

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/2306220006/A
 Format No : 7.8 F-02
 Party Reference No : NIL
 Report Date : 28/06/2023
 Period of Analysis : 22/06/2023-28/06/2023
 Receipt Date : 22/06/2023

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/01
 Coordinates : 25°18'1" & 74°32'44"
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 17/06/2023 To 18/06/2023
 Time of Monitoring : 1404:00 TO 14:04 Hrs.
 Ambient Temperature (°C) : Min. 28°C Max. 38°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	79.97	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	35.56	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA,2018	23.28	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA, 2018	13.63	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	14.64	µg/m ³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA,2019	16.28	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

*BDL-Below Detection Limit

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- Bhiwara Rajasthan

Report No. : VTL/A/2306220006/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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/01
Coordinates : 25°18'1" & 74°32'44"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 17/06/2023 To 18/06/2023
Time of Monitoring : 14:04:00 TO 14:04 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 38°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)	Lab SOP no. VTL/STP/02:2022, STP-08	0.53	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	155.66	µg/m ³	--

*BDL-Below Detection Limit

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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/2306220005/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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/02
Coordinates : 25°20'33" & 74°31'46"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/06/2023 To 20/06/2023
Time of Monitoring : 12:00 TO 12:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 38°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	73.26	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	36.41	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	18.66	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.52	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	17.66	µg/m ³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	18.47	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

*BDL-Below Detection Limit

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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/2306220005/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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/02
Coordinates : 25°20'33" & 74°31'46"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/06/2023 To 20/06/2023
Time of Monitoring : 12:00 TO 12:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 38°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)	Lab SOP no. VTL/STP/02:2022, STP-06	0.48	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	154.99	µg/m ³	--

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Sample Number : VTL/AA/07
Name & Address of the Party : M/S Jindai 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/2306220007/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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/03
Coordinates : 25°16'12" & 74°36'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/06/2023 To 20/06/2023
Time of Monitoring : 19:00 TO 19:00 Hrs
Ambient Temperature (°C) : Min. 25°C Max. 38°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	70.69	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	35.14	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	17.66	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	9.85	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	13.63	µg/m ³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	14.52	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

*BDL-Below Detection Limit

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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- Bhiwara Rajasthan

Report No. : VTL/A/2306220007/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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/03
Coordinates : 25°16'12" & 74°36'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/06/2023 To 20/06/2023
Time of Monitoring : 19:00 TO 19:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 38°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)	Lab SOP no. VTL/STP/02:2022, STP-08	0.45	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	151.33	µg/m ³	-

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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/2306220009/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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/01
Coordinates : 25°20'11" & 74°38'57"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/06/2023 To 20/06/2023
Time of Monitoring : 14:19 TO 14:19 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 38°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	77.36	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	35.44	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	20.66	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	12.60	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	14.84	µg/m ³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	15.74	µg/m ³	180
8	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BDL(<0.15)	ng/m ³	6
9	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BDL(<5.0)	ng/m ³	20
10	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m ³	1

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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/2306220009/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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/01
Coordinates : 25°20'11" & 74°38'57"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/06/2023 To 20/06/2023
Time of Monitoring : 14:18 TO 14:19 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 38°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)	Lab SOP no. VTL/STP/02:2022, STP-08	0.56	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA,2014	161.33	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-
 Pur, Tehsil & District- Bhilwara Rajasthan

Report No. : VTL/A/2306220008/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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/04
Coordinates : 25°19'33" & 74°32'33"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 15/06/2023 To 16/06/2023
Time of Monitoring : 17:15 TO 17:15 Hrs.
Ambient Temperature (°C) : Min. 29°C Max. 41°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	80.17	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	40.69	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	20.90	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	14.16	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	14.22	µg/m ³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	16.14	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

*BDL-Below Detection Limit

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- Bhiwara Rajasthan

Report No. : VTL/A/2306220008/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/05/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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/04
Coordinates : 25°19'33" & 74°32'33"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 15/06/2023 To 16/06/2023
Time of Monitoring : 17:15 TO 17:15 Hrs.
Ambient Temperature (°C) : Min. 29°C Max. 41°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)	Lab SOP no. VTL/STP/02:2022, STP-06	0.57	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	163.55	µg/m ³	-

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Sample Number : VTL/AA/10
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

Report No. : VTL/A/2306220010/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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/02
Coordinates : 25°18'56" & 74°32'10"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/06/2023 To 17/06/2023
Time of Monitoring : 18:04 TO 18:04 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 40°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	68.14	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	34.25	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	18.44	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	9.36	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	11.23	µg/m ³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	13.21	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

*BDL-Below Detection Limit

End of Report



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TEST REPORT

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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/2306220010/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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/02
Coordinates : 25°18'56" & 74°32'10"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/06/2023 To 17/06/2023
Time of Monitoring : 18:04 TO 18:04 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 40°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)	Lab SOP no. VTL/STP/02:2022, STP-08	0.41	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA 2014	141.66	µg/m ³	-

*BDL-Below Detection Limit

End of Report



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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/2306220001/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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°19'28" & 74°32'3"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 15/06/2023 To 16/06/2023
Time of Monitoring : 12:43 TO 12:43 Hrs.
Ambient Temperature (°C) : Min. 29°C Max. 41°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	81.45	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	41.81	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	42.24	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.84	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	15.15	µg/m ³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	16.15	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

*BDL-Below Detection Limit

End of Report




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TEST REPORT

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/2306220001/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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°19'28" & 74°32'3"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 15/06/2023 To 16/06/2023
Time of Monitoring : 12:43 TO 12:43 Hrs.
Ambient Temperature (°C) : Min. 29°C Max. 41°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)	Lab SOP no. VTL/STP/02:2022, STP-08	0.46	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	151.86	µg/m ³	--

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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/2306220004/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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/01
Coordinates : 25°12'2" & 74°32'52"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 14/06/2023 To 15/06/2023
Time of Monitoring : 16:42 TO 16:42 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 40°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	75.66	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	36.14	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	20.32	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.47	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	14.63	µg/m ³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	17.47	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

*BDL-Below Detection Limit

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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/2306220004/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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/01
Coordinates : 25°12'2" & 74°32'52"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 14/06/2023 To 15/06/2023
Time of Monitoring : 16:42 TO 16:42 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 40°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)	Lab SOP no. VTL/STP/02:2022, STP-08	0.50	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	161.39	µg/m ³	--

*BDL-Below Detection Limit

End of Report

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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/2306220002/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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 : 15/06/2023 To 16/06/2023
Time of Monitoring : 15:33 TO 15:33 Hrs.
Ambient Temperature (°C) : Min. 29°C Max. 41°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	83.60	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	44.59	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	20.46	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.76	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	16.08	µg/m ³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	17.63	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

*BDL-Below Detection Limit

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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/2306220002/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

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 : 15/06/2023 To 16/06/2023
Time of Monitoring : 15:33 TO 15:33 Hrs.
Ambient Temperature (°C) : Min. 29°C Max. 41°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)	Lab SOP no. VTL/STP/02:2022, STP-08	0.49	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	156.33	µg/m ³	--

*BDL-Below Detection Limit

End of Report

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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/2306220003/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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 : 15/06/2023 To 16/06/2023
Time of Monitoring : 16:04 TO 16:04 Hrs.
Ambient Temperature (°C) : Min. 29°C Max. 41°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	85.13	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	40.43	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	22.63	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	13.66	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	16.67	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	18.03	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

*BDL-Below Detection Limit

End of Report



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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/2306220003/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

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 : 15/06/2023 To 16/06/2023
Time of Monitoring : 16:04 TO 16:04 Hrs.
Ambient Temperature (°C) : Min. 29°C Max. 41°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)	Lab SOP no. VTL/STP/02:2022, STP-08	0.52	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	158.66	µg/m ³	--

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TEST REPORT



TC-11227

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/2306290008/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 05/07/2023
Period of Analysis : 29/06/2023-05/07/2023
Receipt Date : 29/06/2023

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/03
Coordinates : 25°19'28" & 74°32'3"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 26/06/2023 To 27/06/2023
Time of Monitoring : 12:43 TO 12:43 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 41°C
Surrounding Activity : Human, Vehicular & Mine 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	79.44	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	39.24	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	20.69	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	9.95	µg/m ³	80

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

End of Report



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Authorized Signatory





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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/2306290008/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 05/07/2023
Period of Analysis : 29/06/2023-05/07/2023
Receipt Date : 29/06/2023

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/03
Coordinates : 25°19'28" & 74°32'3"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 26/06/2023 To 27/06/2023
Time of Monitoring : 12:43 TO 12:43 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 41°C
Surrounding Activity : Human, Vehicular & Mine 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)	Lab SOP no. VTL/STP/02:2022, STP-08	0.43	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	148.03	µg/m ³	--

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

End of Report

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Vibrant Techno Lab Pvt. Ltd.

