



TC-6299

## Test Report

Page No. 1/2

Sample Number : VEL/AP/06

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
Araji No-9697/6711, Near Tiranga Hills, District-  
Bhilwara-311802 (Raj)

Name of Sample : Ambient Air

Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403081012

Format No. : 7.8 F-03

Party Reference No. : By Mail

Reporting Date : 15/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

ULR No. : TC629924200001796F

### General Information

Sampling Location : Banera Village  
Sample Collected By : VEL Representative (Mr. Deepak)  
Sampling Equipment used : RDS/FPS  
Instrument Code : VEL/RDS/23 & FPS/31  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 05/03/2024 To 06/03/2024  
Time of Monitoring : 12:30 PM to 12:30 PM  
Ambient Temperature (°C) : Min.25°C, Max.31°C  
Surrounding Activity : Human, Vehicular & Others Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS: 5182 & CPCB Guidelines  
Sampling Duration : 24.0 Hours  
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
Discipline : Chemical					
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	54.75	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	87.53	µg/m3	100
3	Total Suspended Particulate Matter	IS 5182 (P-4)	190.72	µg/m3	Not Specified
4	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	26.07	µg/m3	80
5	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	21.67	µg/m3	80
6	Ammonia as (NH3)	VEL/ENV/STP/155, Issue No.-1, dated on 20/06/22	25.64	µg/m3	400
7	#Ozone as (O3)	IS 5182 (P-9)	21.57	µg/m3	180
8	Benzene as (C6H6)	IS 5182 (P-11)	BLQ(LOQ-0.5)	µg/m3	5
9	Benzo(a)pyrene as (BaP)	IS 5182 (P-12)	BLQ(LOQ-0.5)	ng/m3	1
10	Arsenic as (As)	VEL/ENV/STP/110, Issue No.- 01, Issue date 01/11/2021	BLQ(LOQ-0.1)	ng/m3	6

Reviewed By

*Dushmanta*  
15/3/2024



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TC-6299

## Test Report

Page No. 2/2

Sample Number : VEL/AP/06

Report No. : VEL/AP/2403081012

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
11	Lead as (Pb)	IS 5182 (P-22)	BLQ(LOQ-0.1)	µg/m3	1
12	Nickel as (Ni)	IS 5182 (P-26)	BLQ(LOQ-5.0)	ng/m3	20
13	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.90	mg/m3	4

#-indicates 1 hour monitoring of CO & Ozone

BLQ- Below Limit of Quantification, LOQ- Limit of Quantification.

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

Reviewed By

*Dhruv*  
15/8/2024

Dr. Shiv  
Authorised Signatory  
\*  
15/8/2024  
Authorised Signatory

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TC-6299

## Test Report

Page No. 1/2

Sample Number : VEL/AP/07

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-  
 Bhilwara-311802 (Raj)

Name of Sample : Ambient Air

Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403081013

Format No. : 7.8 F-03

Party Reference No. : By Mail

Reporting Date : 15/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

ULR No. : TC629924200001797F

### General Information

Sampling Location : Mahua Khurd Village

Sample Collected By : VEL Representative (Mr. Deepak)

Sampling Equipment used : RDS/FPS

Instrument Code : VEL/RDS/16 & FPS/23

Instrument Calibration Status : Calibrated

Meteorological condition during monitoring : Clear Sky

Date of Monitoring : 05/03/2024 To 06/03/2024

Time of Monitoring : 01:20 PM to 01:20 PM

Ambient Temperature (°C) : Min.25°C, Max.31°C

Surrounding Activity : Human, Vehicular & Others Activities

Scope of Monitoring : Regulatory Requirement

Sampling & Analysis Protocol : IS: 5182 & CPCB Guidelines

Sampling Duration : 24.0 Hours

Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
Discipline : Chemical					
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	52.47	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	94.35	µg/m3	100
3	Total Suspended Particulate Matter	IS 5182 (P-4)	213.18	µg/m3	Not Specified
4	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	33.21	µg/m3	80
5	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	21.90	µg/m3	80
6	Ammonia as (NH3)	VEL/ENV/STP/155, Issue No.-1, dated on 20/06/22	22.31	µg/m3	400
7	#Ozone as (O3)	IS 5182 (P-9)	17.36	µg/m3	180
8	Benzene as (C6H6)	IS 5182 (P-11)	BLQ(LOQ-0.5)	µg/m3	5
9	Benzo(a)pyrene as (BaP)	IS 5182 (P-12)	BLQ(LOQ-0.5)	ng/m3	1
10	Arsenic as (As)	VEL/ENV/STP/110, Issue No.- 01, Issue date 01/11/2021	BLQ(LOQ-0.1)	ng/m3	6

Reviewed By

15/3/2024

Authorized Signatory  
 Prakash Singh  
 Authorized Signatory

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VEL/ENV/STP/155, Issue No.-1, dated on 20/06/22



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## Test Report

Page No. 2/2

Sample Number : VEL/AP/07

Report No. : VEL/AP/2403081013

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
11	Lead as (Pb)	IS 5182 (P-22)	BLQ(LOQ-0.1)	µg/m3	1
12	Nickel as (Ni)	IS 5182 (P-26)	BLQ(LOQ-5.0)	ng/m3	20
13	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.95	mg/m3	4

#-indicates 1 hour monitoring of CO & Ozone

BLQ- Below Limit of Quantification, LOQ- Limit of Quantification.

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

Reviewed By

Dr. Sivakumar  
 15/8/2024

VARDAN ENVIROLAB  
 Dr. Sivakumar  
 Authorized Signatory  
 \*  
 Sivakumar  
 Authorized Signatory

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VEL/NITRIPV30602



## Test Report

Page No. 1/2

Sample Number : VEL/AP/05

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-  
 Bhilwara-311802 (Raj)

Name of Sample : Ambient Air  
 Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403081011  
 Format No : 7.8 F-03  
 Party Reference No : By Mail  
 Reporting Date : 15/03/2024  
 Period of Analysis : 08/03/2024-14/03/2024  
 Receipt Date : 08/03/2024  
 ULR No. : TC629924200001795F

### General Information

Sampling Location : Chimanpura Village  
 Sample Collected By : VEL Representative (Mr. Deepak)  
 Sampling Equipment used : RDS/FPS  
 Instrument Code : VEL/RDS/25 & FPS/16  
 Instrument Calibration Status : Calibrated  
 Meteorological condition during monitoring : Clear Sky  
 Date of Monitoring : 05/03/2024 To 06/03/2024  
 Time of Monitoring : 02:30 PM to 02:30 PM  
 Ambient Temperature (°C) : Min.25°C, Max.31°C  
 Surrounding Activity : Human, Vehicular & Others Activities  
 Scope of Monitoring : Regulatory Requirement  
 Sampling & Analysis Protocol : IS: 5182 & CPCB Guidelines  
 Sampling Duration : 24.0 Hours  
 Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
<b>Discipline : Chemical</b>					
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	52.07	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	95.61	µg/m3	100
3	Total Suspended Particulate Matter	IS 5182 (P-4)	234.95	µg/m3	Not Specified
4	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	26.70	µg/m3	80
5	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	20.32	µg/m3	80
6	Ammonia as (NH3)	VEL/ENV/STP/155, Issue No.-1, dated on 20/06/22	26.86	µg/m3	400
7	#Ozone as (O3)	IS 5182 (P-9)	23.14	µg/m3	180
8	Benzene as (C6H6)	IS 5182 (P-11)	BLQ(LOQ-0.5)	µg/m3	5
9	Benzo(a)pyrene as (BaP)	IS 5182 (P-12)	BLQ(LOQ-0.5)	ng/m3	1
10	Arsenic as (As)	VEL/ENV/STP/110, Issue No.- 01, Issue date 01/11/2021	BLQ(LOQ-0.1)	ng/m3	6

Reviewed By

15/3/2024

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Scan to view Sample



VEL/AP/2403081011



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## Test Report

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Sample Number : VEL/AP/05

Report No. : VEL/AP/2403081011

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
11	Lead as (Pb)	IS 5182 (P-22)	BLQ(LOQ-0.1)	µg/m3	1
12	Nickel as (Ni)	IS 5182 (P-26)	BLQ(LOQ-0.5)	ng/m3	20
13	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.93	mg/m3	4

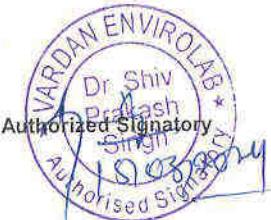
#-indicates 1 hour monitoring of CO & Ozone

BLQ- Below Limit of Quantification, LOQ- Limit of Quantification.

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

Reviewed By

  
 Dushman  
 15/3/2024

  
 VARDAN ENVIROLAB  
 Dr. Shiv  
 Prakash  
 Singh  
 15/03/2024  
 Authorized Signatory  
 Authorised Signatory

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Scan to view Scope





TC-6299

## Test Report

Page No. 1/2

Sample Number : VEL/AP/08

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-  
 Bhilwara-311802 (Raj)

Name of Sample : Ambient Air  
 Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403081014  
 Format No : 7.8 F-03  
 Party Reference No : By Mail  
 Reporting Date : 15/03/2024  
 Period of Analysis : 08/03/2024-14/03/2024  
 Receipt Date : 08/03/2024  
 ULR No. : TC629924200001798F

### General Information

Sampling Location : Mandal Village  
 Sample Collected By : VEL Representative (Mr. Deepak)  
 Sampling Equipment used : RDS/FPS  
 Instrument Code : VEL/RDS/27 & FPS/32  
 Instrument Calibration Status : Calibrated  
 Meteorological condition during monitoring : Clear Sky  
 Date of Monitoring : 05/03/2024 To 06/03/2024  
 Time of Monitoring : 11:30 AM to 11:30 AM  
 Ambient Temperature (°C) : Min.25°C, Max.31°C  
 Surrounding Activity : Human, Vehicular & Others Activities  
 Scope of Monitoring : Regulatory Requirement  
 Sampling & Analysis Protocol : IS: 5182 & CPCB Guidelines  
 Sampling Duration : 24.0 Hours  
 Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
<b>Discipline : Chemical</b>					
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	52.47	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	95.08	µg/m3	100
3	Total Suspended Particulate Matter	IS 5182 (P-4)	266.58	µg/m3	Not Specified
4	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	28.81	µg/m3	80
5	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	20.21	µg/m3	80
6	Ammonia as (NH3)	VEL/ENV/STP/155, Issue No.-1, dated on 20/06/22	26.80	µg/m3	400
7	#Ozone as (O3)	IS 5182 (P-9)	21.57	µg/m3	180
8	Benzene as (C6H6)	IS 5182 (P-11)	BLQ(LOQ-0.5)	µg/m3	5
9	Benzo(a)pyrene as (BaP)	IS 5182 (P-12)	BLQ(LOQ-0.5)	ng/m3	1
10	Arsenic as (As)	VEL/ENV/STP/110, Issue No.- 01, Issue date 01/11/2021	BLQ(LOQ-0.1)	ng/m3	6

Reviewed By

15/3/2024

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Authorised Signatory  
 Prakash Singh  
 Authorised Signatory

VEL/ENV/STP/155, Issue No.-1, dated on 20/06/22



TC-6299

## Test Report

Page No. 2/2

Sample Number : VEL/AP/08

Report No. : VEL/AP/2403081014

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
11	Lead as (Pb)	IS 5182 (P-22)	BLQ(LOQ-0.1)	µg/m3	1
12	Nickel as (Ni)	IS 5182 (P-26)	BLQ(LOQ-5.0)	ng/m3	20
13	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.87	mg/m3	4

#-indicates 1 hour monitoring of CO & Ozone

BLQ- Below Limit of Quantification, LOQ- Limit of Quantification.

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

Reviewed By

*Dushyant*  
15/3/2024

RDAN ENVIROLAB \*  
 Authorised Signatory  
 Shiv  
 Prakash  
 Singh  
 Authorised Signatory

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TC-6299

## Test Report

Page No. 1/2

Sample Number : VEL/AP/04

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-  
 Bhilwara-311802 (Raj)

Name of Sample : Ambient Air

Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403081010

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

ULR No. : TC629924200001794F

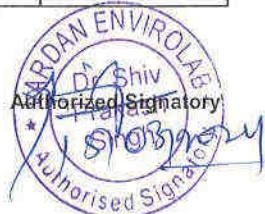
### General Information

Sampling Location	: Lampiya Village
Sample Collected By	: VEL Representative (Mr. Deepak)
Sampling Equipment used	: RDS/FPS
Instrument Code	: VEL/RDS/27 & FPS/32
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 04/03/2024 To 05/03/2024
Time of Monitoring	: 01:00 PM to 01:00 PM
Ambient Temperature (°C)	: Min.25°C, Max.31°C
Surrounding Activity	: Human, Vehicular & Others Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS: 5182 & CPCB Guidelines
Sampling Duration	: 24.0 Hours
Parameter Required	: As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
<b>Discipline : Chemical</b>					
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	55.01	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	89.43	µg/m3	100
3	Total Suspended Particulate Matter	IS 5182 (P-4)	281.90	µg/m3	Not Specified
4	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	29.39	µg/m3	80
5	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	22.51	µg/m3	80
6	Ammonia as (NH3)	VEL/ENV/STP/155, Issue No.-1, dated on 20/06/22	23.43	µg/m3	400
7	#Ozone as (O3)	IS 5182 (P-9)	18.94	µg/m3	180
8	Benzene as (C6H6)	IS 5182 (P-11)	BLQ(LOQ-0.5)	µg/m3	5
9	Benzo(a)pyrene as (BaP)	IS 5182 (P-12)	BLQ(LOQ-0.5)	ng/m3	1
10	Arsenic as (As)	VEL/ENV/STP/110, Issue No.- 01, Issue date 01/11/2021	BLQ(LOQ-0.1)	ng/m3	6

Reviewed By

  
 15/3/2024

  
 VARDAN ENVIROLAB  
 Authorized Signatory  
 Shiv  
 Authorized Signatory

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TC-6299

## Test Report

Page No. 2/2

Sample Number : VEL/AP/04

Report No. : VEL/AP/2403081010

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
11	Lead as (Pb)	IS 5182 (P-22)	BLQ(LOQ-0.1)	µg/m3	1
12	Nickel as (Ni)	IS 5182 (P-26)	BLQ(LOQ-5.0)	ng/m3	20
13	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.89	mg/m3	4

#-indicates 1 hour monitoring of CO & Ozone

BLQ- Below Limit of Quantification, LOQ- Limit of Quantification.

