

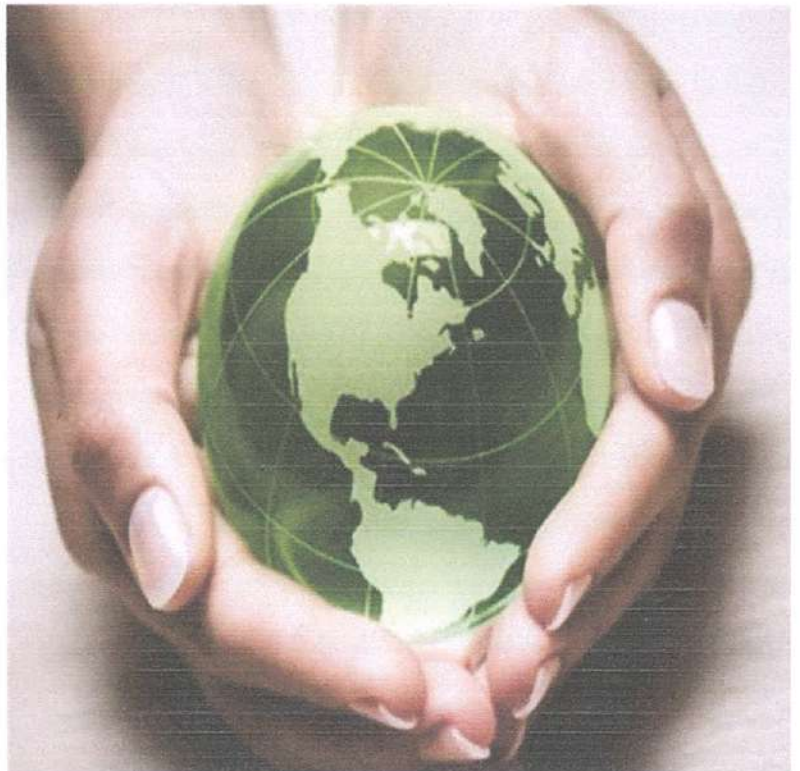
Report Issued to:

JINDAL SAW LIMITED

**Village-Samaghogha, Taluka-Mundra,
Dist-Kutch-370415**

ENVIRONMENTAL MONTHLY MONITORING REPORT

MONTH OF MARCH'23



Go Green Mechanisms Pvt. Ltd.

Head Office & Lab: Dayal Estate, National Highway
No. 8, Opp. APMC Market Gate – 1, Jetalpur,
Ahmedabad – 382426

Contact: 7069072008/10

Email: lab@gogreenmechanisms.com



Ambient Air Report

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2091B/51/V46/01

Reporting Date: 10/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN2091B/51/V46/01	Sampling Start Date:	03/03/2023 (10:03 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/03/2023 (10:03 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	06/03/2023
Sample Description:	Old Colony	Analysis start- End Date:	06/03/2023-09/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.25	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.25	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.94	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.6	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2091B/51/V46/02

Reporting Date: 10/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2091B/51/V46/02	Sampling Start Date:	03/03/2023 (10:32 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/03/2023 (10:32 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	06/03/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	06/03/2023-09/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.83	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.54	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.22	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.6	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2091B/51/V46/03

Reporting Date: 10/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN2091B/51/V46/03	Sampling Start Date:	03/03/2023 (10:58 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/03/2023 (10:58 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	06/03/2023
Sample Description:	STP	Analysis start- End Date:	06/03/2023-09/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.28	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.77	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.81	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.6	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2091B/51/V46/04

Reporting Date: 10/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2091B/51/V46/04	Sampling Start Date:	03/03/2023 (11:26 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/03/2023 (11:26 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	06/03/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	06/03/2023-09/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.38	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.17	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.54	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.6	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2113B/51/V47/01

Reporting Date: 13/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2113B/51/V47/01	Sampling Start Date:	06/03/2023 (09:42 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	07/03/2023 (09:42 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	08/03/2023
Sample Description:	Old Colony	Analysis start- End Date:	09/03/2023-13/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.73	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.86	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.64	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	N	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	5.2	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

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Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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Reporting Date: 13/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2113B/51/V47/02	Sampling Start Date:	06/03/2023 (10:06 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	07/03/2023 (10:06 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	08/03/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	09/03/2023-13/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.21	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.93	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.93	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	N	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	5.2	Km/Hrs	GGMP/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

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Analyzed By
Ritu Shah




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Payal Patel

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Reporting Date: 13/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN2113B/51/V47/03	Sampling Start Date:	06/03/2023 (10:35 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	07/03/2023 (10:35 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	08/03/2023
Sample Description:	STP	Analysis start- End Date:	09/03/2023-13/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.50	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.21	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.46	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	N	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	5.2	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

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Ritu Shah




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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2113B/51/V47/04