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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/2306290009/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 05/07/2023
Period of Analysis : 29/06/2023-05/07/2023
Receipt Date : 29/06/2023

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°21'2" & 74°32'52"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 26/06/2023 To 27/06/2023
Time of Monitoring : 13:43 TO 13:43 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 41°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	74.07	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	34.746	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	21.19	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.61	µg/m ³	80

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

End of Report

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Lab Incharge
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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/2306290009/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 05/07/2023
Period of Analysis : 29/06/2023-05/07/2023
Receipt Date : 29/06/2023

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°21'2" & 74°32'52"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 26/06/2023 To 27/06/2023
Time of Monitoring : 13:43 TO 13:43 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 41°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)	Lab SOP no. VTL/STP/02:2022, STP-08	0.45	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	145.21	µg/m ³	--

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

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TEST REPORT



TC-11227

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/2306290007/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 05/07/2023
Period of Analysis : 29/06/2023-05/07/2023
Receipt Date : 29/06/2023

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Dhulkheda 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 : 26/06/2023 To 27/06/2023
Time of Monitoring : 11:43 TO 11:43 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 41°C
Surrounding Activity : Human, Vehicular & Mine 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	85.28	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	45.73	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	12.18	µg/m³	80

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

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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/2306290007/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 05/07/2023
Period of Analysis : 29/06/2023-05/07/2023
Receipt Date : 29/06/2023

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Dhulkheda 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 : 26/06/2023 To 27/06/2023
Time of Monitoring : 11:43 TO 11:43 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 41°C
Surrounding Activity : Human, Vehicular & Mine 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)	Lab SOP no. VTL/STP/02:2022, STP-08	0.51	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	145.62	µg/m ³	--

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

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Authorized Signatory

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/2306290006/A
 Format No : 7.8 F-02
 Party Reference No : NIL
 Report Date : 05/07/2023
 Period of Analysis : 29/06/2023-05/07/2023
 Receipt Date : 29/06/2023

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/01
 Coordinates : 25°23'24" & 74°34'11"
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 26/06/2023 To 27/06/2023
 Time of Monitoring : 10:43 TO 10:43 Hrs.
 Ambient Temperature (°C) : Min. 30°C Max. 41°C
 Surrounding Activity : Human, Vehicular & Mine 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	84.02	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	43.22	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	19.30	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.24	µg/m ³	80

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TEST REPORT

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/2306290006/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 05/07/2023
Period of Analysis : 29/06/2023-05/07/2023
Receipt Date : 29/06/2023

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/01
Coordinates : 25°23'24" & 74°34'11"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 26/06/2023 To 27/06/2023
Time of Monitoring : 10:43 TO 10:43 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 41°C
Surrounding Activity : Human, Vehicular & Mine 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)	Lab SOP no. VTL/STP/02:2022, STP-08	0.49	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	163.29	µg/m ³	--

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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/2306220001/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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 : 17/06/2023
Time of Monitoring : 17:00 TO 01:00 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 38°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	473.58	µg/m ³

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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-

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

Report No. : VTL/FD/2306220002/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

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 : 17/06/2023
 Time of Monitoring : 17:59 TO 01:59 Hrs.
 Ambient Temperature (°C) : Min. 30°C Max. 38°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	536.98	µg/m3

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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/2306220003/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

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/05
 Coordinates : 25°20'2" & 74°32'42"
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 19/06/2023
 Time of Monitoring : 17:51 TO 01:51 Hrs.
 Ambient Temperature (°C) : Min. 25°C Max. 33°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	545.85	µg/m3

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Sample Number : VTL/FD/04

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/2306220004/B

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

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/06

Coordinates : --

Meteorological condition during monitoring : Clear Sky

Date of Monitoring : 19/06/2023

Time of Monitoring : 16:00 TO 24:00 Hrs.

Ambient Temperature (°C) : Min. 25°C Max. 33°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	567.13	µg/m3

End of Report




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

Report No. : VTL/FD/2306220005/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023

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/05
Coordinates : 25°19'10" & 74°32'11"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 20/06/2023
Time of Monitoring : 10:00 TO 18:00 Hrs.
Ambient Temperature (°C) : Min. 27°C Max. 38°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	437.79	µg/m3

End of Report



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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/2306290002/A
Format No : 7.8 F-03
Party Reference No : NIL
Report Date : 05/07/2023
Period of Analysis : 29/06/2023-05/07/2023
Receipt Date : 29/06/2023

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : DG Set 1010 KVA
Sample Collected By : VTL Team
Date of Sampling : 28/06/2023
Sampling duration (Minutes) : 72 min. (13:30 to 14:42 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) : 37°C
Temperature of Stack Gases - Ts (°C) : 76°C
Velocity of Stack Gases (m/sec.) : 3.89
Flow rate of PM (LPM) : 14
Flow rate of Gas (LPM) : 2.0
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : 25°19'8" & 74°32'21"

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	48.22	mg/Nm3	75
2	Sulphur Dioxide (SO ₂)	IS: 11255(P- 2): 1985, RA.2019	10.21	mg/Nm3	--
3	Carbon Monoxide (CO)	USEPA 10: 1996	40.15	mg/Nm3	150
4	Total Hydrocarbon (THC)	USEPA 18: 1996	13.71	mg/Nm3	100
5	Oxide of Nitrogen (NO ₂)	IS-11255 (P-7), RA 2017	118.67	mg/Nm3	710

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

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TEST REPORT



TC-11227

Sample Number : VTLW/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. : VTLW/2306220003/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°18'18" & 74°32'52"

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

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	7.32	--	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	335.00	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 CaCO3)	IS: 3025 (P-23): 1986, RA 2019	323.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	224.93	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	23.09	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	905.20	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	97.09	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.99	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	26.25	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 (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BDL(<0.02)	mg/l	0.001	0.002
17	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.35	mg/l	5.0	15.0



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Sample Number : VTLW/03

Report No. : VTLW/2306220003/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	240.02	mg/l	--	--

*BDL-Below Detection Limit

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TEST REPORT

Sample Number : VTLW/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. : VTLW/2306220003/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°18'18" & 74°32'52"

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

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

*BDL-Below Detection Limit

End of Report



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Sample Number : VTL/W/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/W/2306220007/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°20'34" & 74°31'38"

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

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	335.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	100.20	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	370.50	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	215.36	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	20.66	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	925.20	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	91.91	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	24.61	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.23	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



TC-11227

Sample Number : VTLW/07

Report No. : VTLW/2306220007/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	250.00	mg/l	--	--

*BDL-Below Detection Limit

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TEST REPORT

Sample Number : VTLW/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. : VTLW/2306220007/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°20'34" & 74°31'38"

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

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



Sample Number : VTLW/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. : VTLW/2306220006/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°16'12" & 74°36'10"

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

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	325.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	92.18	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	313.50	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	217.75	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	23.09	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	810.20	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	94.50	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.96	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	25.59	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	0.31	mg/l	5.0	15.0



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TEST REPORT



TC-11227

Sample Number : VTL/W/06

Report No. : VTLW/2306220006/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	230.04	mg/l	--	--