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

Reviewed By

*Kushwan*  
15/3/2024

RDAN ENVIROLAB  
Authorized Signatory  
Shiv Prakash  
Authorized Signatory

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## Test Report

Page No. 1/2

Sample Number : VEL/AP/03

**Name & Address of the Party** : M/s Jindal Saw Limited (Lampiya Mine)  
Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ambient Air  
Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403081009  
Format No : 7.8 F-03  
Party Reference No : By Mail  
Reporting Date : 15/03/2024  
Period of Analysis : 08/03/2024-14/03/2024  
Receipt Date : 08/03/2024  
ULR No. : TC629924200001793F

## General Information

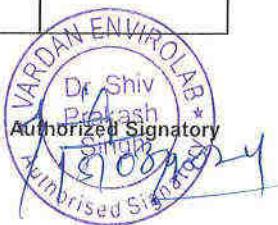
<b>Sampling Location</b>	: Kamalpura Village
<b>Sample Collected By</b>	: VEL Representative (Mr. Deepak)
<b>Sampling Equipment used</b>	: RDS/FPS
<b>Instrument Code</b>	: VEL/RDS/16 & FPS/23
<b>Instrument Calibration Status</b>	: Calibrated
<b>Meteorological condition during monitoring</b>	: Clear Sky
<b>Date of Monitoring</b>	: 04/03/2024 To 05/03/2024
<b>Time of Monitoring</b>	: 12:20 PM To 12:20 PM
<b>Ambient Temperature (°C)</b>	: Min.25°C, Max.31°C
<b>Surrounding Activity</b>	: Human, Vehicular & Others Activities
<b>Scope of Monitoring</b>	: Regulatory Requirement
<b>Sampling &amp; Analysis Protocol</b>	: IS: 5182 & CPCB Guidelines
<b>Sampling Duration</b>	: 24.0 Hours
<b>Parameter Required</b>	: As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
<b>Discipline : Chemical</b>					
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	53.94	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	91.75	µg/m3	100
3	Total Suspended Particulate Matter	IS 5182 (P-4)	249.52	µg/m3	Not Specified
4	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	26.69	µg/m3	80
5	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	19.40	µg/m3	80
6	Ammonia as (NH3)	VEL/ENV/STP/155, Issue No.-1, dated on 20/06/22	25.45	µg/m3	400
7	#Ozone as (O3)	IS 5182 (P-9)	21.57	µg/m3	180
8	Benzene as (C6H6)	IS 5182 (P-11)	BLQ(LOQ-0.5)	µg/m3	5
9	Benzo(a)pyrene as (BaP)	IS 5182 (P-12)	BLQ(LOQ-0.5)	ng/m3	1
10	Arsenic as (As)	VEL/ENV/STP/110, Issue No.- 01, Issue date 01/11/2021	BLQ(LOQ-0.1)	ng/m3	6

Reviewed By

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## Test Report

Page No. 2/2

Sample Number : VEL/AP/03

Report No. : VEL/AP/2403081009

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
11	Lead as (Pb)	IS 5182 (P-22)	BLQ(LOQ-0.1)	µg/m3	1
12	Nickel as (Ni)	IS 5182 (P-26)	BLQ(LOQ-5.0)	ng/m3	20
13	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.93	mg/m3	4

#-indicates 1 hour monitoring of CO & Ozone

BLQ- Below Limit of Quantification, LOQ- Limit of Quantification.

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

Reviewed By

*Dharmesh*  
15/3/2024



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TC-6299

## Test Report

Page No. 1/2

Sample Number : VEL/AP/02

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ambient Air

Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403081008

Format No. : 7.8 F-03

Party Reference No. : By Mail

Reporting Date : 15/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

ULR No. : TC629924200001792F

### General Information

Sampling Location	: Devpura Village
Sample Collected By	: VEL Representative (Mr. Deepak)
Sampling Equipment used	: RDS/FPS
Instrument Code	: VEL/RDS/25 & FPS/16
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 04/03/2024 To 05/03/2024
Time of Monitoring	: 02:40 PM to 02:40 PM
Ambient Temperature (°C)	: Min.25°C, Max.31°C
Surrounding Activity	: Human, Vehicular & Others Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS: 5182 & CPCB Guidelines
Sampling Duration	: 24.0 Hours
Parameter Required	: As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
<b>Discipline : Chemical</b>					
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	58.69	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	94.39	µg/m3	100
3	Total Suspended Particulate Matter	IS 5182 (P-4)	219.08	µg/m3	Not Specified
4	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	28.97	µg/m3	80
5	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	16.61	µg/m3	80
6	Ammonia as (NH3)	VEL/ENV/STP/155, Issue No.-1, dated on 20/06/22	22.79	µg/m3	400
7	#Ozone as (O3)	IS 5182 (P-9)	20.51	µg/m3	180
8	Benzene as (C6H6)	IS 5182 (P-11)	BLQ(LOQ-0.5)	µg/m3	5
9	Benzo(a)pyrene as (BaP)	IS 5182 (P-12)	BLQ(LOQ-0.5)	ng/m3	1
10	Arsenic as (As)	VEL/ENV/STP/110, Issue No.- 01, Issue date 01/11/2021	BLQ(LOQ-0.1)	ng/m3	6

Reviewed By

  
15/3/2024

  
Authorized Signatory

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## Test Report

Page No. 2/2

Sample Number : VEL/AP/02

Report No. : VEL/AP/2403081008

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
11	Lead as (Pb)	IS 5182 (P-22)	BLQ(LOQ-0.1)	µg/m3	1
12	Nickel as (Ni)	IS 5182 (P-26)	BLQ(LOQ-5.0)	ng/m3	20
13	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.95	mg/m3	4

#-indicates 1 hour monitoring of CO & Ozone

BLQ- Below Limit of Quantification, LOQ- Limit of Quantification.

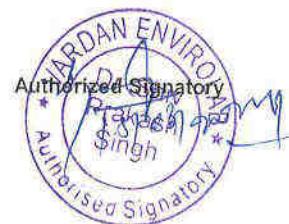
\*\*\*End of Report\*\*\*

Reviewed By

  
 15/3/2024

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TC-6299

## Test Report

Page No. 1/2

Sample Number : VEL/AP/01

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-  
 Bhilwara-311802 (Raj)

Name of Sample : Ambient Air

Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403081007

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

ULR No. : TC629924200001791F

### General Information

Sampling Location : Jaliya Village

Sample Collected By : VEL Representative (Mr. Deepak)

Sampling Equipment used : RDS/FPS

Instrument Code : VEL/RDS/23 & FPS/31

Instrument Calibration Status : Calibrated

Meteorological condition during monitoring : Clear Sky

Date of Monitoring : 04/03/2024 To 05/03/2024

Time of Monitoring : 01:00 PM to 01:00 PM

Ambient Temperature (°C) : Min.25°C, Max.31°C

Surrounding Activity : Human, Vehicular & Others Activities

Scope of Monitoring : Regulatory Requirement

Sampling & Analysis Protocol : IS: 5182 & CPCB Guidelines

Sampling Duration : 24.0 Hours

Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
<b>Discipline : Chemical</b>					
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	56.07	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	93.28	µg/m3	100
3	Total Suspended Particulate Matter	IS 5182 (P-4)	255.93	µg/m3	Not Specified
4	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	30.24	µg/m3	80
5	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	18.26	µg/m3	80
6	Ammonia as (NH3)	VEL/ENV/STP/155, Issue No.-1, dated on 20/06/22	26.69	µg/m3	400
7	#Ozone as (O3)	IS 5182 (P-9)	19.46	µg/m3	180
8	Benzene as (C6H6)	IS 5182 (P-11)	BLQ(LOQ-0.5)	µg/m3	5
9	Benzo(a)pyrene as (BaP)	IS 5182 (P-12)	BLQ(LOQ-0.5)	ng/m3	1
10	Arsenic as (As)	VEL/ENV/STP/110, Issue No.- 01, Issue date 01/11/2021	BLQ(LOQ-0.1)	ng/m3	6

Reviewed By

15/3/2024

Authorized Signatory  
 15/3/2024

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TC-6299

## Test Report

Sample Number : VEL/AP/01

Report No. : VEL/AP/2403081007

Page No. 2/2

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
11	Lead as (Pb)	IS 5182 (P-22)	BLQ(LOQ-0.1)	µg/m3	1
12	Nickel as (Ni)	IS 5182 (P-26)	BLQ(LOQ-5.0)	ng/m3	20
13	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.92	mg/m3	4

#-indicates 1 hour monitoring of CO & Ozone

BLQ- Below Limit of Quantification, LOQ- Limit of Quantification.

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

Reviewed By

  
 15/3/2024

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- Scan to view Scope



Authorized Signatory





TC-6299

## Test Report

Page No. 1/1

Sample Number : VEL/AP/02

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-  
 Bhilwara-311802 (Raj)

Name of Sample : Ambient Air

Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403281002

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 02/04/2024

Period of Analysis : 28/03/2024-02/04/2024

Receipt Date : 28/03/2024

ULR No. : TC629924200002421F

### General Information

Sampling Location : Lampiya Village

Sample Collected By : VEL Representative (Mr. Deepak)

Sampling Equipment used : RDS/FPS

Instrument Code : VEL/RDS/25 & FPS/16

Instrument Calibration Status : Calibrated

Meteorological condition during monitoring : Clear Sky

Date of Monitoring : 26/03/2024 To 27/03/2024

Time of Monitoring : 11:45 AM to 11:45 AM

Ambient Temperature (°C) : Min.25°C, Max.31°C

Surrounding Activity : Human, Vehicular & Others Activities

Scope of Monitoring : Regulatory Requirement

Sampling & Analysis Protocol : IS: 5182 & CPCB Guidelines

Sampling Duration : 24.0 Hours

Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
Discipline : Chemical					
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	53.48	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	88.67	µg/m3	100
3	Total Suspended Particulate Matter	IS 5182 (P-4)	221.76	µg/m3	Not Specified
4	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	25.15	µg/m3	80
5	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	12.99	µg/m3	80
6	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.81	mg/m3	4

#-Indicates 1 hour monitoring of CO.

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

Reviewed By

21/4/2024

Dr. Shiv  
 Prakash  
 Singh  
 Authorized Signatory  
 21/4/2024

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TC-6299

## Test Report

Sample Number : VEL/AP/01

Page No. 1/1

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-  
 Bhilwara-311802 (Raj)

Report No. : VEL/AP/2403281001  
 Format No : 7.8 F-03  
 Party Reference No : By Mail  
 Reporting Date : 02/04/2024  
 Period of Analysis : 28/03/2024-02/04/2024  
 Receipt Date : 28/03/2024  
 ULR No. : TC629924200002420F

Name of Sample : Ambient Air  
 Sample Group : Atmospheric Pollution

### General Information

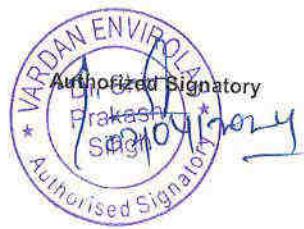
Sampling Location : Kamalpur Village  
 Sample Collected By : VEL Representative (Mr. Deepak)  
 Sampling Equipment used : RDS/FPS  
 Instrument Code : VEL/RDS/16 & FPS/23  
 Instrument Calibration Status : Calibrated  
 Meteorological condition during monitoring : Clear Sky  
 Date of Monitoring : 26/03/2024 To 27/03/2024  
 Time of Monitoring : 11:25 AM to 11:25 AM  
 Ambient Temperature (°C) : Min.25°C, Max.31°C  
 Surrounding Activity : Human, Vehicular & Others Activities  
 Scope of Monitoring : Regulatory Requirement  
 Sampling & Analysis Protocol : IS: 5182 & CPCB Guidelines  
 Sampling Duration : 24.0 Hours  
 Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
Discipline : Chemical					
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	55.50	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	83.83	µg/m3	100
3	Total Suspended Particulate Matter	IS 5182 (P-4)	221.60	µg/m3	Not Specified
4	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	26.40	µg/m3	80
5	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	12.95	µg/m3	80
6	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.77	mg/m3	4

#-Indicates 1 hour monitoring of CO.

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

Reviewed By



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- Scan to view Scope -





TC-6299

## Test Report

Page No. 1/1

Sample Number : VEL/AP/04

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-  
 Bhilwara-311802 (Raj)

Name of Sample : Ambient Air

Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403281004  
 Format No : 7.8 F-03  
 Party Reference No : By Mail  
 Reporting Date : 02/04/2024  
 Period of Analysis : 28/03/2024-02/04/2024  
 Receipt Date : 28/03/2024  
 ULR No. : TC629924200002423F

### General Information

Sampling Location

: Devpura Village

Sample Collected By

: VEL Representative (Mr. Deepak)

Sampling Equipment used

: RDS/FPS

Instrument Code

: VEL/RDS/27 & FPS/32

Instrument Calibration Status

: Calibrated

Meteorological condition during monitoring

: Clear Sky

Date of Monitoring

: 26/03/2024 To 27/03/2024

Time of Monitoring

: 12:30 PM to 12:30 PM

Ambient Temperature (°C)

: Min.25°C, Max.31°C

Surrounding Activity

: Human,Vehicular & Others Activities

Scope of Monitoring

: Regulatory Requirement

Sampling & Analysis Protocol

: IS: 5182 & CPCB Guidelines

Sampling Duration

: 24.0 Hours

Parameter Required

: As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
Discipline : Chemical					
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	51.81	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	89.47	µg/m3	100
3	Total Suspended Particulate Matter	IS 5182 (P-4)	241.31	µg/m3	Not Specified
4	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	24.77	µg/m3	80
5	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	13.19	µg/m3	80
6	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.74	mg/m3	4

#-Indicates 1 hour monitoring of CO.