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415

Reporting Date: 13/03/2023




SAMPLE DETAILS

Lab ID:	Lab/PN2113B/51/V47/04	Sampling Start Date:	06/03/2023 (11:02 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	07/03/2023 (11:02 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	08/03/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	09/03/2023-13/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.58	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.66	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.68	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	N	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	5.2	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

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Ritu Shah




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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2136B/51/V50/01

Reporting Date: 17/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2136B/51/V50/01	Sampling Start Date:	10/03/2023 (09:40 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	11/03/2023 (09:40 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	13/03/2023
Sample Description:	Old Colony	Analysis start- End Date:	13/03/2023-16/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.90	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.98	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.88	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.5	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Analyzed By
Ritu Shah



Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN2136B/51/V50/02

Reporting Date: 17/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN2136B/51/V50/02	Sampling Start Date:	10/03/2023 (10:09 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	11/03/2023 (10:09 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	13/03/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	13/03/2023-16/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.26	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.15	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.69	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NE	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	4.5	Km/Hrs	GGMP/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2136B/51/V50/03

Reporting Date: 17/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN2136B/51/V50/03	Sampling Start Date:	10/03/2023 (10:35 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	11/03/2023 (10:35 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	13/03/2023
Sample Description:	STP	Analysis start- End Date:	13/03/2023-16/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.35	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.25	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.28	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.5	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN2136B/51/V50/04

Reporting Date: 17/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN2136B/51/V50/04	Sampling Start Date:	10/03/2023 (10:57 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	11/03/2023 (10:57 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	13/03/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	13/03/2023-16/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.51	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.32	µg/m3	GGMP/ SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.10	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.41	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NE	Direction	GGMP/ SOP/MP/01	NS
7	Average Wind Speed	4.5	Km/Hrs	GGMP/ SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2152B/51/V52/01

Reporting Date: 21/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2152B/51/V52/01	Sampling Start Date:	13/03/2023 (09:40 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2023 (09:40 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2023
Sample Description:	Old Colony	Analysis start- End Date:	16/03/2023-20/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.20	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.66	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.18	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2152B/51/V52/02

Reporting Date: 21/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN2152B/51/V52/02	Sampling Start Date:	13/03/2023 (10:17 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2023 (10:17 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	16/03/2023-20/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.44	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.96	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.10	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2152B/51/V52/03

Reporting Date: 21/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN2152B/51/V52/03	Sampling Start Date:	13/03/2023 (10:43 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2023 (10:43 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2023
Sample Description:	STP	Analysis start- End Date:	16/03/2023-20/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.35	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.58	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.20	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

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Analyzed By
Ritu Shah




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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2152B/51/V52/04

Reporting Date: 21/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2152B/51/V52/04	Sampling Start Date:	13/03/2023 (11:16 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2023 (11:16 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	16/03/2023-20/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.86	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.38	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.48	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

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Analyzed By
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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2192B/51/V55/01

Reporting Date: 24/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN2192B/51/V55/01	Sampling Start Date:	17/03/2023 (10:10 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/03/2023 (10:10 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	20/03/2023
Sample Description:	Old Colony	Analysis start- End Date:	20/03/2023-23/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.20	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.48	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.39	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	1.9	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Ritu Shah
Analyzed By
Ritu Shah



P. B. Patel
Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2192B/51/V55/02

Reporting Date: 24/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN2192B/51/V55/02	Sampling Start Date:	17/03/2023 (10:27 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/03/2023 (10:27 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	20/03/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	20/03/2023-23/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.41	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	18.45	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.50	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	1.9	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2192B/51/V55/03

Reporting Date: 24/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN2192B/51/V55/03	Sampling Start Date:	17/03/2023 (10:53 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/03/2023 (10:53 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	20/03/2023
Sample Description:	STP	Analysis start- End Date:	20/03/2023-23/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C


Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.21	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	19.96	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.14	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	1.9	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2192B/51/V55/04

Reporting Date: 24/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN2192B/51/V55/04	Sampling Start Date:	17/03/2023 (11:17 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/03/2023 (11:17 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	20/03/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	20/03/2023-23/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C


Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.86	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.76	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.69	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	1.9	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2212B/51/V57/01

Reporting Date: 25/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2212B/51/V57/01	Sampling Start Date:	20/03/2023 (09:50 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/03/2023 (09:50 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/03/2023
Sample Description:	Old Colony	Analysis start- End Date:	23/03/2023-25/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.71	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	14.18	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	19.92	µg/m ³	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m ³	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2212B/51/V57/02

Reporting Date: 25/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2212B/51/V57/02	Sampling Start Date:	20/03/2023 (10:26 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/03/2023 (10:26 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/03/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	23/03/2023-25/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C


Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.40	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.47	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.71	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2212B/51/V57/03

