

Sample Number : VTL/AA/13
Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Report No. : VTL/A/2403140014/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Staff Canteen
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 25°18'60" & 74°32'30"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 07/03/2024 To 08/03/2024
Time of Monitoring : 21:00 TO 21:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°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	70.06	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	35.93	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	20.04	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.81	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BDL(<1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis, 3rd ed., 1988, Method No. 401	10.85	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	15.26	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BDL(<0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.302	*BDL(<0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2, 1999	*BDL(<5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m³	1

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

End of Report



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TEST REPORT

Sample Number : VTL/AA/13

Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Report No. : VTL/A/2403140014/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Staff Canteen
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 25°18'60" & 74°32'30"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 07/03/2024 To 08/03/2024
Time of Monitoring : 21:00 TO 21:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°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)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.90	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	235.02	µg/m ³	--

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Sample Number : VTL/AA/11

Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Report No. : VTL/A/2403140013/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Tiranga House
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 25°18'58" & 74°32'18"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 07/03/2024 To 08/03/2024
Time of Monitoring : 19:00 TO 19:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°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	73.28	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	35.84	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	21.97	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.99	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BDL(<1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis, 3rd ed., 1988, Method No. 401	11.85	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	16.01	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BDL(<0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.302	*BDL(<0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2, 1999	*BDL(<5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m³	1

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

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Sample Number : VTL/AA/11
Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Report No. : VTL/A/2403140013/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Tiranga House
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 25°18'58" & 74°32'18"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 07/03/2024 To 08/03/2024
Time of Monitoring : 19:00 TO 19:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°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)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.93	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	221.16	µg/m ³	--

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Sample Number : VTL/AA/12

Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Report No. : VTL/A/2403140011/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Switch Yard Station
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 25°18'28" & 74°32'36"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 07/03/2024 To 08/03/2024
Time of Monitoring : 18:30 TO 18:30 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°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	77.15	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	37.58	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	18.45	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.36	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	9.12	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	17.23	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BDL(<0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.302	*BDL(<0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2, 1999	*BDL(<5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m³	1

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

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TEST REPORT

Sample Number : VTL/AA/12

Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Report No. : VTL/A/2403140011/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Switch Yard Station
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 25°18'28" & 74°32'36"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 07/03/2024 To 08/03/2024
Time of Monitoring : 18:30 TO 18:30 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°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)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.69	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	202.97	µg/m ³	--

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Sample Number : VTL/AA/14
Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Report No. : VTL/A/2403140012/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Mineral Benification Plant
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 25°19'11" & 74°32'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 07/03/2024 To 08/03/2024
Time of Monitoring : 18:00 TO 18:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°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	74.97	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	37.37	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	18.39	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.34	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	8.11	µg/m ³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	13.26	µg/m ³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BDL(<0.02)	µg/m ³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BDL(<0.15)	ng/m ³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BDL(<5.0)	ng/m ³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BDL(<0.2)	ng/m ³	1

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

End of Report



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Sample Number : VTL/AA/14
Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Report No. : VTL/A/2403140012/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Mineral Benification Plant
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 25°19'11" & 74°32'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 07/03/2024 To 08/03/2024
Time of Monitoring : 18:00 TO 18:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°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)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.65	mg/m ³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	275.05	µg/m ³	--

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End of Report

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Sample Number : VTL/FD/01

M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Name & Address of the Party :

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

Sample Description : Fugitive Dust Emission Monitoring

General Information :-

Sampling Location : Bentonite Grinding Area (Balling Disc Building (Pellet Plant))
Sample Collected By : VTL Team
Sampling Equipment used : RDS
Instrument Code : VTL/RDS/08
Coordinates : 25°19'2" & 74°32'23"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024
Time of Monitoring : 14:30 TO 22:30 Hrs.
Ambient Temperature (°C) : Min. 16°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Method of Sampling : Lab STP: VTL/STP/02
Sampling Duration : 24 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	445.82	µg/m3

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Sample Number : VTL/FD/02

M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Name & Address of the Party :

Report No. : VTL/FD/2403140007/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024

Sample Description : Fugitive Dust Emission Monitoring

General Information :-

Sampling Location : Coal Pulverize Area(Nr.Nitrogen Plant (Pellet Plant)
Sample Collected By : VTL Team
Sampling Equipment used : RDS
Instrument Code : VTL/RDS/04
Coordinates : --
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024
Time of Monitoring : 10:00 TO 18:00 Hrs.
Ambient Temperature (°C) : Min. 16°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Method of Sampling : Lab STP: VTL/STP/02
Sampling Duration : 24 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	484.68	µg/m3

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Sample Number : VTL/S/02
Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