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

Reviewed By



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TC-6299

## Test Report

Page No. 1/1

Sample Number : VEL/AP/03

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-  
 Bhilwara-311802 (Raj)

Name of Sample : Ambient Air

Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403281003  
 Format No. : 7.8 F-03  
 Party Reference No. : By Mail  
 Reporting Date : 02/04/2024  
 Period of Analysis : 28/03/2024-02/04/2024  
 Receipt Date : 28/03/2024  
 ULR No. : TC629924200002422F

### General Information

Sampling Location : Jaliya Village  
 Sample Collected By : VEL Representative (Mr. Deepak)  
 Sampling Equipment used : RDS/FPS  
 Instrument Code : VEL/RDS/23 FPS/31  
 Instrument Calibration Status : Calibrated  
 Meteorological condition during monitoring : Clear Sky  
 Date of Monitoring : 26/03/2024 To 27/03/2024  
 Time of Monitoring : 12:15 AM to 12:25 AM  
 Ambient Temperature (°C) : Min.25°C, Max.31°C  
 Surrounding Activity : Human, Vehicular & Others Activities  
 Scope of Monitoring : Regulatory Requirement  
 Sampling & Analysis Protocol : IS: 5182 & CPCB Guidelines  
 Sampling Duration : 24.0 Hours  
 Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
Discipline : Chemical					
1	Particulate Matter as (PM2.5)	IS 5182 (P-24)	52.47	µg/m3	60
2	Particulate Matter as (PM10)	IS 5182 (P-23)	91.10	µg/m3	100
3	Total Suspended Particulate Matter	IS 5182 (P-4)	231.48	µg/m3	Not Specified
4	Nitrogen Dioxide as (NO2)	IS 5182 (P-6)	23.01	µg/m3	80
5	Sulphur Dioxide as (SO2)	IS 5182 (P-2)	14.91	µg/m3	80
6	#Carbon Monoxide (by NDIR)	IS 5182 (P-10)	0.88	mg/m3	4

#-Indicates 1 hour monitoring of CO.

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

Reviewed By

21/03/2024

Dr. Shiv Prakash  
 Authorized Signatory  
 21/03/2024  
 Authorised

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TC-6299

## Test Report

Page No. 1/4

Sample Number : VEL/W/01

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water

Sample Group : Water/Residues and contaminants in Water

Location : Jaliya Village

Sample Collected by : VEL Representative (Mr. Deepak)

Environmental Condition :  $25\pm2^{\circ}\text{C}$

Sampling and Analysis : IS, APHA & STP,,,

Protocol

Report No. : VEL/W/2403081002

Format No : 7.8 F 03

Party Reference No : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 04/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

ULR No. : TC629924200001824F

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits

### Discipline : Chemical

1	pH (at 25 °C)	IS:3025:Part 11: 2022,(Electrode Method)	7.26	-	6.5-8.5	No relaxation
2	Colour,Max	IS 3025 :Part-14:1983(Visual Comparison Method)	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity,Max	IS: 3025:P-10:1984(Nephelometric Method)	BLQ(LOQ-1.0)	NTU	1	5
4	Odour	IS:3025 Part-5: 2018	Agreeable	-	Agreeable	Agreeable
5	Taste	IS: 3025:P-8:1984	Agreeable	-	Agreeable	Agreeable
6	Total Hardness (as CaCO <sub>3</sub> ),Max	IS:3025:P-21:2009(EDTA Titrimetric Method)	342.26	mg/L	200	600
7	Calcium (as Ca),Max	IS: 3025 :P-40: 1991(EDTA Titrimetric Method)	79.14	mg/L	75	200
8	Total Alkalinity (as CaCO <sub>3</sub> ),Max	IS:3025:Part 23: 1986(Indicator Method)	406.60	mg/L	200	600
9	Chloride (as Cl),Max	IS:3025 :Part 32:1988(Argentometric Method)	187.60	mg/L	250	1000
10	Residual Free Chlorine (RFC),Min	IS:3025:P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.1 5)	mg/L	0.2	1
11	Cyanide (as CN),Max	IS:3025 (P-27/Sec-1):2021(Pyridine Barbituric Acid Method)	BLQ(LOQ-0.0 2)	mg/L	0.05	No relaxation
12	Magnesium (as Mg),Max	APHA 23rd Edition 2017:, 3500 Mg	35.09	mg/L	30	100

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## Test Report

Page No. 2/4

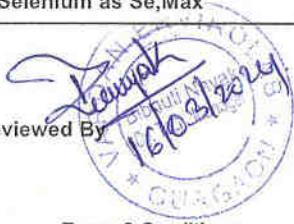
Sample Number : VEL/W/01

Report No. :

VEL/W/2403081002

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
12		B,(By Calculation Method)				
13	Total Dissolved Solids at 180°C,Max	IS: 3025:P-16:1984(Gravimetric Method)	862.00	mg/L	500	2000
14	Sulphate (as SO <sub>4</sub> ),Max	IS:3025 (Part 24/Sec-1):2022,Turbidity Method	137.57	mg/L	200	400
15	Fluoride (as F),Max	APHA 23rd Edition 2017: 4500 F. D(SPADNS Method)	0.39	mg/L	1.0	1.5
16	Nitrate (as NO <sub>3</sub> ),Max	APHA 23rd Edition:2017,4500 NO <sub>3</sub> . B (Screening Method)	16.78	mg/L	45	No relaxation
17	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH),Max	Clause-6 of IS 3025 (P-43/Sec-1) :2022 (With Chloroform Extraction Method)	BLQ(LOQ-0.005)	mg/L	0.001	0.002
18	Anionic Detergents (as MBAS),Max	IS:3025 :P-68:: 2019(Methylene Blue Method)	BLQ(LOQ-0.05)	mg/L	0.2	1.0
19	Iron,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
20	Aluminium as Al,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.05)	mg/L	0.03	0.2
21	Boron as B,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
22	Zinc,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
23	Total Chromium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	No relaxation
24	Copper,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	1.5
25	Manganese,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
26	Cadmium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.003	No relaxation
27	Lead,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.01	No relaxation
28	Selenium as Se,Max	VEL/STP/ICP/W-01,Issue	BLQ(LOQ-0.0)	mg/L	0.01	No relaxation

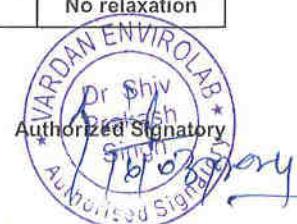
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Dr. Shiv

Authorised Signatory

Shiv

Authorised Signatory





## Test Report

Page No. 3/4

Sample Number : VEL/W/01

Report No. : VEL/W/2403081002

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
28		No-01, Issue Date-01/11/2021	01)			
29	Arsenic as As,Max	VEL/STP/ICP/W-01, Issue No-01, Issue Date-01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No relaxation
30	Mercury as Hg,Max	VEL/STP/ICP/W-01, Issue No-01, Issue Date-01/11/2021	BLQ(LOQ-0.005)	mg/L	0.001	No relaxation
31	Mineral Oil,Max	IS 3025 (Part 39): 2021 (Infrared Spectroscopic Method)	BLQ(LOQ-0.1)	mg/L	1.0	No relaxation
32	Total Pesticides	VEL/STP/W-01, Issue No-01, Issue date 01/11/2021	BLQ(LOQ-0.01)	µg/L		

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16/03/2024

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Authorized Signatory

16/03/2024  
 Singh

VEL/W/2403081002



## Test Report

Page No. 4/4

Sample Number: VEL/W/01

Report No. : VEL/W/2403081002

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
<b>Discipline : Biological</b>						
33	Coliform	APHA, 23rd Edition 2017, 9221B	<1.8	MPN/10 0ml	--	--
34	Escherichia coli	APHA, 23rd Edition2017, 9221F	<1.8	MPN/10 0ml	--	--

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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



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## Test Report

Page No. 1/1

Sample Number : VEL/W/01

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water  
 Sample Group : Water/Residues and contaminants in Water  
 Location : Jaliya Village  
 Sample Collected by : VEL Representative (Mr. Deepak)  
 Environmental Condition :  $25\pm2^{\circ}\text{C}$   
 Sampling and Analysis : IS, APHA & STP,,,  
 Protocol

Report No. : VEL/W/2403081002/N  
 Format No : 7.8 F 03  
 Party Reference No : By Mail  
 Reporting Date : 16/03/2024  
 Period of Analysis : 08/03/2024-14/03/2024  
 Receipt Date : 08/03/2024  
 Sampling Date : 04/03/2024  
 Sampling Quantity : 10 Ltrs+250 ml  
 Sampling Type : Grab

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
Discipline : Chemical						
1	Calcium Hardness	IS:3025:P-21:2009(EDTA Titrimetric Method)	197.46	mg/L	--	--
2	Polynuclear Aromatic Hydrocarbin(as PAH)	VEL/STP/W-01, Issue No-01, Issue date 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.0001	No relaxation

BLQ-Below Limit of Quantification,LOQ-Limit of Quantification.

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## Test Report

Page No. 1/4

Sample Number : VEL/W/02

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water  
Sample Group : Water/Residues and contaminants in Water  
Location : Devpura Village  
Sample Collected by : VEL Representative (Mr. Deepak)  
Environmental Condition :  $25\pm2^{\circ}\text{C}$   
Sampling and Analysis : IS, APHA & STP,,,  
Protocol

Report No. : VEL/W/2403081003

Format No : 7.8 F 03

Party Reference No : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 04/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

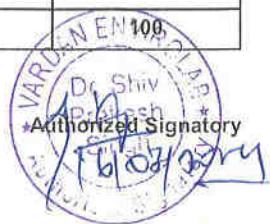
ULR No. : TC629924200001825F

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits

### Discipline : Chemical

1	pH (at 25 °C)	IS:3025:Part 11: 2022,(Electrode Method)	7.17	-	6.5-8.5	No relaxation
2	Colour,Max	IS 3025 :Part-14:1983(Visual Comparison Method)	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity,Max	IS: 3025:P-10:1984(Nephelometric Method)	BLQ(LOQ-1.0)	NTU	1	5
4	Odour	IS:3025 Part-5: 2018	Agreeable	-	Agreeable	Agreeable
5	Taste	IS: 3025:P-8:1984	Agreeable	-	Agreeable	Agreeable
6	Total Hardness (as CaCO <sub>3</sub> ),Max	IS:3025:P-21:2009(EDTA Titrimetric Method)	392.72	mg/L	200	600
7	Calcium (as Ca),Max	IS: 3025 :P-40: 1991(EDTA Titrimetric Method)	95.84	mg/L	75	200
8	Total Alkalinity (as CaCO <sub>3</sub> ),Max	IS:3025:Part 23: 1986(Indicator Method)	355.77	mg/L	200	600
9	Chloride (as Cl),Max	IS:3025 :Part 32:1988(Argentometric Method)	92.23	mg/L	250	1000
10	Residual Free Chlorine (RFC),Min	IS:3025:P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.1 5)	mg/L	0.2	1
11	Cyanide (as CN),Max	IS:3025 (P-27/Sec-1):2021(Pyridine Barbituric Acid Method)	BLQ(LOQ-0.0 2)	mg/L	0.05	No relaxation
12	Magnesium (as Mg),Max	APHA 23rd Edition 2017:, 3500 Mg	37.20	mg/L	30	

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## Test Report

Page No. 2/4

Sample Number : VEL/W/02

Report No. : VEL/W/2403081003

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
12		B,(By Calculation Method)				
13	Total Dissolved Solids at 180°C,Max	IS: 3025:P-16:1984(Gravimetric Method)	816.00	mg/L	500	2000
14	Sulphate (as SO <sub>4</sub> ),Max	IS:3025 (Part 24/Sec-1):2022,Turbidity Method	109.72	mg/L	200	400
15	Fluoride (as F),Max	APHA 23rd Edition 2017: 4500 F, D(SPADNS Method)	0.30	mg/L	1.0	1.5
16	Nitrate (as NO <sub>3</sub> ),Max	APHA 23rd Edition:2017,4500 NO <sub>3</sub> , B (Screening Method)	11.83	mg/L	45	No relaxation
17	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH),Max	Clause-6 of IS 3025 (P-43/Sec-1) :2022 (With Chloroform Extraction Method)	BLQ(LOQ-0.005)	mg/L	0.001	0.002
18	Anionic Detergents (as MBAS),Max	IS:3025 :P-68:: 2019(Methylene Blue Method)	BLQ(LOQ-0.05)	mg/L	0.2	1.0
19	Iron,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
20	Aluminium as Al,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.05)	mg/L	0.03	0.2
21	Boron as B,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
22	Zinc,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
23	Total Chromium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	No relaxation
24	Copper,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	1.5
25	Manganese,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
26	Cadmium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.003	No relaxation
27	Lead,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.01	No relaxation
28	Selenium as Se,Max	VEL/STP/ICP/W-01,Issue	BLQ(LOQ-0.0)	mg/L	0.01	No relaxation

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## Test Report

Page No. 3/4

Sample Number : VEL/W/02

Report No. : VEL/W/2403081003

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
28		No-01,Issue Date-01/11/2021	01)			
29	Arsenic as As,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No relaxation
30	Mercury as Hg,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.005)	mg/L	0.001	No relaxation
31	Mineral Oil,Max	IS 3025 (Part 39): 2021 (Infrared Spectroscopic Method)	BLQ(LOQ-0.1)	mg/L	1.0	No relaxation
32	Total Pesticides	VEL/STP/W-01, Issue No-01, Issue date 01/11/2021	BLQ(LOQ-0.01)	µg/L		

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## Test Report

Page No. 4/4

Sample Number : VEL/W/02

Report No. : VEL/W/2403081003

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
<b>Discipline : Biological</b>						
33	Coliform	APHA, 23rd Edition 2017, 9221B	<1.8	MPN/10 0ml	--	--
34	Escherichia coli	APHA, 23rd Edition 2017, 9221F	<1.8	MPN/10 0ml	--	--

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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



Reviewed By  
 Salva Dev  
 Technical Manager  
 (Micro)  
 Authorized Signatory

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Dated 16/03/2024

Authorized Signatory





## Test Report

Page No. 1/1

Sample Number : VEL/W/02

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water

Sample Group : Water/Residues and contaminants in Water

Location : Devpura Village

Sample Collected by : VEL Representative (Mr. Deepak)

Environmental Condition : 25±2°C

Sampling and Analysis : IS, APHA & STP...