*BDL-Below Detection Limit

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TEST REPORT

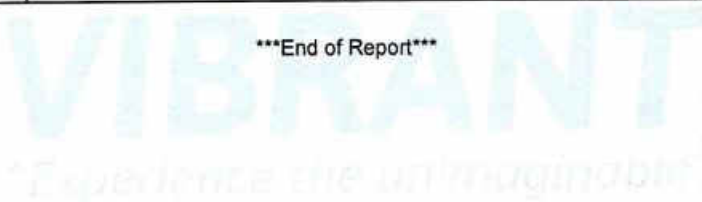
Sample Number : VTLW/06
Name & Address of the Party : M/S Jindal Saw Ltd.
 Dhedwas Iron Ore Mines & Mineral Beneficiation Plant (ML No.:- 631/05),Near Tiranga Hill, Village-Pur, Tehsil & District- Bhiwara Rajasthan
Sample Description : Water Sample
Sampling Location : Kanoli Village
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTLW/2306220006/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
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,5175/6630 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



TC-11227

Sample Number : VTL/W/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/W/2306220005/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°20'11" & 74°38'57"

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

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 CaCO3)	IS: 3025 (P-21): 2009, RA 2019	375.00	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 CaCO3)	IS: 3025 (P-23): 1986, RA 2019	418.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	246.47	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	17.01	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	905.20	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	110.03	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.97	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	28.49	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 (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	0.34	mg/l	5.0	15.0



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TEST REPORT



TC-11227

Sample Number : VTLW/05

Report No. : VTLW/2306220005/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	304.89	mg/l	--	--

*BDL-Below Detection Limit

End of Report

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Sample Number : VTLW/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. : VTLW/2306220005/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°20'11" & 74°38'57"

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

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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Sample Number : VTLW/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. : VTLW/2306220004/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°20'53" & 74°32'46"

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

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 CaCO3)	IS: 3025 (P-21): 2009, RA 2019	410.00	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 CaCO3)	IS: 3025 (P-23): 1986, RA 2019	427.50	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	251.25	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	25.52	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	1055.20	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	112.62	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.01	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	27.57	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 (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	0.33	mg/l	5.0	15.0



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Sample Number : VTLW/04

Report No. : VTLW/2306220004/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	304.89	mg/l	--	--

*BDL-Below Detection Limit

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Sample Number : VTL/W/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/W/2306220004/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°20'53" & 74°32'46"

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

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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Sample Number : VTLW/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. : VTLW/2306220002/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°23'16" & 74°33'40"

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

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	7.06	--	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	370.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	116.23	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	389.50	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	241.68	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	19.44	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	985.20	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	111.33	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	25.13	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	0.33	mg/l	5.0	15.0



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TEST REPORT



TC-11227

Sample Number : VTLW/02

Report No. : VTLW/2306220002/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) *BLQ(**LOQ-0.2)	mg/l	0.2	1.0
28	Calcium Hardness	IS: 3025 (P-40): 1991 RA 2019	289.92	mg/l	--	--

*BDL-Below Detection Limit

End of Report



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TEST REPORT

Sample Number : VTLW/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. : VTLW/2306220002/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°23'16" & 74°33'40"

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

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



Sample Number : VTLW/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. : VTLW/2306220001/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°23'59" & 74°35'33"

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

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	7.10	--	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	350.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	104.21	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	384.75	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	227.32	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	21.87	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	935.20	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	106.15	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.02	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	24.08	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	0.34	mg/l	5.0	15.0



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TEST REPORT



TC-11227

Sample Number : VTLW/01

Report No. : VTLW/2306220001/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	259.98	mg/l	--	--

*BDL-Below Detection Limit

End of Report



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TEST REPORT

Sample Number : VTLW/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

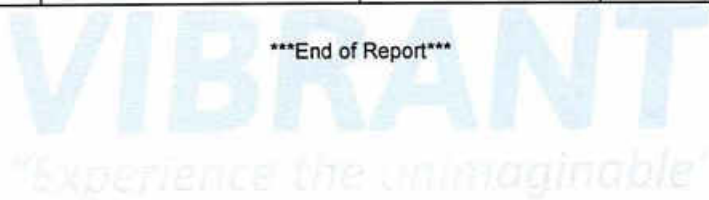
Report No. : VTLW/2306220001/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°23'59" & 74°35'33"

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

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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Sample Number : VTLW/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. : VTLW/2306220008/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°19'6" & 74°32'16"

Sample Description : Water Sample
Sampling Location : BFN Plant - Ground Water
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

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	560.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	154.31	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	593.75	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	411.57	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	42.52	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	1485.20	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	196.76	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.13	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	40.39	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.23	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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Sample Number : VTLW/08

Report No. : VTLW/2306220008/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	384.98	mg/l	--	--

*BDL- Below Detection Limit

End of Report



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TEST REPORT

Sample Number : VTL/W/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

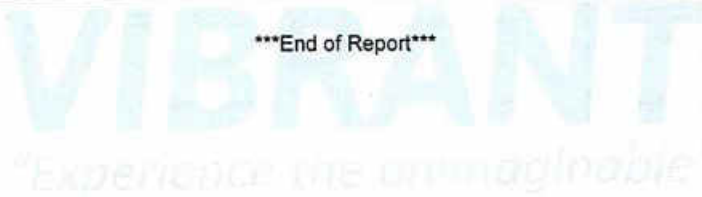
Report No. : VTL/W/2306220008/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 18/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°19'6" & 74°32'16"

Sample Description : Water Sample
Sampling Location : BFN Plant - Ground Water
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

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



TC-11227

Sample Number : VTLW/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- Bhlwara Rajasthan

Report No. : VTLW/2306220020/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 19/06/2023

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°23'48" & 74°33'16"

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

S.No.	Test Parameters	Test Method	Results	Units
1	pH value	IS : 3025 (P-11) : 2022	7.63	--
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	3.2	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	475.20	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	136.40	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986, Sec.RA 2022	69.90	mg/l
6	Total Suspended Solids (TSS)	IS: 3025 (P-17) : 2022	10.20	mg/l
7	Total Hardness- (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	205.00	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	56.10	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	15.80	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.72	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	20.70	mg/l
12	Total Coliform	IS 15185; 2016	Present	MPN
13	Total Alkalinity (CaCO3)	IS: 3025 (P-23) :1986, RA 2019	218.50	mg/l
14	Iron (as Fe)	APHA 23rd Edition, 3111B, 2017	0.41	mg/l
15	Zinc (as Zn)	APHA 23rd Edition, 3030D, 3113B, 2017	0.45	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



Sample Number : VTL/W/20

Report No. : VTL/W/2306220020/A

S.No.	Test Parameters	Test Method	Results	Units
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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TEST REPORT

Sample Number : VTL/W/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- Bhiwara 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/2306220020/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 19/06/2023

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°23'48" & 74°33'16"

S.No.	Test Parameters	Test Method	Results	Units
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	1.47	mg/l
5	Potassium (as K)	APHA 23rd Edition, 3030D,3113B, 2017	21.88	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(<5.0)	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	139.97	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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Sample Number : VTLW/21

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

Report No. : VTLW/2306220021/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 19/06/2023

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°23'31" & 74°32'18"

S.No.	Test Parameters	Test Method	Results	Units
1	pH value	IS : 3025 (P-11) : 2022	8.80	--
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	6.10	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	435.20	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	126.8	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986, Sec.RA 2022	63.4	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	220.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	52.1	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	21.87	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.56	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	16.3	mg/l
12	Total Coliform	IS 15185; 2016	Present	MPN
13	Total Alkalinity (CaCO3)	IS: 3025 (P-23) :1986, RA 2019	209.0	mg/l
14	Iron (as Fe)	APHA 23rd Edition, 3111B, 2017	0.33	mg/l
15	Zinc (as Zn)	APHA 23rd Edition, 3030D, 3113B, 2017	0.41	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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Sample Number : VTLW/21

Report No. : VTL/W/2306220021/A

S.No.	Test Parameters	Test Method	Results	Units
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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SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020

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VIBRANT

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TEST REPORT

Sample Number : VTLW/21
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. : VTLW/2306220021/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 19/06/2023
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°23'31" & 74°32'18"

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

S.No.	Test Parameters	Test Method	Results	Units
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	1.87	mg/l
5	Potassium (as K)	APHA 23rd Edition, 3030D,3113B, 2017	18.38	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(<5.0)	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 CaCO3)	IS: 3025 (P-40) : 1991 RA 2019	129.99	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



Praveen
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RK Yadav
 Lab Incharge
 Authorized Signatory