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

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : Rotary Kiln
Sample Collected By : VTL Team
Date of Sampling : 11/03/2024
Sampling duration (Minutes) : 50 min. (15:10 to 16:00 hrs.)
Stack attached to : Kiln
Make of stack : Concrete
Diameter of stack(m) : 0.872 m
Height of stack(m) : 120 m
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 34°C
Temperature of Stack Gases - Ts (°C) : 116°C
Velocity of Stack Gases (m/sec.) : 6.07
Flow rate of PM (LPM) : 20
Flow rate of Gas (LPM) : 2.0
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : 25°19'6" & 74°32'25"

S.No.	Parameters	Test Method	Results	Units
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	29.12	mg/Nm3

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

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TEST REPORT



Sample Number : VTL/S/01

Name & Address of the Party : M/s Jindal Saw Limited

Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Report No. : VTL/S/2403140001/A

Format No : 7.8 F-03

Party Reference No : NIL

Report Date : 19/03/2024

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

Receipt Date : 14/03/2024

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : Coal Grinding Mill
Sample Collected By : VTL Team
Date of Sampling : 11/03/2024
Sampling duration (Minutes) : 55 min. (10:40 to 11:35 hrs.)
Stack attached to : Coal Mill
Make of stack : SS
Diameter of stack(m) : 0.94 m
Height of stack(m) : 4.0 m
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 26°C
Temperature of Stack Gases - Ts (°C) : 96°C
Velocity of Stack Gases (m/sec.) : 47.05
Flow rate of PM (LPM) : 18
Flow rate of Gas (LPM) : -
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : 25°19'8" & 74°32'27"

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	30.33	mg/Nm ³	50

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

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Sample Number : VTL/S/02

Name & Address of the Party : M/s Jindal Saw Limited

Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Report No. : VTL/S/2403140004/A

Format No : 7.8 F-03

Party Reference No : NIL

Report Date : 19/03/2024

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

Receipt Date : 14/03/2024

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : DG Set 750 KVA
Sample Collected By : VTL Team
Date of Sampling : 11/03/2024
Sampling duration (Minutes) : 26 min. (12:25 to 12:51 hrs.)
Stack attached to : DG Set
Make of stack : SS
Diameter of stack(m) : 250 MM
Height of stack(m) : 6.0 M
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 27°C
Temperature of Stack Gases - Ts (°C) : 98°C
Velocity of Stack Gases (m/sec.) : 11.55
Flow rate of PM (LPM) : 39
Flow rate of Gas (LPM) : 2.0
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : 25°19'5" & 74°32'27"

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	0.10	gm/KW-hr	<0.2
2	Oxide of Nitrogen (NOX)	IS 11255 (P- 7) 2005; RA 2017	0.87	gm/KW-hr	<4.0**
3	Total Hydrocarbon (HC)	USEPA 18: 1996	0.74	gm/KW-hr	**
4	Sulphur Dioxide (SO2)	IS: 11255(P-2): 1985, RA 2019	0.17	gm/KW-hr	Not Specified
5	Carbon Monoxide (CO)	USEPA 10: 1996	0.62	gm/KW-hr	<3.5

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

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TEST REPORT

TC-11227

Sample Number : VTL/S/03

Name & Address of the Party : M/s Jindal Saw Limited

Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Report No. : VTL/S/2403140005/A

Format No : 7.8 F-03

Party Reference No : NIL

Report Date : 19/03/2024

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

Receipt Date : 14/03/2024

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : DG Set 563 KVA
Sample Collected By : VTL Team
Date of Sampling : 11/03/2024
Sampling duration (Minutes) : 41 min. (12:00 to 12:41 hrs.)
Stack attached to : DG Set
Make of stack : SS
Diameter of stack(m) : 150 MM
Height of stack(m) : 3.0 M
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 28°C
Temperature of Stack Gases - Ts (°C) : 104°C
Velocity of Stack Gases (m/sec.) : 7.05
Flow rate of PM (LPM) : 24
Flow rate of Gas (LPM) : 2.0
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : 25°19'4" & 74°32'28"

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	0.08	gm/KW-hr	<0.2
2	Oxide of Nitrogen (NOX)	IS 11255 (P- 7) 2005; RA 2017	1.15	gm/KW-hr	<4.0**
3	Total Hydrocarbon (HC)	USEPA 18: 1996	0.49	gm/KW-hr	**
4	Sulphur Dioxide (SO ₂)	IS: 11255(P-2): 1985, RA 2019	0.77	gm/KW-hr	Not Specified
5	Carbon Monoxide (CO)	USEPA 10: 1996	0.35	gm/KW-hr	<3.5