Protocol

Report No. : VEL/W/2403081003/N

Format No : 7.8 F 03

Party Reference No : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 04/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
<b>Discipline : Chemical</b>						
1	Calcium Hardness	IS:3025:P-21:2009(EDTA Titrimetric Method)	239.14	mg/L	--	--
2	Polynuclear Aromatic Hydrocarbin(as PAH)	VEL/STP/W-01, Issue No-01, Issue date 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.0001	No relaxation

BLQ-Below Limit of Quantification,LOQ-Limit of Quantification.

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

Reviewed By

*Deepak*  
16/03/2024  
\* CURECO

Dr. Shiv  
Authorized Signatory  
VARDAN ENVIROLAB  
Reviewed Signature

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## Test Report

Page No. 1/4

Sample Number : VEL/W/03

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water

Sample Group : Water/Residues and contaminants in Water

Location : Kamalpura Village

Sample Collected by : VEL Representative (Mr. Deepak)

Environmental Condition :  $25\pm2^{\circ}\text{C}$

Sampling and Analysis : IS, APHA & STP...

Protocol

Report No. : VEL/W/2403081004

Format No. : 7.8 F 03

Party Reference No. : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 04/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

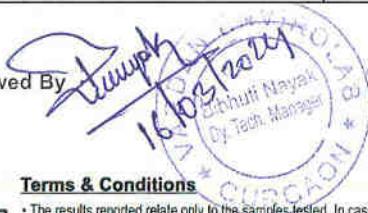
ULR No. : TC629924200001826F

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits

Discipline : Chemical

1	pH (at 25 °C)	IS:3025:Part 11: 2022,(Electrode Method)	7.10	-	6.5-8.5	No relaxation
2	Colour,Max	IS 3025 :Part-14:1983(Visual Comparison Method)	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity,Max	IS: 3025:P-10:1984(Nephelometric Method)	BLQ(LOQ-1.0)	NTU	1	5
4	Odour	IS:3025 Part-5: 2018	Agreeable	-	Agreeable	Agreeable
5	Taste	IS: 3025:P-8:1984	Agreeable	-	Agreeable	Agreeable
6	Total Hardness (as CaCO <sub>3</sub> ),Max	IS:3025:P-21:2009(EDTA Titrimetric Method)	372.98	mg/L	200	600
7	Calcium (as Ca),Max	IS: 3025 :P-40: 1991(EDTA Titrimetric Method)	75.62	mg/L	75	200
8	Total Alkalinity (as CaCO <sub>3</sub> ),Max	IS:3025:Part 23: 1986(Indicator Method)	508.25	mg/L	200	600
9	Chloride (as Cl),Max	IS:3025 :Part 32:1988(Argentometric Method)	91.19	mg/L	250	1000
10	Residual Free Chlorine (RFC),Min	IS:3025:P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.1 5)	mg/L	0.2	1
11	Cyanide (as CN),Max	IS:3025 (P-27/Sec-1):2021(Pyridine Barbituric Acid Method)	BLQ(LOQ-0.0 2)	mg/L	0.05	No relaxation
12	Magnesium (as Mg),Max	APHA 23rd Edition 2017:, 3500 Mg	44.69	mg/L	30	100

Reviewed By



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TC-6299

## Test Report

Page No. 2/4

Sample Number : VEL/W/03

Report No. : VEL/W/2403081004

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
12		B,(By Calculation Method)				
13	Total Dissolved Solids at 180°C,Max	IS: 3025:P-16:1984(Gravimetric Method)	894.00	mg/L	500	2000
14	Sulphate (as SO <sub>4</sub> ),Max	IS:3025 (Part 24/Sec-1):2022,Turbidity Method	48.27	mg/L	200	400
15	Fluoride (as F),Max	APHA 23rd Edition 2017: 4500 F. D(SPADNS Method)	0.36	mg/L	1.0	1.5
16	Nitrate (as NO <sub>3</sub> ),Max	APHA 23rd Edition:2017,4500 NO <sub>3</sub> . B (Screening Method)	13.17	mg/L	45	No relaxation
17	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH),Max	Clause-6 of IS 3025 (P-43/Sec-1) :2022 (With Chloroform Extraction Method)	BLQ(LOQ-0.005)	mg/L	0.001	0.002
18	Anionic Detergents (as MBAS),Max	IS:3025 :P-68:: 2019(Methylene Blue Method)	BLQ(LOQ-0.05)	mg/L	0.2	1.0
19	Iron,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
20	Aluminium as Al,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.05)	mg/L	0.03	0.2
21	Boron as B,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
22	Zinc,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
23	Total Chromium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	No relaxation
24	Copper,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	1.5
25	Manganese,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
26	Cadmium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.003	No relaxation
27	Lead,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.01	No relaxation
28	Selenium as Se,Max	VEL/STP/ICP/W-01,Issue	BLQ(LOQ-0.0)	mg/L	0.01	No relaxation

Reviewed By

*Shivam*  
16/03/2024

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VARDAN ENVIROLAB  
 Authorised Signatory  
 Shivam  
 16/03/2024  
 Authorised Signatory





TC-6299

## Test Report

Page No. 3/4

Sample Number : VEL/W/03

Report No. : VEL/W/2403081004

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
28		No-01,Issue Date-01/11/2021	01)			
29	Arsenic as As,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No relaxation
30	Mercury as Hg,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.005)	mg/L	0.001	No relaxation
31	Mineral Oil,Max	IS 3025 (Part 39): 2021 (Infrared Spectroscopic Method)	BLQ(LOQ-0.1)	mg/L	1.0	No relaxation
32	Total Pesticides	VEL/STP/W-01, Issue No-01,Issue date 01/11/2021	BLQ(LOQ-0.01)	µg/L		

Reviewed By



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## Test Report

Page No. 4/4

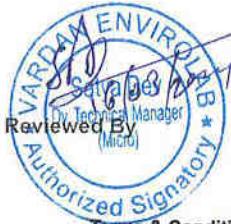
Sample Number : VEL/W/03

Report No. : VEL/W/2403081004

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
<b>Discipline : Biological</b>						
33	Coliform	APHA, 23rd Edition 2017, 9221B	<1.8	MPN/10 0ml	--	--
34	Escherichia coli	APHA, 23rd Edition 2017, 9221F	<1.8	MPN/10 0ml	--	--

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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



Reviewed By  
 Dr. Technical Manager  
 (Micro)

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Dharmendra Singh  
 Date: 16/03/2024

Authorized Signatory





## Test Report

Page No. 1/1

Sample Number : VEL/W/03

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water  
 Sample Group : Water/Residues and contaminants in Water  
 Location : Kamalpura Village  
 Sample Collected by : VEL Representative (Mr. Deepak)  
 Environmental Condition :  $25\pm2^{\circ}\text{C}$   
 Sampling and Analysis : IS, APHA & STP ...  
 Protocol

Report No. : VEL/W/2403081004/N  
 Format No : 7.8 F 03  
 Party Reference No : By Mail  
 Reporting Date : 16/03/2024  
 Period of Analysis : 08/03/2024-14/03/2024  
 Receipt Date : 08/03/2024  
 Sampling Date : 04/03/2024  
 Sampling Quantity : 10 Ltrs+250 ml  
 Sampling Type : Grab

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
Discipline : Chemical						
1	Calcium Hardness	IS:3025:P-21:2009(EDTA Titrimetric Method)	188.68	mg/L	--	--
2	Polynuclear Aromatic Hydrocarbin(as PAH)	VEL/STP/W-01, Issue No-01, Issue date 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.0001	No relaxation

BLQ-Below Limit of Quantification,LOQ-Limit of Quantification.

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

Reviewed By



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TC-6299

## Test Report

Page No. 1/4

Sample Number : VEL/W/04

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water

Sample Group : Water/Residues and contaminants in Water

Location : Lampiya Village

Sample Collected by : VEL Representative (Mr. Deepak)

Environmental Condition :  $25\pm2^{\circ}\text{C}$

Sampling and Analysis : IS, APHA & STP,...

Protocol

Report No. : VEL/W/2403081005

Format No. : 7.8 F 03

Party Reference No. : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 04/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

ULR No. : TC629924200001827F

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits

### Discipline : Chemical

1	pH (at 25 °C)	IS:3025:Part 11: 2022,(Electrode Method)	7.00	-	6.5-8.5	No relaxation
2	Colour,Max	IS 3025 :Part-14:1983(Visual Comparison Method)	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity,Max	IS: 3025:P-10:1984(Nephelometric Method)	BLQ(LOQ-1.0)	NTU	1	5
4	Odour	IS:3025 Part-5: 2018	Agreeable	-	Agreeable	Agreeable
5	Taste	IS: 3025:P-8:1984	Agreeable	-	Agreeable	Agreeable
6	Total Hardness (as CaCO <sub>3</sub> ),Max	IS:3025:P-21:2009(EDTA Titrimetric Method)	293.99	mg/L	200	600
7	Calcium (as Ca),Max	IS: 3025 :P-40: 1991(EDTA Titrimetric Method)	55.39	mg/L	75	200
8	Total Alkalinity (as CaCO <sub>3</sub> ),Max	IS:3025:Part 23: 1986(Indicator Method)	325.28	mg/L	200	600
9	Chloride (as Cl),Max	IS:3025 :Part 32:1988(Argentometric Method)	307.45	mg/L	250	1000
10	Residual Free Chlorine (RFC),Min	IS:3025:P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.1 5)	mg/L	0.2	1
11	Cyanide (as CN),Max	IS:3025 (P-27/Sec-1):2021(Pyridine Barbituric Acid Method)	BLQ(LOQ-0.0 2)	mg/L	0.05	No relaxation
12	Magnesium (as Mg),Max	APHA 23rd Edition 2017:, 3500 Mg	37.79	mg/L	30	100

Reviewed By:

*Prakash Singh*  
 16/03/2024

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Authorized Signatory  
 \* Prakash Singh  
 Authorised Signatory  
*Prakash Singh*





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## Test Report

Page No. 2/4

Sample Number : VEL/W/04

Report No. : VEL/W/2403081005

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
12		B,(By Calculation Method)				
13	Total Dissolved Solids at 180°C,Max	IS: 3025:P-16:1984(Gravimetric Method)	700.00	mg/L	500	2000
14	Sulphate (as SO <sub>4</sub> ),Max	IS:3025 (Part 24/Sec-1):2022,Turbidity Method	54.04	mg/L	200	400
15	Fluoride (as F),Max	APHA 23rd Edition 2017: 4500 F. D(SPADNS Method)	0.30	mg/L	1.0	1.5
16	Nitrate (as NO <sub>3</sub> ),Max	APHA 23rd Edition:2017,4500 NO <sub>3</sub> . B (Screening Method)	13.19	mg/L	45	No relaxation
17	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH),Max	Clause-6 of IS 3025 (P-43/Sec-1) :2022 (With Chloroform Extraction Method)	BLQ(LOQ-0.005)	mg/L	0.001	0.002
18	Anionic Detergents (as MBAS),Max	IS:3025 :P-68:: 2019(Methylene Blue Method)	BLQ(LOQ-0.05)	mg/L	0.2	1.0
19	Iron,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
20	Aluminium as Al,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.05)	mg/L	0.03	0.2
21	Boron as B,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
22	Zinc,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
23	Total Chromium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	No relaxation
24	Copper,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	1.5
25	Manganese,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
26	Cadmium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.003	No relaxation
27	Lead,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.01	No relaxation
28	Selenium as Se,Max	VEL/STP/ICP/W-01,Issue	BLQ(LOQ-0.0)	mg/L	0.01	No relaxation

Reviewed By

*Shayak*  
16/03/2024

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 16/03/2024  
 VEL/W/2403081005  
 Signature





TC-6299

## Test Report

Page No. 3/4

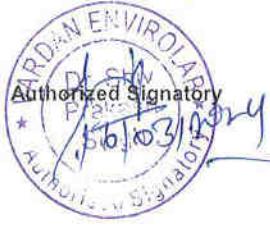
Sample Number : VEL/W/04

Report No.

: VEL/W/2403081005

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
28		No-01,Issue Date-01/11/2021	01)			
29	Arsenic as As,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No relaxation
30	Mercury as Hg,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.005)	mg/L	0.001	No relaxation
31	Mineral Oil,Max	IS 3025 (Part 39): 2021 (Infrared Spectroscopic Method)	BLQ(LOQ-0.1)	mg/L	1.0	No relaxation
32	Total Pesticides	VEL/STP/W-01, Issue No-01, Issue date 01/11/2021	BLQ(LOQ-0.1)	µg/L		

Reviewed By



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## Test Report

Page No. 4/4

Sample Number : VEL/W/04

Report No. : VEL/W/2403081005

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
<b>Discipline : Biological</b>						
33	Coliform	APHA, 23rd Edition 2017, 9221B	<1.8	MPN/10 0ml	--	--
34	Escherichia coli	APHA, 23rd Edition 2017, 9221F	<1.8	MPN/10 0ml	--	--

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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



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## Test Report

Page No. 1/1

Sample Number : VEL/W/04

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water

Sample Group : Water/Residues and contaminants in Water

Location : Lampiya Village

Sample Collected by : VEL Representative (Mr. Deepak)

Environmental Condition : 25±2°C

Sampling and Analysis : IS, APHA & STP,,,

Protocol

Report No. : VEL/W/2403081005/N

Format No : 7.8 F 03

Party Reference No : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 04/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
<b>Discipline : Chemical</b>						
1	Calcium Hardness	IS:3025:P-21:2009(EDTA Titrimetric Method)	138.22	mg/L	--	--
2	Polynuclear Aromatic Hydrocarbin(as PAH)	VEL/STP/W-01, Issue No-01, Issue date 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.0001	No relaxation

BLQ-Below Limit of Quantification,LOQ-Limit of Quantification.