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TEST REPORT



Sample Number : VTL/W/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/W/2306220009/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°19'0" & 74°32'26"

Sample Description : Water Sample
Sampling Location : PiezoWells No.-1(Nr. Tailing Filter Press)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

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 CaCO3)	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 CaCO3)	IS: 3025 (P-23): 1986, RA 2019	546.25	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	382.86	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	1315.20	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	161.81	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.09	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	38.62	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.36	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	0.51	mg/l	5.0	15.0



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TEST REPORT



TC-11227

Sample Number : VTLW/09

Report No. : VTLW/2306220009/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	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Absent	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	350.05	mg/l	--	--

*BDL- Below Detection Limit

End of Report



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TEST REPORT

Sample Number : VTLW/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 : Water Sample
Sampling Location : PiezoWells No.-1(Nr. Tailing Filter Press)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTLW/2306220009/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°19'0" & 74°32'26"

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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Sample Number : VTL/W/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 : Water Sample
Sampling Location : PiezoWells No.-2(OB Dump Yard Nr. Gate -5)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTL/W/2306220010/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°20'4" & 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	7.21	--	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	136.27	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	513.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	301.50	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	1215.20	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	141.10	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.10	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	37.76	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.40	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	0.55	mg/l	5.0	15.0



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Sample Number : VTLW/10

Report No. : VTLW/2306220010/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	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Absent	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	340.07	mg/l	--	--

*BDL- Below Detection Limit

End of Report




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TEST REPORT

Sample Number : VTLW/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. : VTLW/2306220010/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 20/06/2023

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°20'4" & 74°32'50"

Sample Description : Water Sample

Sampling Location : PiezoWells No.-2(OB Dump Yard Nr. Gate -5)

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

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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Sample Number : VTL/W/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 : Water Sample
Sampling Location : PiezoWells No.-3(Old Mines Office-Suras)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTL/W/2306220011/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°23'34" & 74°33'53"

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	7.08	--	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	390.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	128.26	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	403.75	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	248.86	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	17.01	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	1025.20	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	113.92	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.09	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	37.57	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.45	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	0.56	mg/l	5.0	15.0



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Sample Number : VTLW/11

Report No. : VTLW/2306220011/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	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Absent	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	320.11	mg/l	--	--

*BDL- Below Detection Limit

End of Report



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TEST REPORT

Sample Number : VTLW/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

Report No. : VTLW/2306220011/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°23'34" & 74°33'53"

Sample Description : Water Sample
Sampling Location : PiezoWells No.-3(Old Mines Office-Suras)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

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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Sample Number : VTLW/12
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 : PiezoWells No.-4(OB Dump Yard- Suras Mines)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTLW/2306220012/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°23'18" & 74°34'19"

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	7.20	--	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	580.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	164.33	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	589.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	454.65	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	1925.20	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	190.29	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.16	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	42.89	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.79	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	0.83	mg/l	5.0	15.0



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Sample Number : VTLW/12

Report No. : VTLW/2306220012/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	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Absent	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	409.93	mg/l	--	--

*BDL- Below Detection Limit

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TEST REPORT

Sample Number : VTLW/12
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 : PiezoWells No.-4(OB Dump Yard- Suras Mines)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTLW/2306220012/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°23'18" & 74°34'19"

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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Sample Number : VTLW/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 : Water Sample
Sampling Location : PiezoWell No.-5(Nr. Weigh Bridge-Dhulkheda -N)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTLW/2306220013/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°23'56" & 74°35'4"

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	8.17	--	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	530.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	158.32	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	522.50	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	430.72	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	32.80	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	1795.20	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	182.52	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD .2017	1.14	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	43.62	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.83	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	0.89	mg/l	5.0	15.0



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Sample Number : VTLW/13

Report No. : VTLW/2306220013/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	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Absent	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	394.96	mg/l	--	--

*BDL- Below Detection Limit

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TEST REPORT

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Sample Number : VTLW/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 : Water Sample

Sampling Location : PiezoWell No.-5(Nr. Weigh Bridge-Dhulkheda -N)

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTLW/2306220013/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 20/06/2023

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°23'56" & 74°35'4"

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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Sample Number : VTL/W/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

Report No. : VTL/W/2306220014/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°24'33" & 74°34'35"

Sample Description : Water Sample
Sampling Location : PiezoWell No.-6(Nr. OB Dump Yard -Dhulkheda-N)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

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	7.62	--	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	505.00	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 CaCO3)	IS: 3025 (P-23): 1986, RA 2019	532.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	311.07	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	37.67	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	1255.20	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	148.87	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.19	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	40.99	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.59	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	0.65	mg/l	5.0	15.0



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Sample Number : VTLW/14

Report No. : VTLW/2306220014/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	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Absent	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	350.05	mg/l	--	--

*BDL- Below Detection Limit

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Sample Number : VTL/W/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 : Water Sample
Sampling Location : PiezoWell No.-6(Nr. OB Dump Yard -Dhulkheda-N)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTL/W/2306220014/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°24'33" & 74°34'35"

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



TC-11227

Sample Number : VTLW/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

Report No. : VTLW/2306220015/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°23'32" & 74°34'28"

Sample Description : Water Sample
Sampling Location : PiezoWell No.-7(Nr. Mines Office- Dhulkheda-S)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

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	7.09	-	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	360.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	108.22	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	418.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	234.50	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	21.87	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	1005.20	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	119.09	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.05	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	32.63	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.51	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	0.71	mg/l	5.0	15.0



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Sample Number : VTLW/15

Report No. : VTLW/2306220015/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	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Absent	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	289.96	mg/l	--	--

*BDL- Below Detection Limit

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Sample Number : VTLW/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- Bhiwara Rajasthan

Sample Description : Water Sample
Sampling Location : PiezoWell No.-7(Nr. Mines Office- Dhulkheda-S)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTLW/2306220015/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°23'32" & 74°34'28"

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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Sample Number : VTLW/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

Report No. : VTLW/2306220016/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°23'53" & 74°34'28"

Sample Description : Water Sample
Sampling Location : PiezoWell No.-8(Nr. OB Dump Yard - Dhulkheda-S)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

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	7.32	--	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	555.00	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	479.75	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	291.93	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	55.89	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	1445.20	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	128.16	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD ,2017	1.22	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	34.28	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.65	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	0.74	mg/l	5.0	15.0



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Sample Number : VTLW/16

Report No. : VTLW/2306220016/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	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Absent	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	325.10	mg/l	--	--

*BDL- Below Detection Limit

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Sample Number : VTLW/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 : Water Sample
 Sampling Location : PiezoWell No.-8(Nr. OB Dump Yard - Dhulkheda-S)
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

Report No. : VTLW/2306220016/B
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 28/06/2023
 Period of Analysis : 22/06/2023-28/06/2023
 Receipt Date : 22/06/2023
 Sampling Date : 20/06/2023
 Sampling Type : Grab
 Sample Quantity : 2 Litr.
 Coordinates : 25°23'53" & 74°34'28"

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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Sample Number:	VTL/WL/01-08	Report No.:	VTL/WL/ 2306220001-08/B
Name & Address of the Party:	M/s Jindal Saw Ltd. Dhedwas Iron Ore Mines & Mineral Beneficiation Plat (ML No.-631/05), Tiranga Hill, Village- Pur, Tehsil & District - Bhilwara, Rajasthan	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Report Date:	28/06/2023
Sample Collected By	VTL Team	Receipt Date:	22/06/2023
Sample Description:	Ground Water Level Monitoring	Date of Monitoring	15-16/06/2023

S.No.	Location	Depth (In meter)
1.	Piezometer Well No.-01 (Nr. Tailing Filter Press)	36.15
2.	Piezometer Well No.-02 (OB Dump Yard Nr. Gate No. 5)	11.70
3.	Piezometer Well No.-03 (Old Mines Office- Suras)	10.70
4.	Piezometer Well No.-04 (Nr. OB Dump Yard - Suras Mines)	7.16
5.	Piezometer Well No.-05 (Nr. Weigh Bridge - Dhulkheda-N)	7.00
6.	Piezometer Well No.-06 (Nr. OB Dump Yard Dhulkheda-N)	9.30
7.	Piezometer Well No.-07 (Nr. Mines Office - Dhulkheda -S)	7.60
8.	Piezometer Well No.-08 (Nr. OB Dump Yard - Dhulkheda - S)	6.50


