14/03/2024
 Sampling Duration : 24 Hrs.
 Sample Collected : VTL Team
 Instrument : Calibrated
 Calibration Status :

General Information:-

Sampling Location : 10 Mtr. Distance from Loading Point Suras Pit
 Instrument Code : VTL/SLM/04
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 09/03/2024 To 10/03/2024
 Time of Monitoring : 06:00 TO 06:00 Hrs.
 Ambient Temperature (°C) : Min. 12°C Max. 32°C
 Surrounding Activity : Human, Vehicular & Other Act.
 Parameter Required : As per work Order
 Coordinates : 25°23'23" & 74°34'11"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	52.8	44.5

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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Sample Number : VTL/AN/10

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140010/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

General Information:-

Sampling Location : 10 Mtr. Distance from Loading Dhulkheda Pit
Instrument Code : VTL/SLM/05
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 09/03/2024 To 10/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°23'41" & 74°34'38"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	57.3	44.7

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

*****End of Report*****

Checked by



RK Yadav
Lab Incharge
Authorized Signatory



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Sample Number : VTL/AN/11

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140011/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : 10 Mtr. Distance from Loading Tiranga Pit
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024 To 09/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 14°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°19'20" & 74°32'18"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	56.9	43.2

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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Sample Number : VTL/AN/13

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140012/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Nr. Central Store/ Tata Blue Shed
Instrument Code : VTL/SLM/02
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024 To 09/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°19'9" & 74°32'10"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.7	41.9

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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Sample Number : VTL/AN/13

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140013/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

General Information:-

Sampling Location : Nr. Crusher (CCR Building)
Instrument Code : VTL/SLM/03
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024 To 09/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°19'16" & 74°32'11"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	58.6	44.9

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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Sample Number : VTL/AN/14

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140014/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Filter Fresh Building
Instrument Code : VTL/SLM/04
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024 To 09/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°19'08" & 74°32'21"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.4	42.7

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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Sample Number : VTL/AN/15

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140015/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

General Information:-

Sampling Location : Nr. BFN CCR Building
Instrument Code : VTL/SLM/05
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024 To 09/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°19'10" & 74°32'18"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	56.3	43.6

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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Sample Number : VTL/AN/16

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140016/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Lake View Lawn
Instrument Code : VTL/SLM/04
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°19'34" & 74°32'33"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	52.7	42.1

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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Sample Number : VTL/AN/17

Name & Address of the Party : M/S Jindal Saw Ltd.
Dhedwas Iron Ore Mines & Mineral Beneficiation
Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
Pur, Tehsil & District- Bhilwara Rajasthan

Sample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLM

Report No. : VTL/N/2403140017/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Temple Area
Instrument Code : VTL/SLM/05
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°18'56" & 74°32'10"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	54.4	43.9

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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