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

Reviewed By

*Deepak*  
 16/03/2024  
 GURKHOA

Dr. Shrivastava  
 \* Pratik  
 \* Authorised Signatory  
 \* Authorised Signatory

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TC-6299

## Test Report

Page No. 1/4

Sample Number : VEL/W/05

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water

Sample Group : Water/Residues and contaminants in Water

Location : Chimanpura Village

Sample Collected by : VEL Representative (Mr. Deepak)

Environmental Condition : 25±2°C

Sampling and Analysis : IS, APHA & STP,,,

Protocol

Report No. : VEL/W/2403081006

Format No. : 7.8 F 03

Party Reference No. : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 05/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

ULR No. : TC629924200001828F

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits

### Discipline : Chemical

1	pH (at 25 °C)	IS:3025:Part 11: 2022,(Electrode Method)	7.89	-	6.5-8.5	No relaxation
2	Colour,Max	IS 3025 :Part-14:1983(Visual Comparison Method)	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity,Max	IS: 3025:P-10:1984(Nephelometric Method)	BLQ(LOQ-1.0)	NTU	1	5
4	Odour	IS:3025 Part-5: 2018	Agreeable	-	Agreeable	Agreeable
5	Taste	IS: 3025:P-8:1984	Agreeable	-	Agreeable	Agreeable
6	Total Hardness (as CaCO <sub>3</sub> ),Max	IS:3025:P-21:2009(EDTA Titrimetric Method)	250.11	mg/L	200	600
7	Calcium (as Ca),Max	IS: 3025 :P-40: 1991(EDTA Titrimetric Method)	61.55	mg/L	75	200
8	Total Alkalinity (as CaCO <sub>3</sub> ),Max	IS:3025:Part 23: 1986(Indicator Method)	269.37	mg/L	200	600
9	Chloride (as Cl),Max	IS:3025 :Part 32:1988(Argentometric Method)	127.15	mg/L	250	1000
10	Residual Free Chlorine (RFC),Min	IS:3025:P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.1 5)	mg/L	0.2	1
11	Cyanide (as CN),Max	IS:3025 (P-27/Sec-1):2021(Pyridine Barbituric Acid Method)	BLQ(LOQ-0.0 2)	mg/L	0.05	No relaxation
12	Magnesium (as Mg),Max	APHA 23rd Edition 2017:, 3500 Mg	23.38	mg/L	30	100

Reviewed By



Authorized Signatory



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TC-6299

## Test Report

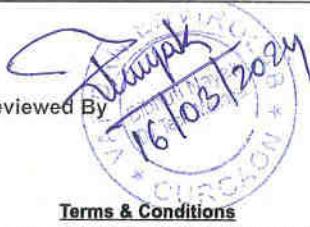
Page No. 2/4

Sample Number : VEL/W/05

Report No. : VEL/W/2403081006

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
12		B,(By Calculation Method)				
13	Total Dissolved Solids at 180°C,Max	IS: 3025:P-16:1984(Gravimetric Method)	436.00	mg/L	500	2000
14	Sulphate (as SO <sub>4</sub> ),Max	IS:3025 (Part 24/Sec-1):2022,Turbidity Method	26.59	mg/L	200	400
15	Fluoride (as F),Max	APHA 23rd Edition 2017: 4500 F. D(SPADNS Method)	0.34	mg/L	1.0	1.5
16	Nitrate (as NO <sub>3</sub> ),Max	APHA 23rd Edition:2017,4500 NO <sub>3</sub> . B (Screening Method)	13.86	mg/L	45	No relaxation
17	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH),Max	Clause-6 of IS 3025 (P-43/Sec-1) :2022 (With Chloroform Extraction Method)	BLQ(LOQ-0.005)	mg/L	0.001	0.002
18	Anionic Detergents (as MBAS),Max	IS:3025 :P-68:: 2019(Methylene Blue Method)	BLQ(LOQ-0.05)	mg/L	0.2	1.0
19	Iron,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
20	Aluminium as Al,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.05)	mg/L	0.03	0.2
21	Boron as B,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
22	Zinc,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
23	Total Chromium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	No relaxation
24	Copper,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	1.5
25	Manganese,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
26	Cadmium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.003	No relaxation
27	Lead,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.01	No relaxation
28	Selenium as Se,Max	VEL/STP/ICP/W-01,Issue	BLQ(LOQ-0.0)	mg/L	0.01	No relaxation

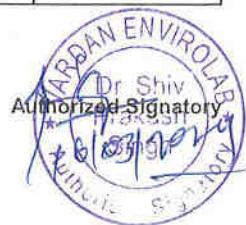
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Dr. Shiv  
Authorized Signatory

VEL/W/2403081006



TC-6299

## Test Report

Page No. 3/4

Sample Number : VEL/W/05

Report No. : VEL/W/2403081006

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
28		No-01,Issue Date-01/11/2021	01)			
29	Arsenic as As,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No relaxation
30	Mercury as Hg,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.005)	mg/L	0.001	No relaxation
31	Mineral Oil,Max	IS 3025 (Part 39): 2021 (Infrared Spectroscopic Method)	BLQ(LOQ-0.1)	mg/L	1.0	No relaxation
32	Total Pesticides	VEL/STP/W-01, Issue No-01,Issue date 01/11/2021	BLQ(LOQ-0.01)	µg/L		

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## Test Report

Page No. 4/4

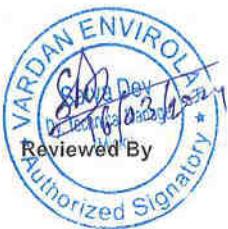
Sample Number : VEL/W/05

Report No. : VEL/W/2403081006

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
<b>Discipline : Biological</b>						
33	Coliform	APHA, 23rd Edition 2017, 9221B	<1.8	MPN/10 0ml	--	--
34	Escherichia coli	APHA, 23rd Edition 2017, 9221F	<1.8	MPN/10 0ml	--	--

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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



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## Test Report

Page No. 1/1

Sample Number : VEL/W/05

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water

Sample Group : Water/Residues and contaminants in Water

Location : Chimanpura Village

Sample Collected by : VEL Representative (Mr. Deepak)

Environmental Condition : 25±2°C

Sampling and Analysis : IS, APHA & STP,,,

Protocol

Report No. : VEL/W/2403081006/N

Format No. : 7.8 F 03

Party Reference No. : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 05/03/2024

Sampling Quantity : 10 Ltrs+250 ml

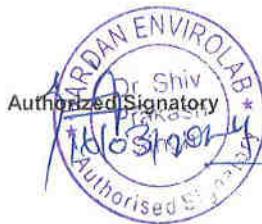
Sampling Type : Grab

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
<b>Discipline : Chemical</b>						
1	Calcium Hardness	IS:3025:P-21:2009(EDTA Titrimetric Method)	153.58	mg/L	--	--
2	Polynuclear Aromatic Hydrocarbin(as PAH)	VEL/STP/W-01, Issue No-01, Issue date 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.0001	No relaxation

BLQ-Below Limit of Quantification,LOQ-Limit of Quantification.

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TC-6299

## Test Report

Page No. 1/4

Sample Number : VEL/W/06

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water

Sample Group : Water/Residues and contaminants in Water

Location : Banera Village

Sample Collected by : VEL Representative (Mr. Deepak)

Environmental Condition :  $25 \pm 2^\circ\text{C}$

Sampling and Analysis : IS, APHA & STP...

Protocol

Report No. : VEL/W/2403081007

Format No : 7.8 F 03

Party Reference No : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 05/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

ULR No. : TC629924200001829F

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits

### Discipline : Chemical

1	pH (at 25 °C)	IS:3025:Part 11: 2022,(Electrode Method)	7.63	-	6.5-8.5	No relaxation
2	Colour,Max	IS 3025 :Part-14:1983(Visual Comparison Method)	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity,Max	IS: 3025:P-10:1984(Nephelometric Method)	BLQ(LOQ-1.0)	NTU	1	5
4	Odour	IS:3025 Part-5: 2018	Agreeable	-	Agreeable	Agreeable
5	Taste	IS: 3025:P-8:1984	Agreeable	-	Agreeable	Agreeable
6	Total Hardness (as CaCO <sub>3</sub> ),Max	IS:3025:P-21:2009(EDTA Titrimetric Method)	566.05	mg/L	200	600
7	Calcium (as Ca),Max	IS: 3025 :P-40: 1991(EDTA Titrimetric Method)	119.59	mg/L	75	200
8	Total Alkalinity (as CaCO <sub>3</sub> ),Max	IS:3025:Part 23: 1986(Indicator Method)	381.18	mg/L	200	600
9	Chloride (as Cl),Max	IS:3025 :Part 32:1988(Argentometric Method)	90.67	mg/L	250	1000
10	Residual Free Chlorine (RFC),Min	IS:3025:P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.1 5)	mg/L	0.2	1
11	Cyanide (as CN),Max	IS:3025 (P-27/Sec-1):2021(Pyridine Barbituric Acid Method)	BLQ(LOQ-0.0 2)	mg/L	0.05	No relaxation
12	Magnesium (as Mg),Max	APHA 23rd Edition 2017:, 3500 Mg	64.89	mg/L	30	

Reviewed By

*Deepak*  
 16/03/2024

VAR DAN ENVIRO  
 Dr. Shiv  
 Prakash  
 \*  
 Authorized Signatory  
 \*  
 Authorised Signatory

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## Test Report

Page No. 2/4

Sample Number : VEL/W/06

Report No. : VEL/W/2403081007

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
12		B,(By Calculation Method)				
13	Total Dissolved Solids at 180°C,Max	IS: 3025:P-16:1984(Gravimetric Method)	838.00	mg/L	500	2000
14	Sulphate (as SO <sub>4</sub> ),Max	IS:3025 (Part 24/Sec-1):2022,Turbidity Method	84.56	mg/L	200	400
15	Fluoride (as F),Max	APHA 23rd Edition 2017: 4500 F. D(SPADNS Method)	0.35	mg/L	1.0	1.5
16	Nitrate (as NO <sub>3</sub> ),Max	APHA 23rd Edition:2017,4500 NO <sub>3</sub> . B (Screening Method)	13.05	mg/L	45	No relaxation
17	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH),Max	Clause-6 of IS 3025 (P-43/Sec-1) :2022 (With Chloroform Extraction Method)	BLQ(LOQ-0.005)	mg/L	0.001	0.002
18	Anionic Detergents (as MBAS),Max	IS:3025 :P-68:: 2019(Methylene Blue Method)	BLQ(LOQ-0.05)	mg/L	0.2	1.0
19	Iron,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
20	Aluminium as Al,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.05)	mg/L	0.03	0.2
21	Boron as B,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
22	Zinc,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
23	Total Chromium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	No relaxation
24	Copper,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	1.5
25	Manganese,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
26	Cadmium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.003	No relaxation
27	Lead,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.01	No relaxation
28	Selenium as Se,Max	VEL/STP/ICP/W-01,Issue	BLQ(LOQ-0.0)	mg/L	0.01	No relaxation

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*Surayak*  
16/03/2024

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*Mr. Singh*  
Authorized Signatory  
16/03/2024  
Authorised Signature





## Test Report

Page No. 3/4

Sample Number : VEL/W/06

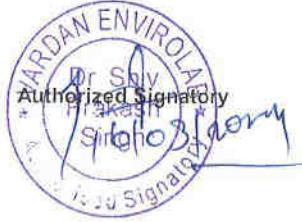
Report No. : VEL/W/2403081007

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
28		No-01,Issue Date-01/11/2021	01)			
29	Arsenic as As,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.0 05)	mg/L	0.01	No relaxation
30	Mercury as Hg,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.0 005)	mg/L	0.001	No relaxation
31	Mineral Oil,Max	IS 3025 (Part 39): 2021(Infrared Spectroscopic Method)	BLQ(LOQ-0.1)	mg/L	1.0	No relaxation
32	Total Pesticides	VEL/STP/W-01, Issue No-01,Issue date 01/11/2021	BLQ(LOQ-0.0 1)	µg/L		

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## Test Report

Page No. 4/4

Sample Number : VEL/W/06

Report No. : VEL/W/2403081007

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
<b>Discipline : Biological</b>						
33	Coliform	APHA, 23rd Edition 2017, 9221B	<1.8	MPN/10 0ml	--	--
34	Escherichia coli	APHA, 23rd Edition 2017, 9221F	<1.8	MPN/10 0ml	--	--

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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



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VEL/W/2403081007



## Test Report

Page No. 1/1

Sample Number : VEL/W/06

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water

Sample Group : Water/Residues and contaminants in Water

Location : Banera Village

Sample Collected by : VEL Representative (Mr. Deepak)

Environmental Condition : 25±2°C

Sampling and Analysis : IS, APHA & STP,,,

Protocol

Report No. : VEL/W/2403081007/N

Format No : 7.8 F 03

Party Reference No : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 05/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
Discipline : Chemical						
1	Calcium Hardness	IS:3025:P-21:2009(EDTA Titrimetric Method)	298.38	mg/L	--	--
2	Polynuclear Aromatic Hydrocarbin(as PAH)	VEL/STP/W-01, Issue No-01, Issue date 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.0001	No relaxation

BLQ-Below Limit of Quantification,LOQ-Limit of Quantification.

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

Reviewed By

Deepak  
 16/03/2024

Authorized Signatory  
 Deepak Singh  
 16/03/2024  
 Signature

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TC-6299

## Test Report

Page No. 1/4

Sample Number : VEL/W/07

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water

Sample Group : Water/Residues and contaminants in Water

Location : Mahua Khurd Village

Sample Collected by : VEL Representative (Mr. Deepak)

Environmental Condition :  $25\pm2^{\circ}\text{C}$

Sampling and Analysis : IS, APHA & STP...