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TEST REPORT



TC-11227

Sample Number : VTL/WW/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/WW/2306220003/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°19'7" & 74°32'20"

Sample Description : Water
Sampling Location : Tailing Filter Recycling Water
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Result	Unit
1	Colour	IS: 13025: (P-4) :2021	7.0	Hazen
2	pH	IS: 3025 (P-11): 2022	7.42	-
3	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	42.10	mg/l
4	Total Dissolved Solids (TDS)	IS:3025 (P-16): 1984, RA 2017	1064.00	mg/l
5	Oil & Grease	IS:3025 (P-39): 2021	*BDL(<4.0)	mg/l
6	Residual Chlorine	IS: 3025 (P-26): 2021	0.47	mg/l
7	Ammonical Nitrogen (as NH3-N)	IS: 3025 (P-34) : 1988, Sec.4 RA: 2022	3.46	mg/l
8	Total Kjeldahl Nitrogen (as NH3)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	8.51	mg/l
9	Nitrate Nitrogen (as NO3)	IS: 3025 (P-34): 1988, (Chromotropic Method) Sec.RA:2022	17.11	mg/l
10	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	10.80	mg/l
11	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	45.36	mg/l
12	Lead (as Pb)	APHA 23rd Edition-3030 D, 3113 B, 2017	*BDL(<0.1)	mg/l
13	Copper (as Cu)	APHA 23rd Edition -3111B, 2017	*BDL(<0.1)	mg/l
14	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.2)	mg/l
15	Nickel (as Ni)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l
16	Fluoride (as F)	APHA 23rd Edition, 4500FD, 2017	0.82	mg/l
17	Arsenic (as As)	APHA 23rd Edition-3114C, 2017	*BDL(<0.05)	mg/l
18	Mercury (as Hg)	APHA 23rd Edition-3114 C, 2017	*BDL(<0.05)	mg/l
19	Cadmium (as Cd)	APHA 23rd edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l
20	Selenium (as Se)	APHA 23rd Edition- 3114 C , 2017	*BDL(<0.05)	mg/l



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Sample Number : VTLWW/02

Report No. : VTLWW/2306220003/A

S.No.	Test Parameters	Test Method	Result	Unit
21	Phenolic Compounds (as C ₆ H ₅ OH)	APHA 23rd Edition 5530C, 2017	*BDL(<0.1)	mg/l
22	Iron (as Fe)	APHA 23RD Edition 3111 B, 2017	0.80	mg/l
23	Manganese (as Mn)	APHA 23rd Edition 3030D, 3111 B, 2017	*BDL(<0.1)	mg/l
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

*BDL-Below Detection Limit.

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TEST REPORT

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Sample Number : VTL/WW/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

Sampling Location : Tailing Filter Recycling Water

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/WW/2306220003/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 20/06/2023

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°19'7" & 74°32'20"

S.No.	Test Parameters	Test Method	Result	Unit
1	Free Ammonia (as NH ₃)	IS: 3025 (P-34) : 1988, Titrimetric Method, RA:2019	0.28	mg/l
2	Phosphate (as PO ₄)	IS:3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022	0.85	mg/l
3	Sulphate (as SO ₄)	IS: 3025 (P-24): 1988, RA. 2019 Turbidity Method	49.02	mg/l
4	Cyanide (as CN)	APHA 23rd Edition- 4500 CN-E, 2017	*BDL(<5.0)	mg/l

*BDL-Below Detection Limit

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Sample Number : VTL/W/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 : SURFACE WATER

Sampling Location : Tailing Pond

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2306220042/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 20/06/2023

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°19'7" & 74°32'20"

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
1	Colour	IS: I3025: (P-4) :2021	7.30	Hazen	Colourless
2	pH	IS: 3025 (P-11): 2022	7.63	-	5.5 to 9.0
3	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	42.50	mg/l	100
4	Total Dissolved Solids (TDS)	IS:3025 (P-16): 1984, RA 2017	1115.10	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	0.71	mg/l	1
7	Ammonical Nitrogen (as NH ₃ -N)	IS: 3025 (P-34) : 1988,Sec.4 RA: 2022	3.53	mg/l	50
8	Total Kjeldahl Nitrogen (as NH ₃)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	8.78	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	0.79	mg/l	2



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TEST REPORT



TC-11227

Sample Number : VTLW/01

Report No. : VTLW/2306220042/A

S.No.	Test Parameters	Test Method	Results	Unit	Permissible Limit
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 C6H5OH)	APHA 23rd Edition 5530C, 2017	*BDL(<0.1)	mg/l	1
22	Iron (as Fe)	APHA 23RD Edition 3111 B, 2017	0.78	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	3.80	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

Sample Number : VTL/W/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 Pond

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2306220042/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 20/06/2023

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°19'7" & 74°32'20"

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	0.42	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	52.45	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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Term & conditions PTC

Sample Number : VTL/WW/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/WW/2306220004/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°19'34" & 74°32'37"

Sample Description : Water
Sampling Location : STP Incoming/Reservoir Water
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Result	Unit
1	Colour	IS: I3025: (P-4) :2021	*BDL(<5.0)	Hazen
2	pH	IS: 3025 (P-11): 2022	7.53	-
3	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	15.10	mg/l
4	Total Dissolved Solids (TDS)	IS:3025 (P-16): 1984, RA 2017	834.00	mg/l
5	Oil & Grease	IS:3025 (P-39): 2021	*BDL(<4.0)	mg/l
6	Residual Chlorine	IS: 3025 (P-26): 2021	0.35	mg/l
7	Ammonical Nitrogen (as NH ₃ -N)	IS: 3025 (P-34) : 1988, Sec.4 RA: 2022	0.42	mg/l
8	Total Kjeldahl Nitrogen (as NH ₃)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	7.98	mg/l
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	8.40	mg/l
11	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	38.88	mg/l
12	Lead (as Pb)	APHA 23rd Edition-3030 D, 3113 B, 2017	*BDL(<0.1)	mg/l
13	Copper (as Cu)	APHA 23rd Edition -3111B, 2017	*BDL(<0.1)	mg/l
14	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.2)	mg/l
15	Nickel (as Ni)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l
16	Fluoride (as F)	APHA 23rd Edition, 4500FD, 2017	0.79	mg/l
17	Arsenic (as As)	APHA 23rd Edition-3114C, 2017	*BDL(<0.05)	mg/l
18	Mercury (as Hg)	APHA 23rd Edition-3114 C, 2017	*BDL(<0.05)	mg/l
19	Cadmium (as Cd)	APHA 23rd edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l
20	Selenium (as Se)	APHA 23rd Edition- 3114 C , 2017	*BDL(<0.05)	mg/l



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TEST REPORT



TC-11227

Sample Number : VTLWW/03

Report No. : VTLWW/2306220004/A

S.No.	Test Parameters	Test Method	Result	Unit
21	Phenolic Compounds (as C ₆ H ₅ OH)	APHA 23rd Edition 5530C, 2017	*BDL(<0.1)	mg/l
22	Iron (as Fe)	APHA 23RD Edition 3111 B, 2017	0.65	mg/l
23	Manganese (as Mn)	APHA 23rd Edition 3030D, 3111 B, 2017	*BDL(<0.1)	mg/l
24	Dissolved Oxygen	IS : 3025 (P-38) : 1989, RA 2019	4.80	mg/l
25	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BDL(<0.1)	mg/l

*BDL-Below Detection Limit

End of Report



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Term & conditions PTC

Sample Number : VTL/WW/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
 Sampling Location : STP Incoming/Reservoir Water
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

Report No. : VTL/WW/2306220004/B
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 28/06/2023
 Period of Analysis : 22/06/2023-28/06/2023
 Receipt Date : 22/06/2023
 Sampling Date : 20/06/2023
 Sampling Type : Grab
 Sample Quantity : 2 Litr.
 Coordinates : 25°19'34" & 74°32'37"