Reporting Date: 25/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN2212B/51/V57/03	Sampling Start Date:	20/03/2023 (10:10 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/03/2023 (10:10 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/03/2023
Sample Description:	STP	Analysis start- End Date:	23/03/2023-25/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.14	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.41	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2212B/51/V57/04

Reporting Date: 25/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN2212B/51/V57/04	Sampling Start Date:	20/03/2023 (10:53 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/03/2023 (10:53 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/03/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	23/03/2023-25/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C


Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.92	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.55	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.40	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2262B/51/V59/01

Reporting Date: 31/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN2262B/51/V59/01	Sampling Start Date:	24/03/2023 (10:10 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/03/2023 (10:10 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	27/03/2023
Sample Description:	Old Colony	Analysis start- End Date:	27/03/2023-30/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.27	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.90	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.67	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.0	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah


Authorized Signatory
Payal Patel



Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN2262B/51/V59/02

Reporting Date: 31/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS


Lab ID:	Lab/PN2262B/51/V59/02	Sampling Start Date:	24/03/2023 (10:35 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/03/2023 (10:35 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	27/03/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	27/03/2023-30/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.64	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.37	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.24	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	2.0	Km/Hrs	GGMP/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah


Authorized Signatory
Payal Patel



Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2262B/51/V59/03

Reporting Date: 31/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS


Lab ID:	Lab/PN2262B/51/V59/03	Sampling Start Date:	24/03/2023 (10:56 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/03/2023 (10:56 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	27/03/2023
Sample Description:	STP	Analysis start- End Date:	27/03/2023-30/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.24	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.17	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.54	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.0	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah


Authorized Signatory
Payal Patel



Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2262B/51/V59/04

Reporting Date: 31/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN2262B/51/V59/04	Sampling Start Date:	24/03/2023 (11:31 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/03/2023 (11:31 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	27/03/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	27/03/2023-30/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.44	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.19	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.39	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.0	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN2295B/51/V61/03

Reporting Date: 04/04/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN2295B/51/V61/03	Sampling Start Date:	27/03/2023 (10:41 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/03/2023 (10:41 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	30/03/2023
Sample Description:	STP	Analysis start- End Date:	30/03/2023-03/04/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.45	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.20	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.43	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	2.8	Km/Hrs	GGMP/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2295B/51/V61/04

Reporting Date: 04/04/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN2295B/51/V61/04	Sampling Start Date:	27/03/2023 (11:16 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/03/2023 (11:16 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	30/03/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	30/03/2023-03/04/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.29	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.56	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.41	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN2295B/51/V61/01

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415

Reporting Date: 04/04/2023



SAMPLE DETAILS

Lab ID:	Lab/PN2295B/51/V61/01	Sampling Start Date:	27/03/2023 (09:37 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/03/2023 (09:37 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	30/03/2023
Sample Description:	Old Colony	Analysis start- End Date:	30/03/2023-03/04/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.96	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.92	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.25	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	2.8	Km/Hrs	GGMP/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

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Analyzed By
Ritu Shah




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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2295B/51/V61/02

Reporting Date: 04/04/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN2295B/51/V61/02	Sampling Start Date:	27/03/2023 (10:10 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/03/2023 (10:10 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	30/03/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	30/03/2023-03/04/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	59.34	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.85	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.37	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

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Analyzed By
Ritu Shah




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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2349B/51/V64/01

Reporting Date: 05/04/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN2349B/51/V64/01	Sampling Start Date:	31/03/2023 (09:38 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/04/2023 (09:38 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	02/04/2023
Sample Description:	Old Colony	Analysis start- End Date:	03/04/2023-05/04/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.16	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.77	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.39	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2349B/51/V64/02

Reporting Date: 05/04/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

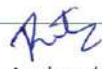
SAMPLE DETAILS

Lab ID:	Lab/PN2349B/51/V64/02	Sampling Start Date:	31/03/2023 (10:03 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/04/2023 (10:03 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	02/04/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	03/04/2022-05/04/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	59.42	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.90	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.92	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah


Authorized Signatory
Payal Patel



Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN2349B/51/V64/03

Reporting Date: 05/04/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN2349B/51/V64/03	Sampling Start Date:	31/03/2023 (10:30 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/04/2023 (10:30 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	02/04/2023
Sample Description:	STP	Analysis start- End Date:	03/04/2023-05/04/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.90	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.57	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.40	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	2.8	Km/Hrs	GGMP/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/2349B/51/V64/04

Reporting Date: 05/04/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN2349B/51/V64/04	Sampling Start Date:	31/03/2023 (10:56 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/04/2023 (10:56 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	02/04/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	03/04/2023-05/04/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C


Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.56	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.15	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.77	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.54	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	2.8	Km/Hrs	GGMP/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-MARCH.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




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Payal Patel

Page No : 1/1

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**Fugitive
Monitoring
Report**