Protocol

Report No. : VEL/W/2403081008

Format No : 7.8 F 03

Party Reference No : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 05/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

ULR No. : TC629924200001830F

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits

### Discipline : Chemical

1	pH (at 25 °C)	IS:3025:Part 11: 2022,(Electrode Method)	7.22	-	6.5-8.5	No relaxation
2	Colour,Max	IS 3025 :Part-14:1983(Visual Comparison Method)	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity,Max	IS: 3025:P-10:1984(Nephelometric Method)	BLQ(LOQ-1.0)	NTU	1	5
4	Odour	IS:3025 Part-5: 2018	Agreeable	-	Agreeable	Agreeable
5	Taste	IS: 3025:P-8:1984	Agreeable	-	Agreeable	Agreeable
6	Total Hardness (as CaCO <sub>3</sub> ),Max	IS:3025:P-21:2009(EDTA Titrimetric Method)	302.77	mg/L	200	600
7	Calcium (as Ca),Max	IS: 3025 :P-40: 1991(EDTA Titrimetric Method)	81.78	mg/L	75	200
8	Total Alkalinity (as CaCO <sub>3</sub> ),Max	IS:3025:Part 23: 1986(Indicator Method)	315.11	mg/L	200	600
9	Chloride (as Cl),Max	IS:3025 :Part 32:1988(Argentometric Method)	82.33	mg/L	250	1000
10	Residual Free Chlorine (RFC),Min	IS:3025:P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.1 5)	mg/L	0.2	1
11	Cyanide (as CN),Max	IS:3025 (P-27/Sec-1):2021(Pyridine Barbituric Acid Method)	BLQ(LOQ-0.0 2)	mg/L	0.05	No relaxation
12	Magnesium (as Mg),Max	APHA 23rd Edition 2017:, 3500 Mg	23.89	mg/L	30	100

Reviewed By

Deepak  
 16/03/2024

Authorized Signatory

VARDAN ENVIROLAB  
 Singh  
 Authorized Signatory

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TC-6299

## Test Report

Page No. 2/4

Sample Number : VEL/W/07

Report No. : VEL/W/2403081008

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
12		B,(By Calculation Method)				
13	Total Dissolved Solids at 180°C,Max	IS: 3025:P-16:1984(Gravimetric Method)	710.00	mg/L	500	2000
14	Sulphate (as SO <sub>4</sub> ),Max	IS:3025 (Part 24/Sec-1):2022,Turbidity Method	70.64	mg/L	200	400
15	Fluoride (as F),Max	APHA 23rd Edition 2017: 4500 F, D(SPADNS Method)	0.32	mg/L	1.0	1.5
16	Nitrate (as NO <sub>3</sub> ),Max	APHA 23rd Edition:2017,4500 NO <sub>3</sub> . B (Screening Method)	12.06	mg/L	45	No relaxation
17	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH),Max	Clause-6 of IS 3025 (P-43/Sec-1) :2022 (With Chloroform Extraction Method)	BLQ(LOQ-0.005)	mg/L	0.001	0.002
18	Anionic Detergents (as MBAS),Max	IS:3025 :P-68:: 2019(Methylene Blue Method)	BLQ(LOQ-0.05)	mg/L	0.2	1.0
19	Iron,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
20	Aluminium as Al,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.05)	mg/L	0.03	0.2
21	Boron as B,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
22	Zinc,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
23	Total Chromium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	No relaxation
24	Copper,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	1.5
25	Manganese,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
26	Cadmium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.003	No relaxation
27	Lead,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.01	No relaxation
28	Selenium as Se,Max	VEL/STP/ICP/W-01,Issue	BLQ(LOQ-0.0)	mg/L	0.01	No relaxation

Reviewed By

16/03/2024

Authorized Signature

Priyashri Singh  
Signature

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## Test Report

Page No. 3/4

Sample Number : VEL/W/07

Report No. : VEL/W/2403081008

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
28		No-01,Issue Date-01/11/2021	01)			
29	Arsenic as As,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No relaxation
30	Mercury as Hg,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.005)	mg/L	0.001	No relaxation
31	Mineral Oil,Max	IS 3025 (Part 39): 2021 (Infrared Spectroscopic Method)	BLQ(LOQ-0.1)	mg/L	1.0	No relaxation
32	Total Pesticides	VEL/STP/W-01, Issue No-01,Issue date 01/11/2021	BLQ(LOQ-0.01)	µg/L		

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VEL/W/2403081008



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## Test Report

Page No. 4/4

Sample Number : VEL/W/07

Report No. : VEL/W/2403081008

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
<b>Discipline : Biological</b>						
33	Coliform	APHA, 23rd Edition 2017, 9221B	<1.8	MPN/10 0ml	--	--
34	Escherichia coli	APHA, 23rd Edition 2017, 9221F	<1.8	MPN/10 0ml	--	--

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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VEL/W/2403081008



## Test Report

Page No. 1/1

Sample Number : VEL/W/07

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water

Sample Group : Water/Residues and contaminants in Water

Location : Mahua Khurd Village

Sample Collected by : VEL Representative (Mr. Deepak)

Environmental Condition : 25±2°C

Sampling and Analysis : IS, APHA & STP...

Protocol

Report No. : VEL/W/2403081008/N

Format No : 7.8 F 03

Party Reference No : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 05/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
<b>Discipline : Chemical</b>						
1	Calcium Hardness	IS:3025:P-21:2009(EDTA Titrimetric Method)	204.04	mg/L	--	--
2	Polynuclear Aromatic Hydrocarbin(as PAH)	VEL/STP/W-01, Issue No-01, Issue date 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.0001	No relaxation

BLQ-Below Limit of Quantification,LOQ-Limit of Quantification.

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



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TC-6299

## Test Report

Page No. 1/4

Sample Number : VEL/W/08

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water

Sample Group : Water/Residues and contaminants in Water

Location : Mandal Village

Sample Collected by : VEL Representative (Mr. Deepak)

Environmental Condition :  $25\pm2^{\circ}\text{C}$

Sampling and Analysis : IS, APHA & STP...

Protocol

Report No. : VEL/W/2403081009

Format No. : 7.8 F 03

Party Reference No. : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 05/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

ULR No. : TC629924200001831F

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits

### Discipline : Chemical

1	pH (at 25 °C)	IS:3025:Part 11: 2022,(Electrode Method)	7.30	-	6.5-8.5	No relaxation
2	Colour,Max	IS 3025 :Part-14:1983(Visual Comparison Method)	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity,Max	IS: 3025:P-10:1984(Nephelometric Method)	BLQ(LOQ-1.0)	NTU	1	5
4	Odour	IS:3025 Part-5: 2018	Agreeable	-	Agreeable	Agreeable
5	Taste	IS: 3025:P-8:1984	Agreeable	-	Agreeable	Agreeable
6	Total Hardness (as CaCO <sub>3</sub> ),Max	IS:3025:P-21:2009(EDTA Titrimetric Method)	351.04	mg/L	200	600
7	Calcium (as Ca),Max	IS: 3025 :P-40: 1991(EDTA Titrimetric Method)	96.72	mg/L	75	200
8	Total Alkalinity (as CaCO <sub>3</sub> ),Max	IS:3025:Part 23: 1986(Indicator Method)	254.12	mg/L	200	600
9	Chloride (as Cl),Max	IS:3025 :Part 32:1988(Argentometric Method)	45.85	mg/L	250	1000
10	Residual Free Chlorine (RFC),Min	IS:3025:P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.1 5)	mg/L	0.2	1
11	Cyanide (as CN),Max	IS:3025 (P-27/Sec-1):2021(Pyridine Barbituric Acid Method)	BLQ(LOQ-0.0 2)	mg/L	0.05	No relaxation
12	Magnesium (as Mg),Max	APHA 23rd Edition 2017:, 3500 Mg	26.54	mg/L	30	

Reviewed By

*Shivam*  
 16/03/2024

Dr. Shivam  
 Prakash  
 Singh  
 Authorized Signatory  
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 VARDAN ENVIROLAB

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## Test Report

Page No. 2/4

Sample Number : VEL/W/08

Report No. : VEL/W/2403081009

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
12		B,(By Calculation Method)				
13	Total Dissolved Solids at 180°C,Max	IS: 3025:P-16:1984(Gravimetric Method)	656.00	mg/L	500	2000
14	Sulphate (as SO <sub>4</sub> ),Max	IS:3025 (Part 24/Sec-1):2022,Turbidity Method	75.74	mg/L	200	400
15	Fluoride (as F),Max	APHA 23rd Edition 2017: 4500 F, D(SPADNS Method)	0.30	mg/L	1.0	1.5
16	Nitrate (as NO <sub>3</sub> ),Max	APHA 23rd Edition:2017,4500 NO <sub>3</sub> . B (Screening Method)	8.30	mg/L	45	No relaxation
17	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH),Max	Clause-6 of IS 3025 (P-43/Sec-1) :2022 (With Chloroform Extraction Method)	BLQ(LOQ-0.005)	mg/L	0.001	0.002
18	Anionic Detergents (as MBAS),Max	IS:3025 :P-68:: 2019(Methylene Blue Method)	BLQ(LOQ-0.05)	mg/L	0.2	1.0
19	Iron,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No relaxation
20	Aluminium as Al,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.05)	mg/L	0.03	0.2
21	Boron as B,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
22	Zinc,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	5	15
23	Total Chromium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	No relaxation
24	Copper,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	1.5
25	Manganese,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
26	Cadmium,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.003	No relaxation
27	Lead,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.02)	mg/L	0.01	No relaxation
28	Selenium as Se,Max	VEL/STP/ICP/W-01,Issue	BLQ(LOQ-0.0)	mg/L	0.01	No relaxation

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## Test Report

Page No. 3/4

Sample Number : VEL/W/08

Report No. : VEL/W/2403081009

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
28		No-01,Issue Date-01/11/2021	01)			
29	Arsenic as As,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.005)	mg/L	0.01	No relaxation
30	Mercury as Hg,Max	VEL/STP/ICP/W-01,Issue No-01,Issue Date-01/11/2021	BLQ(LOQ-0.005)	mg/L	0.001	No relaxation
31	Mineral Oil,Max	IS 3025 (Part 39): 2021 (Infrared Spectroscopic Method)	BLQ(LOQ-0.1)	mg/L	1.0	No relaxation
32	Total Pesticides	VEL/STP/W-01, Issue No-01,Issue date 01/11/2021	BLQ(LOQ-0.01)	µg/L		

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## Test Report

Page No. 4/4

Sample Number : VEL/W/08

Report No. : VEL/W/2403081009

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits

Discipline : Biological

33	Coliform	APHA, 23rd Edition 2017, 9221B	<1.8	MPN/10 0ml	--	--
34	Escherichia coli	APHA, 23rd Edition 2017, 9221F	<1.8	MPN/10 0ml	--	--

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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VEL/W/2403081009



## Test Report

Page No. 1/1

Sample Number : VEL/W/08

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Ground Water

Sample Group : Water/Residues and contaminants in Water

Location : Mandal Village

Sample Collected by : VEL Representative (Mr. Deepak)

Environmental Condition : 25±2°C

Sampling and Analysis : IS, APHA & STP,,,

Protocol

Report No. : VEL/W/2403081009/N

Format No : 7.8 F 03

Party Reference No : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 05/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

S.No.	Parameter	Test Method	Result	Unit	Specification as per IS:10500:2012	
					Acceptable Limit	Permissible Limits
Discipline : Chemical						
1	Calcium Hardness	IS:3025:P-21:2009(EDTA Titrimetric Method)	241.34	mg/L	--	--
2	Polynuclear Aromatic Hydrocarbin(as PAH)	VEL/STP/W-01, Issue No-01, Issue date 01/11/2021	BLQ(LOQ-0.0005)	mg/L	0.0001	No relaxation

BLQ-Below Limit of Quantification,LOQ-Limit of Quantification.

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

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## Test Report

Sample Number:	VEL/WL/01	Report No.:	VEL/WL/2403080001
Name & Address of the Party:	M/s Jindal Saw Limited (Lampiya Mine) Araji No.9697/6711, Near Tiranga Hills, Dist. Bhilwara-311802 (Rajasthan)	Format No.:	7.8 F-01
		Party Reference No.:	By Mail
		Reporting Date:	15/03/2024
Sample Description:	Ground Water Level Monitoring	Receipt Date:	08/03/2024
Sample Collected by:	Vardan EnviroLab Representative	Sampling Date:	06/03/2024

## RESULTS

S. No.	Location	Latitude & Longitude	Depth (In meter)
1.	Lampiya Village	--	15.00
2.	Devpura Village	--	10.20
3.	Jaliya Village	--	12.50
4.	Kamalpura Village	--	8.20
5.	Mahua Khurd Village	--	11.20
6.	Baneda Village	--	16.30
7.	Chimanpura Village	--	9.10
8.	Mandal Village	--	10.90

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

Page 1 of 1



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TC-6299

## Test Report

Page No. 1/3

Sample Number : VEL/W/09

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Surface Water

Sample Group : Water/Residues and contaminants in Water

Location : Mandal Pond

Sample Collected By : VEL Representative (Mr. Deepak)

Environmental Condition : 25±2°C

Sampling and Analysis : IS : 3025 & APHA

Protocol

Report No. : VEL/W/2403081010

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 06/03/2024

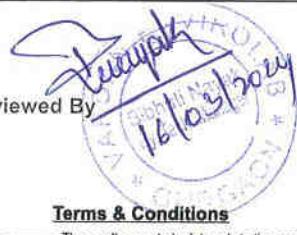
Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

ULR No. : TC629924200001832F

S.No.	Test Parameters	Test Method	Results	Units
<b>Discipline : Chemical</b>				
1	pH (at 25°C)	IS:3025 :P-11:983(Electrode Method)	7.74	--
2	Turbidity	IS:3025:P-10:1984(Nephelometric Method)	BLQ(LOQ-1.0)	NTU
3	Colour	IS: 3025 :P-4:1983(Visual Comparision Method)	BLQ(LOQ-1.0)	Hazen
4	Odour	IS:3025:P-5:1983	Agreeable	--
5	Total Hardness as CaCO3	IS:3025:P-21:2009(EDTA Titrimetric Method)	136.02	mg/L
6	Chloride as Cl	IS:3025 :P-32:1988(Argentometric Method)	29.18	mg/L
7	Residual Free Chlorine	IS:3025;P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.15)	mg/L
8	Cyanide as CN	IS 3025 (P-27/Sec1) : 2021 (Pyridine Barbituric Acid Method)	BLQ(LOQ-0.02)	mg/L
9	Total Dissolved Solids at 180° C	IS:3025 :P-16:1984(Gravimetric Method)	256.00	mg/L
10	Sulphate (as SO4)	IS 3025 (Part 24/Sec-1): 2022(Turbidity method)	29.01	mg/L
11	Fluoride (as F)	APHA 23rd Edition 2017, 4500 F B & D	0.30	mg/L
12	Nitrate as N	IS: 3025 :P - 34:1988 (Chromotropic Method)	8.51	mg/L
13	Lead	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L
14	Selenium	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.001)	mg/L

Reviewed By



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VEL/14/178/PN30870



TC-6299

## Test Report

Page No. 2/3

Sample Number : VEL/W/09

Report No.