S.No.	Test Parameters	Test Method	Result	Unit
1	Free Ammonia (as NH3)	IS: 3025 (P-34) : 1988, Titrimetric Method, RA:2019	0.80	mg/l
2	Phosphate (as PO4)	IS:3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022	0.82	mg/l
3	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA. 2019 Turbidity Method	52.45	mg/l
4	Cyanide (as CN)	APHA 23rd Edition- 4500 CN-E, 2017	*BDL(<5.0)	mg/l

*BDL-Below Detection Limit

End of Report



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Sample Number : VTL/WW/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/WW/2306220005/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°18'58" & 74°32'25"

Sample Description : Water
Sampling Location : Silt Arresting Tank
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Result	Unit
1	Colour	IS: I3025: (P-4) :2021	*BDL(<5.0)	Hazen
2	pH	IS: 3025 (P-11): 2022	7.61	-
3	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	20.10	mg/l
4	Total Dissolved Solids (TDS)	IS:3025 (P-16): 1984, RA 2017	1134.00	mg/l
5	Oil & Grease	IS:3025 (P-39): 2021	*BDL(<4.0)	mg/l
6	Residual Chlorine	IS: 3025 (P-26): 2021	0.42	mg/l
7	Ammonical Nitrogen (as NH ₃ -N)	IS: 3025 (P-34) : 1988, Sec.4 RA: 2022	0.56	mg/l
8	Total Kjeldahl Nitrogen (as NH ₃)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	8.25	mg/l
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	7.20	mg/l
11	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	32.40	mg/l
12	Lead (as Pb)	APHA 23rd Edition-3030 D, 3113 B, 2017	*BDL(<0.1)	mg/l
13	Copper (as Cu)	APHA 23rd Edition -3111B, 2017	*BDL(<0.1)	mg/l
14	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.2)	mg/l
15	Nickel (as Ni)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l
16	Fluoride (as F)	APHA 23rd Edition, 4500FD, 2017	0.88	mg/l
17	Arsenic (as As)	APHA 23rd Edition-3114C, 2017	*BDL(<0.05)	mg/l
18	Mercury (as Hg)	APHA 23rd Edition-3114 C, 2017	*BDL(<0.05)	mg/l
19	Cadmium (as Cd)	APHA 23rd edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l
20	Selenium (as Se)	APHA 23rd Edition- 3114 C , 2017	*BDL(<0.05)	mg/l



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Sample Number : VTL/WW/04

Report No. : VTL/WW/2306220005/A

S.No.	Test Parameters	Test Method	Result	Unit
21	Phenolic Compounds (as C ₆ H ₅ OH)	APHA 23rd Edition 5530C, 2017	*BDL(<0.1)	mg/l
22	Iron (as Fe)	APHA 23RD Edition 3111 B, 2017	0.77	mg/l
23	Manganese (as Mn)	APHA 23rd Edition 3030D, 3111 B, 2017	*BDL(<0.1)	mg/l
24	Dissolved Oxygen	IS : 3025 (P-38) : 1989, RA 2019	4.60	mg/l
25	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BDL(<0.1)	mg/l

*BDL-Below Detection Limit

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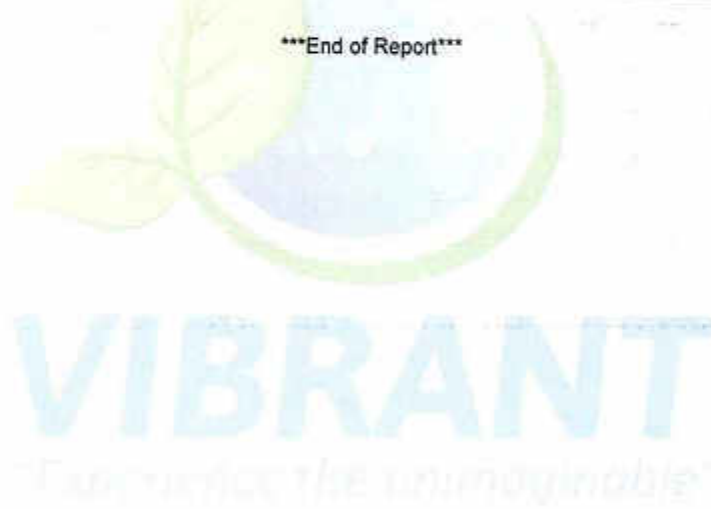
Sample Number : VTLWW/04
 Name & Address of the Party : M/S Jindal Saw Ltd.
 Dhedwas Iron Ore Mines & Mineral Beneficiation
 Plant (ML No.:- 631/05), Near Tiranga Hill, Village-
 Pur, Tehsil & District- Bhiwara Rajasthan
 Sample Description : Water
 Sampling Location : Silt Arresting Tank
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

Report No. : VTLWW/2306220005/B
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 28/06/2023
 Period of Analysis : 22/06/2023-28/06/2023
 Receipt Date : 22/06/2023
 Sampling Date : 20/06/2023
 Sampling Type : Grab
 Sample Quantity : 2 Litr.
 Coordinates : 25°18'58" & 74°32'25"

S.No.	Test Parameters	Test Method	Result	Unit
1	Free Ammonia (as NH ₃)	IS: 3025 (P-34) : 1988, Titrimetric Method, RA:2019	1.06	mg/l
2	Phosphate (as PO ₄)	IS:3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022	0.86	mg/l
3	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA. 2019 Turbidity Method	56.37	mg/l
4	Cyanide (as CN)	APHA 23rd Edition- 4500 CN-E, 2017	*BDL(<5.0)	mg/l

*BDL-Below Detection Limit

End of Report



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Sample Number : VTLWW/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
Sampling Location : BFN Recycling Water
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTLWW/2306220006/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 20/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°19'10" & 74°32'18"

S.No.	Test Parameters	Test Method	Result	Unit
1	Colour	IS: I3025: (P-4) :2021	*BDL(<5.0)	Hazen
2	pH	IS: 3025 (P-11): 2022	7.32	-
3	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	16.10	mg/l
4	Total Dissolved Solids (TDS)	IS:3025 (P-16): 1984, RA 2017	1434.00	mg/l
5	Oil & Grease	IS:3025 (P-39): 2021	*BDL(<4.0)	mg/l
6	Residual Chlorine	IS: 3025 (P-26): 2021	0.35	mg/l
7	Ammonical Nitrogen (as NH3-N)	IS: 3025 (P-34) : 1988, Sec.4 RA: 2022	0.80	mg/l
8	Total Kjeldahl Nitrogen (as NH3)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	6.92	mg/l
9	Nitrate Nitrogen (as NO3)	IS: 3025 (P-34): 1988, (Chromotropic Method) Sec.RA:2022	17.24	mg/l
10	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	7.20	mg/l
11	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	25.92	mg/l
12	Lead (as Pb)	APHA 23rd Edition-3030 D, 3113 B, 2017	*BDL(<0.1)	mg/l
13	Copper (as Cu)	APHA 23rd Edition -3111B, 2017	*BDL(<0.1)	mg/l
14	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.2)	mg/l
15	Nickel (as Ni)	APHA 23rd Edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l
16	Fluoride (as F)	APHA 23rd Edition, 4500FD, 2017	0.96	mg/l
17	Arsenic (as As)	APHA 23rd Edition-3114C, 2017	*BDL(<0.05)	mg/l
18	Mercury (as Hg)	APHA 23rd Edition-3114 C, 2017	*BDL(<0.05)	mg/l
19	Cadmium (as Cd)	APHA 23rd edition-3030D, 3113 B, 2017	*BDL(<0.1)	mg/l
20	Selenium (as Se)	APHA 23rd Edition- 3114 C , 2017	*BDL(<0.05)	mg/l



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Sample Number : VTL/WW/05

Report No. : VTL/WW/2306220006/A

S.No.	Test Parameters	Test Method	Result	Unit
21	Phenolic Compounds (as C6H5OH)	APHA 23rd Edition 5530C, 2017	*BDL(<0.1)	mg/l
22	Iron (as Fe)	APHA 23RD Edition 3111 B, 2017	0.82	mg/l
23	Manganese (as Mn)	APHA 23rd Edition 3030D, 3111 B, 2017	*BDL(<0.1)	mg/l
24	Dissolved Oxygen	IS : 3025 (P-38) : 1989, RA 2019	5.10	mg/l