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

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Sample Number : VTL/WW/30
Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Sample Description : Waste Water
Sampling Location : 15 KLD STP Inlet (Pellet Plant)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000000100F
Report No. : VTL/WW/2403140003/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 12/03/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°18'57" & 74°32'24"

S.No.	Test Parameters	Test Method	Result	Unit
1	pH	IS: 3025 (P-11): 2022	7.96	-
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	62.90	mg/l
3	Oil & Grease	IS:3025 (P-39): 2021	31.10	mg/l
4	Residual Chlorine	IS: 3025 (P-26): 2021	*BDL(<0.5)	mg/l
5	Ammonical Nitrogen (as NH ₃ -N)	IS: 3025 (P-34) : 1988, Sec.4 RA: 2022	6.72	mg/l
6	Total Kjeldahl Nitrogen (as NH ₃)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	3.64	mg/l
7	Nitrate Nitrogen (as NO ₃)	IS: 3025 (P-34): 1988, (Chromotropic Method) Sec.RA:2022	16.58	mg/l
8	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	60.00	mg/l
9	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	296.40	mg/l
10	Sulphide (as S)	IS: 3025 (P-29) :1986 Idometric, RA :2019	11.20	mg/l

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

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TEST REPORT

Sample Number : VTL/WW/30

Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Sample Description : Waste Water

Sampling Location : 15 KLD STP Inlet (Pellet Plant)

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/WW/2403140003/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

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

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°18'57" & 74°32'24"

S.No.	Test Parameters	Test Method	Result	Unit
1	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA. 2019	271.90	mg/l
2	Fecal Coliform	IS 1622, 2009	146.00	MPN/100 ml

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

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TC-11227

Sample Number : VTL/WW/31

M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : 15 KLD STP Outlet (Pellet Plant)
Sample Collected By : VTL Team
Coordinates : 25°19'5" & 74°32'18"

ULR No. : TC1122724000000101F
Report No. : VTL/WW/2403140004/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 12/03/2024
Parameter Required : As per work Order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.36	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	6.30	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BDL(<4.0)	mg/l	10
4	Residual Chlorine	IS: 3025 (P-26): 2021	0.28	mg/l	1
5	Ammonical Nitrogen (as NH ₃ -N)	IS: 3025 (P-34) : 1988, Sec.4 RA: 2022	2.52	mg/l	50
6	Total Kjeldahl Nitrogen (as NH ₃)	IS: 3025 (P-34): 1988, RA 2022 (Macro Kjeldahl Method)	5.32	mg/l	100
7	Nitrate Nitrogen (as NO ₃)	IS: 3025 (P-34): 1988, (Chromotropic Method) Sec.RA:2022	6.05	mg/l	--
8	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	10.50	mg/l	30
9	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	39.52	mg/l	250
10	Sulphide (as S)	IS: 3025 (P-29) :1986 Idometric, RA :2019	0.32	mg/l	2

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

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TEST REPORT

Sample Number : VTL/WW/31

M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : 15 KLD STP Outlet (Pellet Plant)
Sample Collected By : VTL Team
Coordinates : 25°19'5" & 74°32'18"

Report No. : VTL/WW/2403140004/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 12/03/2024
Parameter Required : As per work Order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA. 2019	133.64	mg/l	--
2	Fecal Coliform	IS 1622, 2009	49.00	MPN/100 ml	<1000

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

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TC-11227

Sample Number : VTL/GW/27

Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Sample Description : Water Sample
Sampling Location : Near Balling Disc (Pellet Plant)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC112272400000145F
Report No. : VTL/W/2403140044/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 12/03/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°18'57" & 74°32'18"

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	7.59	--	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	188.38	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	490.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	373.29	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	1679.00	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	187.70	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.26	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	37.68	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.75	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	0.29	mg/l	5.0	15.0



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TEST REPORT

TC-11227

Sample Number : VTL/GW/27

ULR No. : TC1122724000000145F

Report No. : VTL/W/2403140044/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	470.01	mg/l	--	--

*BDL-Below Detection Limit

End of Report

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Sample Number : VTL/GW/27

Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Report No. : VTL/W/2403140044/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 19/03/2024
Period of Analysis : 14/03/2024-19/03/2024
Receipt Date : 14/03/2024
Sampling Date : 12/03/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 25°18'57" & 74°32'18"

Sample Description : Water Sample
Sampling Location : Near Balling Disc (Pellet Plant)
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) BDL(<0.01)	µg/L	-	-

*BDL-Below Detection Limit

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

TC-11227

Sample Number : VTL/GW/28

Name & Address of the Party : M/s Jindal Saw Limited

Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Coal Yard Area (Pellet Plant)