: VEL/W/2403081010

S.No.	Test Parameters	Test Method	Results	Units
15	Iron	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L
16	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.005)	mg/L
17	Total Chromium	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.002)	mg/L
18	Phenolic Compounds	Clause-6 of IS 3025 (P-43/Sec-1) :2022(With Chloroform Extraction Method)	BLQ(LOQ-0.0005)	mg/L
19	Anionic Detergent as MBAS	IS:3025:Part- 68:2019(Methylene Blue Method)	BLQ(LOQ-0.05)	mg/L
20	Zinc	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L
21	Copper	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.002)	mg/L
22	Cadmium	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.002)	mg/L
23	Calcium as Ca	IS: 3025:P-40:(EDTA Titrimetric Method)	31.65	mg/L
24	Total Alkalinity as CaCO3	IS:3025:P-23:1986(Indicator Method)	116.89	mg/L
25	Magnesium as Mg	APHA23rd Edition 2017, 3500 Mg B(ByCalculation Method)	13.82	mg/L
26	Aluminium	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.005)	mg/L
27	Boron	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L
28	Total Suspended Solids	IS: 3025 :P-17:1984(Gravimetric Method)	BLQ(LOQ-1.0)	mg/L
29	Mineral Oil	IS:3025 :Part 39:: 2021(Infrared Spectroscopic Method)	BLQ(LOQ-0.1)	mg/L
30	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L
31	Total Pesticides residues	VEL/STP/W-01, Issue No-01,Issue date 01/11/2021	BLQ(LOQ-0.01)	µg/L
32	Mercury (as Hg)	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.0005)	mg/L

Reviewed By

*Suraj Singh*  
 Date: 16/03/2024

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Authorized Signatory

*Suraj Singh*  
 Date: 16/03/2024  
 i. J. Signatory





TC-6299

## Test Report

Page No. 3/3

Sample Number : VEL/W/09

Report No.

; VEL/W/2403081010

S.No.	Test Parameters	Test Method	Results	Units
<b>Discipline : Biological</b>				
33	Total Coliform	APHA, 23rd Edition, 9221B	<1.8	MPN/100ml
34	Escherichia coli	APHA, 23rd Edition, 9221F	<1.8	MPN/100ml

BLQ-Below Limit of Quantification,LOQ-Limit of Quantification.

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

Reviewed By  
 Satya Dev  
 Dr. Technical Manager  
 (M/s)  
 \* 16/03/2024  
 Authorized Signatory

16/03/2024  
 Dr. Satya Dev  
 Authorized Signatory  
 VARDAN ENVIROLAB  
 Laboratory for Environmental Monitoring & Microbiology

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## Test Report

Page No. 1/1

Sample Number : VEL/W/09

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-  
 Bhilwara-311802 (Raj)

Name of Sample : Surface Water

Sample Group : Water/Residues and contaminants in Water

Location : Mandal Pond

Sample Collected By : VEL Representative (Mr. Deepak)

Environmental Condition : 25±2°C

Sampling and Analysis Protocol : IS : 3025 & APHA

Report No. : VEL/W/2403081010/N

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 06/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

S.No.	Test Parameters	Test Method	Results	Units
Discipline : Chemical				
1	Taste	IS:3025 (P-8)2023	Not Perform	
2	Calcium Hardness	By Calculation	78.98	mg/L
3	Polynuclear Aromatic Hydrocarbon(as PAH)	VEL/STP/W-01, Issue No-01, Issue date 01/11/2021	BLQ(LOQ-0.00005)	mg/L

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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

Reviewed By

*Deepak*  
 16/03/2024  
 Deepak  
 16/03/2024

Authorised Signatory  
 Deepak Singh  
 Authorised Signatory

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TC-6299

## Test Report

Page No. 1/3

Sample Number : VEL/W/10

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-  
 Bhilwara-311802 (Raj)

Name of Sample : Surface Water

Sample Group : Water/Residues and contaminants in Water

Location : Lampiya Pit

Sample Collected By : VEL Representative (Mr. Deepak)

Environmental Condition :  $25\pm2^{\circ}\text{C}$

Sampling and Analysis Protocol : IS : 3025 & APHA

Report No. : VEL/W/2403081011

Format No. : 7.8 F-03

Party Reference No. : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 06/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

ULR No. : TC629924200001833F

S.No.	Test Parameters	Test Method	Results	Units
Discipline : Chemical				
1	pH (at 25°C)	IS:3025 :P-11:983(Electrode Method)	7.40	--
2	Turbidity	IS:3025:P-10:1984(Nephelometric Method)	BLQ(LOQ-1.0)	NTU
3	Colour	IS: 3025 :P-4:1983(Visual Comparision Method)	BLQ(LOQ-1.0)	Hazen
4	Odour	IS:3025:P-5:1983	Agreeable	--
5	Total Hardness as CaCO <sub>3</sub>	IS:3025:P-21:2009(EDTA Titrimetric Method)	548.50	mg/L
6	Chloride as Cl	IS:3025 :P-32:1988(Argentometric Method)	66.18	mg/L
7	Residual Free Chlorine	IS:3025;P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.15)	mg/L
8	Cyanide as CN	IS 3025 (P-27/Sec1) : 2021 (Pyridine Barbituric Acid Method)	BLQ(LOQ-0.02)	mg/L
9	Total Dissolved Solids at 180° C	IS:3025 :P-16:1984(Gravimetric Method)	814.00	mg/L
10	Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24/Sec-1): 2022(Turbidity method)	341.80	mg/L
11	Fluoride (as F)	APHA 23rd Edition 2017, 4500 F B & D	0.46	mg/L
12	Nitrate as N	IS: 3025 :P - 34:1988 (Chromotropic Method)	7.77	mg/L
13	Lead	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.002)	mg/L
14	Selenium	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.001)	mg/L

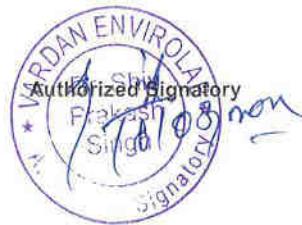
Reviewed By



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## Test Report

Page No. 2/3

Sample Number : VEL/W/10

Report No.

: VEL/W/2403081011

S.No.	Test Parameters	Test Method	Results	Units
15	Iron	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L
16	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.005)	mg/L
17	Total Chromium	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.002)	mg/L
18	Phenolic Compounds	Clause-6 of IS 3025 (P-43/Sec-1) :2022(With Chloroform Extraction Method)	BLQ(LOQ-0.0005)	mg/L
19	Anionic Detergent as MBAS	IS:3025:Part- 68:2019(Methylene Blue Method)	BLQ(LOQ-0.05)	mg/L
20	Zinc	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L
21	Copper	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.002)	mg/L
22	Cadmium	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.002)	mg/L
23	Calcium as Ca	IS: 3025:P-40:(EDTA Titrimetric Method)	130.14	mg/L
24	Total Alkalinity as CaCO3	IS:3025:P-23:1986(Indicator Method)	111.81	mg/L
25	Magnesium as Mg	APHA23rd Edition 2017, 3500 Mg B(ByCalculation Method)	54.22	mg/L
26	Aluminium	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.005)	mg/L
27	Boron	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L
28	Total Suspended Solids	IS: 3025 :P-17:1984(Gravimetric Method)	BLQ(LOQ-1.0)	mg/L
29	Mineral Oil	IS:3025 :Part 39:: 2021(Infrared Spectroscopic Method)	BLQ(LOQ-0.1)	mg/L
30	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L
31	Total Pesticides residues	VEL/STP/W-01, Issue No-01,Issue date 01/11/2021	BLQ(LOQ-0.01)	µg/L
32	Mercury (as Hg)	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.0005)	mg/L

Reviewed By



Authorized Signatory



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TC-6299

## Test Report

Page No. 3/3

Sample Number : VEL/W/10

Report No.

: VEL/W/2403081011

S.No.	Test Parameters	Test Method	Results	Units
<b>Discipline : Biological</b>				
33	Total Coliform	APHA, 23rd Edition, 9221B	<1.8	MPN/100ml
34	Escherichia coli	APHA, 23rd Edition, 9221F	<1.8	MPN/100ml

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

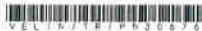
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## Test Report

Page No. 1/1

Sample Number : VEL/W/10

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-  
 Bhilwara-311802 (Raj)

Name of Sample : Surface Water

Sample Group : Water/Residues and contaminants in Water

Location : Lampiya Pit

Sample Collected By : VEL Representative (Mr. Deepak)

Environmental Condition :  $25\pm2^{\circ}\text{C}$

Sampling and Analysis : IS : 3025 & APHA

Protocol

Report No. : VEL/W/2403081011/N

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 06/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

S.No.	Test Parameters	Test Method	Results	Units
<b>Discipline : Chemical</b>				
1	Taste	IS:3025 (P-8)2023	Not Perform	
2	Calcium Hardness	By Calculation	324.71	mg/L
3	Polynuclear Aromatic Hydrocarbon(as PAH)	VEL/STP/W-01, Issue No-01, Issue date 01/11/2021	BLQ(LOQ-0.00005)	mg/L

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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

Reviewed By

*Deepak*  
16/03/2024

Authorized Signatory

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*Deepak*  
16/03/2024



TC-6299

## Test Report

Page No. 1/3

Sample Number : VEL/W/11

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : Surface Water  
 Sample Group : Water/Residues and contaminants in Water  
 Location : Chimanpura Pond  
 Sample Collected By : VEL Representative (Mr. Deepak)  
 Environmental Condition :  $25 \pm 2^\circ\text{C}$   
 Sampling and Analysis Protocol : IS : 3025 & APHA

Report No. : VEL/W/2403081012  
 Format No : 7.8 F-03  
 Party Reference No : By Mail  
 Reporting Date : 16/03/2024  
 Period of Analysis : 08/03/2024-14/03/2024  
 Receipt Date : 08/03/2024  
 Sampling Date : 06/03/2024  
 Sampling Quantity : 10 Ltrs+250 ml  
 Sampling Type : Grab  
 ULR No. : TC629924200001834F

S.No.	Test Parameters	Test Method	Results	Units
Discipline : Chemical				
1	pH (at 25°C)	IS:3025 :P-11:983(Electrode Method)	7.42	--
2	Turbidity	IS:3025:P-10:1984(Nephelometric Method)	BLQ(LOQ-1.0)	NTU
3	Colour	IS: 3025 :P-4:1983(Visual Comparision Method)	BLQ(LOQ-1.0)	Hazen
4	Odour	IS:3025:P-5:1983	Agreeable	--
5	Total Hardness as CaCO <sub>3</sub>	IS:3025:P-21:2009(EDTA Titrimetric Method)	120.67	mg/L
6	Chloride as Cl	IS:3025 :P-32:1988(Argentometric Method)	113.60	mg/L
7	Residual Free Chlorine	IS:3025;P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.15)	mg/L
8	Cyanide as CN	IS 3025 (P-27/Sec1) : 2021 (Pyridine Barbituric Acid Method)	BLQ(LOQ-0.02)	mg/L
9	Total Dissolved Solids at 180° C	IS:3025 :P-16:1984(Gravimetric Method)	314.00	mg/L
10	Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24/Sec-1): 2022(Turbidity method)	24.32	mg/L
11	Fluoride (as F)	APHA 23rd Edition 2017, 4500 F B & D	0.20	mg/L
12	Nitrate as N	IS: 3025 :P - 34:1988 (Chromotropic Method)	1.85	mg/L
13	Lead	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.002)	mg/L
14	Selenium	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.001)	mg/L

Reviewed By

16/03/2024

Authorized Signatory

16/03/2024

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## Test Report

Page No. 2/3

Sample Number : VEL/W/11

Report No.

: VEL/W/2403081012

S.No.	Test Parameters	Test Method	Results	Units
15	Iron	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L
16	Arsenic as As	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.005)	mg/L
17	Total Chromium	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.002)	mg/L
18	Phenolic Compounds	Clause-6 of IS 3025 (P-43/Sec-1) :2022(With Chloroform Extraction Method)	BLQ(LOQ-0.0005)	mg/L
19	Anionic Detergent as MBAS	IS:3025:Part- 68:2019(Methylene Blue Method)	BLQ(LOQ-0.05)	mg/L
20	Zinc	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L
21	Copper	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.002)	mg/L
22	Cadmium	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.002)	mg/L
23	Calcium as Ca	IS: 3025:P-40:(EDTA Titrimetric Method)	22.86	mg/L
24	Total Alkalinity as CaCO3	IS:3025:P-23:1986(Indicator Method)	111.81	mg/L
25	Magnesium as Mg	APHA23rd Edition 2017, 3500 Mg B(ByCalculation Method)	15.43	mg/L
26	Aluminium	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.005)	mg/L
27	Boron	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L
28	Total Suspended Solids	IS: 3025 :P-17:1984(Gravimetric Method)	BLQ(LOQ-1.0)	mg/L
29	Mineral Oil	IS:3025 :Part 39:: 2021(Infrared Spectroscopic Method)	BLQ(LOQ-0.1)	mg/L
30	Manganese as Mn	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L
31	Total Pesticides residues	VEL/STP/W-01, Issue No-01,Issue date 01/11/2021	BLQ(LOQ-0.01)	µg/L
32	Mercury (as Hg)	VEL/STP/ICP/W-01, Issue No. 01, Issue date 01/11/2021	BLQ(LOQ-0.0005)	mg/L

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*[Signature]*  
16/03/2024



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## Test Report

Page No. 3/3

Sample Number : VEL/W/11

Report No.