*BDL-Below Detection Limit

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Sample Number : VTLWWW/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
 Sampling Location : BFN Recycling Water
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

Report No. : VTL/WWW/2306220006/B
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 28/06/2023
 Period of Analysis : 22/06/2023-28/06/2023
 Receipt Date : 22/06/2023
 Sampling Date : 20/06/2023
 Sampling Type : Grab
 Sample Quantity : 2 Litr.
 Coordinates : 25°19'10" & 74°32'18"

S.No.	Test Parameters	Test Method	Result	Unit
1	Free Ammonia (as NH ₃)	IS: 3025 (P-34) : 1988, Titrimetric Method, RA:2019	0.50	mg/l
2	Phosphate (as PO ₄)	IS:3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022	0.92	mg/l
3	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA. 2019 Turbidity Method	63.72	mg/l
4	Cyanide (as CN)	APHA 23rd Edition- 4500 CN-E, 2017	*BDL(<5.0)	mg/l

*BDL-Below Detection Limit

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Sample Number : VTLW/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 : Tiranga Pit
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTLW/2306220017/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 19/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°23'47" & 74°34'39"

S.No.	Test Parameters	Test Method	Results	Units
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	1835.2	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	445.1	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986, Sec.RA 2022	187.7	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	550.00	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	170.3	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	1.15	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	41.4	mg/l
12	Total Coliform	IS 15185, 2016	Present	MPN
13	Total Alkalinity (CaCO3)	IS: 3025 (P-23) :1986, RA 2019	579.50	mg/l
14	Iron (as Fe)	APHA 23rd Edition, 3111B, 2017	0.86	mg/l
15	Zinc (as Zn)	APHA 23rd Edition, 3030D, 3113B, 2017	0.94	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

Sample Number : VTLW/17

Report No. : VTL/W/2306220017/A

S.No.	Test Parameters	Test Method	Results	Units
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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Sample Number : VTL/W/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 : Tiranga Pit

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2306220017/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 19/06/2023

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°23'47" & 74°34'39"

S.No.	Test Parameters	Test Method	Results	Units
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	1.12	mg/l
5	Potassium (as K)	APHA 23rd Edition, 3030D,3113B, 2017	20.38	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(<5.0)	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	424.90	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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Sample Number : VTL/W/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 : Dhulkhera Pit
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTL/W/2306220018/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 19/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°23'47" & 74°34'39"

S.No.	Test Parameters	Test Method	Results	Units
1	pH value	IS : 3025 (P-11) : 2022	7.50	-
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	1675.20	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	430.7	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986, Sec.RA 2022	173.5	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	510.00	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	164.3	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	24.30	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	1.13	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	39.4	mg/l
12	Total Coliform	IS 15185; 2016	Present	MPN
13	Total Alkalinity (CaCO3)	IS: 3025 (P-23) :1986, RA 2019	560.50	mg/l
14	Iron (as Fe)	APHA 23rd Edition, 3111B, 2017	0.69	mg/l
15	Zinc (as Zn)	APHA 23rd Edition, 3030D, 3113B, 2017	0.79	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



Sample Number : VTL/W/18

Report No. : VTL/W/2306220018/A

S.No.	Test Parameters	Test Method	Results	Units
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

Sample Number : VTL/W/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 : Dhulkhera Pit

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2306220018/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 19/06/2023

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°23'47" & 74°34'39"

S.No.	Test Parameters	Test Method	Results	Units
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	1.33	mg/l
5	Potassium (as K)	APHA 23rd Edition, 3030D,3113B, 2017	19.75	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(<5.0)	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 CaCO3)	IS: 3025 (P-40) : 1991 RA 2019	409.93	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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Sample Number : VTL/W/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 : Suras Pit
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTL/W/2306220019/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2023
Period of Analysis : 22/06/2023-28/06/2023
Receipt Date : 22/06/2023
Sampling Date : 19/06/2023
Sampling Type : Grab
Sample Quantity : 2 Litr.
Coordinates : 25°23'36" & 74°34'19"

S.No.	Test Parameters	Test Method	Results	Units
1	pH value	IS : 3025 (P-11) : 2022	7.68	--
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	1535.20	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	421.10	mg/l
5	Sulphate as (SO ₄)	IS: 3025 (P- 24) : 1986, Sec.RA 2022	161.80	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	530.00	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	156.3	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 48) : 1994, RA 2019	34.02	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	1.24	mg/l
11	Nitrate (as NO ₃)	IS: 3025 (P- 34) : 1988 RA 2022	38.0	mg/l
12	Total Coliform	IS 15185; 2016	Present	MPN
13	Total Alkalinity (CaCO ₃)	IS: 3025 (P-23) :1986,RA 2019	546.30	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	0.83	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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Sample Number : VTL/W/19

Report No. : VTL/W/2306220019/A

S.No.	Test Parameters	Test Method	Results	Units
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***"Experience the unimaginable"***TEST REPORT**

Sample Number : VTL/W/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 : Suras Pit

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2306220019/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 19/06/2023

Sampling Type : Grab

Sample Quantity : 2 Litr.

Coordinates : 25°23'36" & 74°34'19"

S.No.	Test Parameters	Test Method	Results	Units
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	1.49	mg/l
5	Potassium (as K)	APHA 23rd Edition, 3030D,3113B, 2017	22.25	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(<5.0)	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	389.97	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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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 -B

Sample Collected By : VTL Team

Coordinates : 25°19'10" & 74°32'22"

Report No. : VTL/WW/2306220002/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 20/06/2023

Parameter Required : As per work Order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.36	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	13.70	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	0.28	mg/l	1
5	Total Kjeldahl Nitrogen (as NH ₃)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	4.26	mg/l	100
6	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	9.60	mg/l	30
7	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	38.88	mg/l	250
8	Sulphide (as S)	IS: 3025 (P-29) :1986 Idometric, RA :2019	0.80	mg/l	2
9	Nitrate (as NO ₃)	IS: 3025 (Pt-34) Chromotropic Method, RA 2019	3.82	mg/l	--
10	Ammonical Nitrogen (as NH ₃ -N)	IS: 3025 (P-34) : 1988,Sec.4 RA: 2022	6.9	mg/l	50

*BDL-Below Detection Limit

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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-
Pur, Tehsil & District- Bhilwara Rajasthan

Name & Address of the Party :

Sample Description : Waste Water

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

Sample Collected By : VTL Team

Coordinates : 25°19'10" & 74°32'22"

Report No. : VTL/WW/2306220002/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 20/06/2023

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	162.3	mg/l	--

*BDL-Below Detection Limit

End of Report



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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-
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°19'3" & 74°32'13"

Report No. : VTL/WW/2306220011/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 20/06/2023

Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.34	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	12.62	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4	Residual Chlorine	IS: 3025 (P-26): 2021	0.26	mg/l	1
5	Total Kjeldahl Nitrogen (as NH3)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	3.98	mg/l	100
6	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	9.11	mg/l	30
7	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	40.58	mg/l	250
8	Sulphide (as S)	IS: 3025 (P-29) :1986 Idometric, RA :2019	0.30	mg/l	2
9	Nitrate (as NO3)	IS: 3025 (Pt-34) Chromotropic Method, RA 2019	3.62	mg/l	--
10	Ammonical Nitrogen (as NH3-N)	IS: 3025 (P-34) : 1988,Sec.4 RA: 2022	6.3	mg/l	50

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

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TEST REPORT

Sample Number : VTLWW/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

Sample Description : Waste Water

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

Sample Collected By : VTL Team

Coordinates : 25°19'3" & 74°32'13"

Report No. : VTLWW/2306220011/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2023

Period of Analysis : 22/06/2023-28/06/2023

Receipt Date : 22/06/2023

Sampling Date : 20/06/2023

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	175.0	mg/l	--

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

End of Report



Ashwini
Checked by



RK Yadav
Lab Incharge
Authorized Signatory *B*

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

Report No. : VTL/N/2306220001/A
 Format No : 7.8 F-04
 Party Reference No : NIL
 Report Date : 28/06/2023
 Receipt Date : 22/06/2023
 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 : 17/06/2023 To 18/06/2023
 Time of Monitoring : 06:00 TO 06:00 Hrs.
 Ambient Temperature (°C) : Min. 28°C Max. 38°C
 Surrounding Activity : Human, Vehicular & Other Act.
 Parameter Required : As per work Order
 Coordinates : 25°18'19" & 74°32'52"