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

ULR No. : TC1122724000000146F

Report No. : VTL/W/2403140045/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

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

Receipt Date : 14/03/2024

Sampling Date : 08/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°19'10" & 74°32'26"

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	7.46	--	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	168.34	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	430.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	350.25	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	1479.00	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	171.52	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.19	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	36.96	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 (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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**VIBRANT***"Experience the unimaginable"***TEST REPORT**

TC-11227

Sample Number : VTL/GW/28

ULR No. : TC112272400000146F

Report No. : VTL/W/2403140045/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	420.01	mg/l	--	--

*BDL-Below Detection Limit

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

Sample Number : VTL/GW/28

Name & Address of the Party : M/s Jindal Saw Limited

Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Coal Yard Area (Pellet Plant)

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2403140045/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

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

Receipt Date : 14/03/2024

Sampling Date : 08/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°19'10" & 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) BDL(<0.01)	µg/L	-	-

*BDL-Below Detection Limit

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

TC-11227

Sample Number : VTL/SW/29

Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Pur Pond

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

ULR No. : TC1122724000000147F

Report No. : VTL/W/2403140046/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

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

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°17'57" & 74°32'13"

S.No.	Test Parameters	Test Method	Results	Units
1	pH value	IS : 3025 (P-11) : 2022	7.34	--
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	4.60	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	937.00	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	248.86	mg/l
5	Sulphate as (SO ₄)	IS: 3025 (P- 24) : 1986, Sec.RA 2022	111.65	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	380.00	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	100.20	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	31.59	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.89	mg/l
11	Nitrate (as NO ₃)	IS: 3025 (P- 34) : 1988 RA 2022	27.63	mg/l
12	Total Coliform	IS 15185; 2016	Present	MPN
13	Total Alkalinity (CaCO ₃)	IS: 3025 (P-23) :1986,RA 2019	100.00	mg/l
14	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.35	mg/l
15	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.51	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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TC-11227

Sample Number : VTL/SW/29

ULR No. : TC1122724000000147F

Report No. : VTL/W/2403140046/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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**VIBRANT***"Experience the unimaginable"***TEST REPORT**

Sample Number : VTL/SW/29

Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara Rajasthan

Sample Description : Water Sample

Sampling Location : Pur Pond

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2403140046/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 19/03/2024

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

Receipt Date : 14/03/2024

Sampling Date : 12/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 25°17'57" & 74°32'13"

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	1.05	mg/l
5	Potassium (as K)	APHA 23rd Edition, 3030D, 3113B, 2017	20.25	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	250.00	mg/l
11	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BDL(<0.02)	mg/l

*BDL-Below Detection Limit

End of Report

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

TC-11227

Sample Number : VTL/AN/04

Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
Village- Pur, Tehsil & District - Bhilwara RajasthanSample Description : Ambient Noise Level Monitoring
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989
Instrument Used : SLMReport No. : VTL/N/2403140021/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status**General Information:-**Sampling Location : Nr. Proportioning (Pellet Plant)
Instrument Code : VTL/SLM/06
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 09/03/2024 To 10/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : 25°19'0" & 74°32'23"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.4	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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TC-11227

Sample Number : VTL/AN/05

Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
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/2403140022/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Nr. Balling Disc(Pellet Plant)
Instrument Code : VTL/SLM/05
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 10/03/2024 To 11/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : 25°19'01" & 74°32'24"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.9	43.9

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

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

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

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

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

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

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TC-11227

Sample Number : VTL/AN/01

Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
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/2403140018/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : DG Room (Pellet Plant)
Instrument Code : VTL/SLM/05
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024 To 09/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : 25°19'04" & 74°32'21"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	63.4	46.7

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

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

TC-11227

Sample Number : VTL/AN/02

Name & Address of the Party : M/s Jindal Saw Limited
Iron Ore Pellet Plant, Khasara No.- 9697/6711,
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/2403140019/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Cooler Area (Pellet Plant)
Instrument Code : VTL/SLM/04
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024 To 09/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : 25°19'7" & 74°32'20"

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	58.4	44.2

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

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

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

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

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

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

TC-11227

Sample Number : VTL/AN/03

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

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

Report No. : VTL/N/2403140020/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 19/03/2024
Receipt Date : 14/03/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Nr. Nitrogen Plant (Pellet Plant)
Instrument Code : VTL/SLM/03
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 08/03/2024 To 09/03/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 12°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : 25°19'3" & 74°32'20"

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

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

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

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

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

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

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

End of Report



Checked by



RK Yadav
Lab Incharge
Authorized Signatory



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Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified**Vibrant Techno Lab Pvt. Ltd.**

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