: VEL/W/2403081012

S.No.	Test Parameters	Test Method	Results	Units
<b>Discipline : Biological</b>				
33	Total Coliform	APHA, 23rd Edition, 9221B	<1.8	MPN/100ml
34	Escherichia coli	APHA, 23rd Edition, 9221F	<1.8	MPN/100ml

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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## Test Report

Page No. 1/1

Sample Number : VEL/W/11

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-  
 Bhilwara-311802 (Raj)

Name of Sample : Surface Water

Sample Group : Water/Residues and contaminants in Water

Location : Chimanpura Pond

Sample Collected By : VEL Representative (Mr. Deepak)

Environmental Condition : 25±2°C

Sampling and Analysis : IS : 3025 & APHA

Protocol

Report No. : VEL/W/2403081012/N

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 16/03/2024

Period of Analysis : 08/03/2024-14/03/2024

Receipt Date : 08/03/2024

Sampling Date : 06/03/2024

Sampling Quantity : 10 Ltrs+250 ml

Sampling Type : Grab

S.No.	Test Parameters	Test Method	Results	Units
<b>Discipline : Chemical</b>				
1	Taste	IS:3025 (P-8)2023	Not Perform	
2	Calcium Hardness	By Calculation	57.04	mg/L
3	Polynuclear Aromatic Hydrocarbon(as PAH)	VEL/STP/W-01, Issue No-01, Issue date 01/11/2021	BLQ(LOQ-0.00005)	mg/L

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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

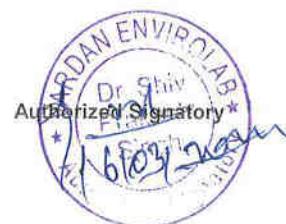
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## Test Report

Page No. 1/1

Sample Number : VEL/AP/09

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
Araji No-9697/6711, Near Tiranga Hills, District-  
Bhilwara-311802 (Raj)

Name of Sample : AMBIENT NOISE

Sample Group : Atmospheric Pollution

### General Information

Sampling Location : Jaliya Village  
Sample Collected By : VEL Representative (Mr. Deepak)  
Sampling Equipment used : Sound Level Meter  
Instrument Code : VEL/SLM/08  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 04/03/2024 To 05/03/2024  
Time of Monitoring : 06:00 AM to 06:00 AM  
Ambient Temperature (°C) : Min.25°C, Max.31°C  
Surrounding Activity : Human, Vehicular & Others Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : CPCB Guidelines & IS:9989  
Sampling Duration : 24.0 Hours  
Parameter Required : As per work order

Report No. : VEL/AP/2403081015  
Format No : 7.8 F-03  
Party Reference No : By Mail  
Reporting Date : 15/03/2024  
Period of Analysis : 14/03/2024-14/03/2024  
Receipt Date : 08/03/2024  
ULR No. : TC629924200001799F

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
1	Leq	IS-9989	53.70	43.09	dB (A)

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

Area Code	Category of Area/Zone	Limits in dB(A) Leg*	
		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 shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leg denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing.

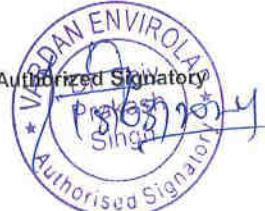
Note- A "decibel" is a unit in which noise is measured.

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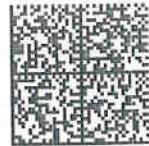
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VEL/NJTR/PN30604



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## Test Report

Page No. 1/1

Sample Number : VEL/AP/11

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
Araji No-9697/6711, Near Tiranga Hills, District-  
Bhilwara-311802 (Raj)

Name of Sample : AMBIENT NOISE

Sample Group : Atmospheric Pollution

### General Information

Sampling Location : Kamal Pura Village  
Sample Collected By : VEL Representative (Mr. Deepak)  
Sampling Equipment used : Sound Level Meter  
Instrument Code : VEL/SLM/06  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 04/03/2024 To 05/03/2024  
Time of Monitoring : 06:00 AM to 06:00 AM  
Ambient Temperature (°C) : Min.25°C, Max.31°C  
Surrounding Activity : Human, Vehicular & Others Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : CPCB Guidelines & IS:9989  
Sampling Duration : 24.0 Hours  
Parameter Required : As per work order

Report No. : VEL/AP/2403081017  
Format No : 7.8 F-03  
Party Reference No : By Mail  
Reporting Date : 15/03/2024  
Period of Analysis : 14/03/2024-14/03/2024  
Receipt Date : 08/03/2024  
ULR No. : TC629924200001801F

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
1	Leq	IS-9989	52.91	41.90	dB (A)

### Discipline : Chemical

1	Leq	IS-9989	52.91	41.90	dB (A)
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### 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 shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority, Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing.

Note-\*A "decibel" is a unit in which noise is measured.

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## Test Report

Page No. 1/1

Sample Number : VEL/AP/10

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : AMBIENT NOISE  
 Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403081016  
 Format No. : 7.8 F-03  
 Party Reference No. : By Mail  
 Reporting Date : 15/03/2024  
 Period of Analysis : 14/03/2024-14/03/2024  
 Receipt Date : 08/03/2024  
 ULR No. : TC629924200001800F

### General Information

Sampling Location : Devpura Village  
 Sample Collected By : VEL Representative (Mr. Deepak)  
 Sampling Equipment used : Sound Level Meter  
 Instrument Code : VEL/SLM/09  
 Instrument Calibration Status : Calibrated  
 Meteorological condition during monitoring : Clear Sky  
 Date of Monitoring : 04/03/2024 To 05/03/2024  
 Time of Monitoring : 06:00 AM to 06:00 AM  
 Ambient Temperature (°C) : Min.25°C, Max.31°C  
 Surrounding Activity : Human, Vehicular & Others Activities  
 Scope of Monitoring : Regulatory Requirement  
 Sampling & Analysis Protocol : CPCB Guidelines & IS:9989  
 Sampling Duration : 24.0 Hours  
 Parameter Required : As per work order

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
Discipline : Chemical					
1	Leq	IS-9989	53.38	43.29	dB (A)

### 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 shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing.

Note-\*A "decibel" is a unit in which noise is measured.

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## Test Report

Page No. 1/1

Sample Number : VEL/AP/12

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : AMBIENT NOISE  
Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403081018

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2024

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

Receipt Date : 08/03/2024

ULR No. : TC629924200001802F

### General Information

Sampling Location : Lampiya Village  
Sample Collected By : VEL Representative (Mr. Deepak)  
Sampling Equipment used : Sound Level Meter  
Instrument Code : VEL/SLM/07  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 04/03/2024 To 05/03/2024  
Time of Monitoring : 06:00 AM to 06:00 AM  
Ambient Temperature (°C) : Min.25°C, Max.31°C  
Surrounding Activity : Human, Vehicular & Others Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : CPCB Guidelines & IS:9989  
Sampling Duration : 24.0 Hours  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
Discipline : Chemical					
1	Leq	IS-9989	53.88	40.80	dB (A)

### 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 shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority, Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing.

Note-\*A "decibel" is a unit in which noise is measured.

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Shiv Patel  
Authorised Signatory

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## Test Report

Page No. 1/1

Sample Number : VEL/AP/13

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : AMBIENT NOISE  
Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403081019

Format No. : 7.8 F-03

Party Reference No. : By Mail

Reporting Date : 15/03/2024

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

Receipt Date : 08/03/2024

ULR No. : TC629924200001803F

### General Information

Sampling Location : Chimanpura Village  
Sample Collected By : VEL Representative (Mr. Deepak)  
Sampling Equipment used : Sound Level Meter  
Instrument Code : VEL/SLM/09  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 05/03/2024 To 06/03/2024  
Time of Monitoring : 06:00 AM to 06:00 AM  
Ambient Temperature (°C) : Min.25°C, Max.31°C  
Surrounding Activity : Human, Vehicular & Others Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : CPCB Guidelines & IS:9989  
Sampling Duration : 24.0 Hours  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
Discipline : Chemical					
1	Leq	IS-9989	52.59	43.43	dB (A)

### 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 shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority, Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing

Note-\*A "decibel" is a unit in which noise is measured.

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## Test Report

Page No. 1/1

Sample Number : VEL/AP/14

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-  
 Bhilwara-311802 (Raj)

Name of Sample : AMBIENT NOISE  
 Sample Group : Atmospheric Pollution

### General Information

Sampling Location : Banera Village  
 Sample Collected By : VEL Representative (Mr. Deepak)  
 Sampling Equipment used : Sound Level Meter  
 Instrument Code : VEL/SLM/07  
 Instrument Calibration Status : Calibrated  
 Meteorological condition during monitoring : Clear Sky  
 Date of Monitoring : 05/03/2024 To 06/03/2024  
 Time of Monitoring : 06:00 AM to 06:00 AM  
 Ambient Temperature (°C) : Min.25°C, Max.31°C  
 Surrounding Activity : Human, Vehicular & Others Activities  
 Scope of Monitoring : Regulatory Requirement  
 Sampling & Analysis Protocol : CPCB Guidelines & IS:9989  
 Sampling Duration : 24.0 Hours  
 Parameter Required : As per work order

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
Discipline : Chemical					
1	Leq	IS-9989	52.80	41.66	dB (A)

### 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 shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority, Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing

Note-\*A "decibel" is a unit in which noise is measured.

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

Reviewed By

  
 15/3/2024

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VEL/NIT/24/1803616



TC-6299

## Test Report

Page No. 1/1

Sample Number : VEL/AP/15

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : AMBIENT NOISE  
 Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403081021

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2024

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

Receipt Date : 08/03/2024

ULR No. : TC629924200001805F

### General Information

Sampling Location : Mahua Khurd Village  
 Sample Collected By : VEL Representative (Mr. Deepak)  
 Sampling Equipment used : Sound Level Meter  
 Instrument Code : VEL/SLM/08  
 Instrument Calibration Status : Calibrated  
 Meteorological condition during monitoring : Clear Sky  
 Date of Monitoring : 05/03/2024 To 06/03/2024  
 Time of Monitoring : 06:00 AM to 06:00 AM  
 Ambient Temperature (°C) : Min.25°C, Max.31°C  
 Surrounding Activity : Human, Vehicular & Others Activities  
 Scope of Monitoring : Regulatory Requirement  
 Sampling & Analysis Protocol : CPCB Guidelines & IS:9989  
 Sampling Duration : 24.0 Hours  
 Parameter Required : As per work order

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
Discipline : Chemical					
1	Leq	IS-9989	54.26	44.64	dB (A)

### 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 shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority, Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing.

Note-\*A "decibel" is a unit in which noise is measured.

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

Reviewed By

15/3/2024

Dr. Shiv Prakash Singh  
 Authorized Signatory  
 VEL/AP/2403081021

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TC-6299

## Test Report

Page No. 1/1

Sample Number : VEL/AP/16

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : AMBIENT NOISE  
Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2403081022

Format No : 7.8 F-03

Party Reference No : By Mail

Reporting Date : 15/03/2024

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

Receipt Date : 08/03/2024

ULR No. : TC629924200001806F

### General Information

Sampling Location : Mandal Village  
Sample Collected By : VEL Representative (Mr. Deepak)  
Sampling Equipment used : Sound Level Meter  
Instrument Code : VEL/SLM/06  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 05/03/2024 To 06/03/2024  
Time of Monitoring : 06:00 AM to 06:00 AM  
Ambient Temperature (°C) : Min.25°C, Max.31°C  
Surrounding Activity : Human, Vehicular & Others Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : CPCB Guidelines & IS:9989  
Sampling Duration : 24.0 Hours  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
Discipline : Chemical					
1	Leq	IS-9989	52.87	42.98	dB (A)

### 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 shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority, Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing

Note-\*A "decibel" is a unit in which noise is measured.

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

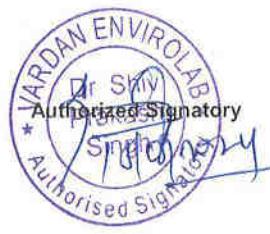
Reviewed By

15/3/2024

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TC-6299

## Test Report

Page No. 1/1

Sample Number : VEL/AP/17

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
Araji No-9697/6711, Near Tiranga Hills, District-  
Bhilwara-311802 (Raj)

Name of Sample : AMBIENT NOISE  
Sample Group : Atmospheric Pollution

### General Information

Sampling Location : Lapiya Mines Loading Point Village  
Sample Collected By : VEL Representative (Mr. Deepak)  
Sampling Equipment used : Sound Level Meter  
Instrument Code : VEL/SLM/07  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 06/03/2024 To 07/03/2024  
Time of Monitoring : 06:00 AM to 06:00 AM  
Ambient Temperature (°C) : Min.25°C, Max.31°C  
Surrounding Activity : Human, Vehicular & Others Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : CPCB Guidelines & IS:9989  
Sampling Duration : 24.0 Hours  
Parameter Required : As per work order

Report No. : VEL/AP/2403081023  
Format No : 7.8 F-03  
Party Reference No : By Mail  
Reporting Date : 15/03/2024  
Period of Analysis : 14/03/2024-14/03/2024  
Receipt Date : 08/03/2024  
ULR No. : TC629924200001807F

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
Discipline : Chemical					
1	Leq	IS-9989	50.55	41.52	dB (A)

### 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 shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority, Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing

Note-\*A "decibel" is a unit in which noise is measured.

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

Reviewed By

15/3/2024

Authorized Signatory

Brijesh Singh  
Authorized Signatory

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VEL/N/1/TPN/30613



TC-6299

## Test Report

Page No. 1/1

Sample Number : VEL/AP/18

Name & Address of the Party : M/s Jindal Saw Limited (Lampiya Mine)  
 Araji No-9697/6711, Near Tiranga Hills, District-Bhilwara-311802 (Raj)

Name of Sample : AMBIENT NOISE  
 Sample Group : Atmospheric Pollution

### General Information

Sampling Location : Haul Road Lampiya Mines  
 Sample Collected By : VEL Representative (Mr. Deepak)  
 Sampling Equipment used : Sound Level Meter  
 Instrument Code : VEL/SLM/08  
 Instrument Calibration Status : Calibrated  
 Meteorological condition during monitoring : Clear Sky  
 Date of Monitoring : 06/03/2024 To 07/03/2024  
 Time of Monitoring : 02:30 PM to 02:30 PM  
 Ambient Temperature (°C) : Min.25°C, Max.31°C  
 Surrounding Activity : Human, Vehicular & Others Activities  
 Scope of Monitoring : Regulatory Requirement  
 Sampling & Analysis Protocol : CPCB Guidelines & IS:9989  
 Sampling Duration : 24.0 Hours  
 Parameter Required : As per work order

Report No. : VEL/AP/2403081024  
 Format No : 7.8 F-03  
 Party Reference No : By Mail  
 Reporting Date : 15/03/2024  
 Period of Analysis : 14/03/2024-14/03/2024  
 Receipt Date : 08/03/2024  
 ULR No. : TC62992420001808F

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
<b>Discipline : Chemical</b>					
1	Leq	IS-9989	51.77	40.21	dB (A)

### 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 shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority, Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing

Note-\*A "decibel" is a unit in which noise is measured.

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

Reviewed By

Dr. Shiv Bhatia  
 15/3/2024

VARDAN ENVIROLAB  
 Dr. Shiv Bhatia  
 Authorized Signatory  
 15/3/2024  
 Authorized Signatory

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