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



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Lab Incharge
Authorized Signatory





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TEST REPORT



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. : VTLN/2306220002/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 28/06/2023
Receipt Date : 22/06/2023
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

General Information:-

Sampling Location : Samodi Village
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/06/2023 To 17/06/2023
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 40°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°20'55" & 74°32'41"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.2	42.9

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

End of Report



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Lab Incharge
Authorized Signatory



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/2306220003/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 28/06/2023
Receipt Date : 22/06/2023
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 : 15/06/2023 To 16/06/2023
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 29°C Max. 41°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°23'16" & 74°33'40"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.1	43.1

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

- Day Time is from 6.00 AM to 10.00 PM.
 - Night Time is reckoned between 10.00 PM to 6.00 AM.
 - 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



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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/2306220004/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 28/06/2023
Receipt Date : 22/06/2023
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

General Information:-

Sampling Location : Gandhisagar Park Bhilwara
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/06/2023 To 20/06/2023
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 38°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	69.2	51.2

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

- Day Time is from 6.00 AM to 10.00 PM.
 - Night Time is reckoned between 10.00 PM to 6.00 AM.
 - 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



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TEST REPORT



TC-11227

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/2306220005/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 28/06/2023
Receipt Date : 22/06/2023
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 : 19/06/2023 To 20/06/2023
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 38°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	51.7	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.
 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



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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/2306220006/A
 Format No : 7.8 F-04
 Party Reference No : NIL
 Report Date : 28/06/2023
 Receipt Date : 22/06/2023
 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 : 15/06/2023 To 16/06/2023
 Time of Monitoring : 06:00 TO 06:00 Hrs.
 Ambient Temperature (°C) : Min. 29°C Max. 41°C
 Surrounding Activity : Human, Vehicular & Other Act.
 Parameter Required : As per work Order
 Coordinates : 25°23'59" & 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	42.7

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

- Day Time is from 6.00 AM to 10.00 PM.
 - Night Time is reckoned between 10.00 PM to 6.00 AM.
 - 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



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Authorized Signatory



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/2306220007/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 28/06/2023
Receipt Date : 22/06/2023
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 : 19/06/2023 To 20/06/2023
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 38°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°20'33" & 74°31'46"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	50.9	40.9

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

End of Report



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Lab Incharge
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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/2306220008/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 28/06/2023
Receipt Date : 22/06/2023
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Nr. Crusher (CCR Building)
Instrument Code : VTL/SLM/02
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/06/2023 To 17/06/2023
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 40°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°19'10" & 74°32'11"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	63.7	54.7

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

- Day Time is from 6.00 AM to 10.00 PM.
 - Night Time is reckoned between 10.00 PM to 6.00 AM.
 - 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



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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/2306220009/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 28/06/2023
Receipt Date : 22/06/2023
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

General Information:-

Sampling Location : Filter Fresh Building
Instrument Code : VTL/SLM/03
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/06/2023 To 17/06/2023
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 40°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : --

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	65.8	57.4

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

- Day Time is from 6.00 AM to 10.00 PM.
 - Night Time is reckoned between 10.00 PM to 6.00 AM.
 - 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



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Lab Incharge
Authorized Signatory



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- Bhiwara Rajasthan

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

Report No. : VTL/N/2306220010/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 28/06/2023
Receipt Date : 22/06/2023
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

General Information:-

Sampling Location : Nr. BFN CCR Building
Instrument Code : VTL/SLM/04
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/06/2023 To 17/06/2023
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 40°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°19'10" & 74°32'22"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	66.7	57.9

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

End of Report



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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/2306220011/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 28/06/2023
Receipt Date : 22/06/2023
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 : 16/06/2023 To 17/06/2023
Time of Monitoring : 06:00 TO 08:00 Hrs.
Ambient Temperature (°C) : Min. 30°C Max. 40°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°18'55" & 74°32'11"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	68.2	59.4

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

- Day Time is from 6.00 AM to 10.00 PM.
 - Night Time is reckoned between 10.00 PM to 6.00 AM.
 - 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



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Lab Incharge
Authorized Signatory



Sample Number : VTL/AN/12
 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/2306220012/A
 Format No : 7.8 F-04
 Party Reference No : NIL
 Report Date : 28/06/2023
 Receipt Date : 22/06/2023
 Sampling Duration : 24 Hrs.
 Sample Collected : VTL Team
 Instrument : Calibrated
 Calibration Status :

General Information:-

Sampling Location : Lake View Lawn
 Instrument Code : VTL/SLM/03
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 15/06/2023 To 16/06/2023
 Time of Monitoring : 06:00 TO 06:00 Hrs.
 Ambient Temperature (°C) : Min. 29°C Max. 41°C
 Surrounding Activity : Human, Vehicular & Other Act.
 Parameter Required : As per work Order
 Coordinates : 25°19'33" & 74°32'32"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	54.9	47.8

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

End of Report



[Signature]
Checked by



RK Yadav
Lab Incharge
Authorized Signatory



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/2306300001/A
 Format No : 7.8 F-04
 Party Reference No : NIL
 Report Date : 03/07/2023
 Receipt Date : 30/06/2023
 Sampling Duration : 24 Hrs.
 Sample Collected : VTL Team
 Instrument : Calibrated
 Calibration Status

General Information:-

Sampling Location : 10 Mtr. Distance From Loading Point in Tiranga Pit
 Instrument Code : VTL/SLM/01
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 28/06/2023 To 29/06/2023
 Time of Monitoring : 06:00 TO 06:00 Hrs.
 Ambient Temperature (°C) : Min. 27°C Max. 36°C
 Surrounding Activity : Human, Vehicular & Other Act.
 Parameter Required : As per work Order
 Coordinates : 25°19'14" & 74°32'7"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	64.2	54.1

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

End of Report



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Lab Incharge
Authorized Signatory



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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/2306300002/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 03/07/2023
Receipt Date : 30/06/2023
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

General Information:-

Sampling Location : 10 Mtr. Distance From Loading Point in Suras Pit
Instrument Code : VTL/SLM/02
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 28/06/2023 To 29/06/2023.
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 27°C Max. 36°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°23'23" & 74°34'9"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	61.8	52.7

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



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VIBRANT
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TEST REPORT



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/2306300003/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 03/07/2023
Receipt Date : 30/06/2023
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

General Information:-

Sampling Location : 10 Mtr. Distance From Loading Point in Dhulkheda Pit
Instrument Code : VTL/SLM/03
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 28/06/2023 To 29/06/2023
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 27°C Max. 36°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : 25°23'40" & 74°34'36"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	64.2	55.1

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

- Day Time is from 6.00 AM to 10.00 PM.
 - Night Time is reckoned between 10.00 PM to 6.00 AM.
 - 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



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Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

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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/2306300004/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 03/07/2023
Receipt Date : 30/06/2023
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

General Information:-

Sampling Location : Raw Material Storage Yard
Instrument Code : VTL/SLM/04
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 28/06/2023 To 29/06/2023
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 27°C Max. 36°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work Order
Coordinates : --

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	60.9	51.7

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.
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End of Report



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Lab Incharge
Authorized Signatory



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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/2306300005/A
 Format No : 7.8 F-04
 Party Reference No : NIL
 Report Date : 03/07/2023
 Receipt Date : 30/06/2023
 Sampling Duration : 24 Hrs.
 Sample Collected : VTL Team
 Instrument : Calibrated
 Calibration Status

General Information:-

Sampling Location : Centrol Store
 Instrument Code : VTL/SLM/05
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 28/06/2023 To 29/06/2023
 Time of Monitoring : 06:00 TO 06:00 Hrs.
 Ambient Temperature (°C) : Min. 27°C Max. 36°C
 Surrounding Activity : Human, Vehicular & Other Act.
 Parameter Required : As per work Order
 Coordinates : 25°19'1" & 74°32'7"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	59.8	50.1

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.
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