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2201B/51/V56/03

Reporting Date: 23/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN2201B/51/V56/03	Sampling Start Date:	18/03/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/03/2023
Sample Type:	Fugitive	Sample Receipt Date:	20/03/2023
Sample Description:	BF-1 Dedusting	Analysis start- End Date:	20/03/2023-22/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	08
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

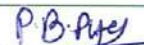
Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	23.75	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	14.94	µg/m ³	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m ³	IS 5182 (part 10)	10 For 1 hr
4	Suspended Particulate Matter (SPM)	2433.38	µg/m ³	IS 5182 (part 4)	3000

FUGITIVE MONITORING MEASUREMENT Plant Name: Blast Furnace-1 GPCB ID : 18037.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2310B/51/V61/01

Reporting Date: 04/04/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN2310B/51/V61/01	Sampling Start Date:	30/03/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/03/2023
Sample Type:	Fugitive	Sample Receipt Date:	31/03/2023
Sample Description:	BF-1 Ground Hopper	Analysis start- End Date:	30/03/2023-03/04/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	8
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

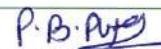
Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	21.46	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	12.73	µg/m ³	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m ³	IS 5182 (part 10)	10 For 1 hr
4	Suspended Particulate Matter (SPM)	1717.68	µg/m ³	IS 5182 (part 4)	3000

FUGITIVE MONITORING MEASUREMENT Plant Name: Blast Furnace-1 GPCB ID : 18037.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2144B/51/V51/01

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415

Reporting Date: 16/03/2023



SAMPLE DETAILS

Lab ID:	Lab/PN2144B/51/V51/01	Sampling Start Date:	11/03/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	11/03/2023
Sample Type:	Fugitive	Sample Receipt Date:	13/03/2023
Sample Description:	BF 2 De dusting	Analysis start- End Date:	13/03/2023-15/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	8
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	25.00	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	13.16	µg/m ³	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m ³	IS 5182 (part 10)	10 For 1 hr
4	Suspended Particulate Matter (SPM)	2011.44	µg/m ³	IS 5182 (part 4)	3000

FUGITIVE MONITORING MEASUREMENT Plant Name: Blast Furnace 2; GPCB ID: 29026.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN2144B/51/V51/02

Reporting Date: 16/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN2144B/51/V51/02	Sampling Start Date:	11/03/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	11/03/2023
Sample Type:	Fugitive	Sample Receipt Date:	13/03/2023
Sample Description:	BF-2 Cast House	Analysis start- End Date:	13/03/2023-15/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	8
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	23.75	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	12.76	µg/m ³	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m ³	IS 5182 (part 10)	10 For 1 hr
4	Suspended Particulate Matter (SPM)	2155.34	µg/m ³	IS 5182 (part 4)	3000

FUGITIVE MONITORING MEASUREMENT Plant Name: Blast Furnace 2; GPCB ID: 29026.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah


Authorized Signatory
Payal Patel



Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN2337B/51/V63/02

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date: 05/04/2023



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN2337B/51/V63/02	Sampling Start Date:	30/03/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/03/2023
Sample Type:	Fugitive	Sample Receipt Date:	01/04/2023
Sample Description:	In front Of Control Room	Analysis start- End Date:	01/04/2023-04/04/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	08
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	27.59	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	16.02	µg/m ³	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m ³	IS 5182 (part 10)	10 For 1 hr
4	Suspended Particulate Matter (SPM)	2726.54	µg/m ³	IS 5182 (part 4)	3000

FUGITIVE MONITORING MEASUREMENT Plant Name: Sinter Plant 1 GPCB ID : 35456.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN2337B/51/V63/03

Reporting Date: 05/04/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



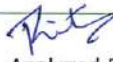
SAMPLE DETAILS

Lab ID:	Lab/PN2337B/51/V63/03	Sampling Start Date:	30/03/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/03/2023
Sample Type:	Fugitive	Sample Receipt Date:	01/04/2023
Sample Description:	In front Of Control Room	Analysis start- End Date:	01/04/2023-04/04/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	08
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	23.00	µg/m3	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	16.02	µg/m ³	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m3	IS 5182 (part 10)	10 For 1 hr
4	Suspended Particulate Matter (SPM)	2137.30	µg/m3	IS 5182 (part 4)	3000

FUGITIVE MONITORING MEASUREMENT Plant Name: Sinter Plant 2 GPCB ID : 29017.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN2175B/51/V53/01

Reporting Date: 21/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN2175B/51/V53/01	Sampling Start Date:	15/03/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2023
Sample Type:	Fugitive	Sample Receipt Date:	17/03/2023
Sample Description:	DISP CCM Area	Analysis start- End Date:	17/03/2023-20/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	8
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

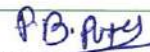
Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	22.22	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	13.79	µg/m ³	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m ³	IS 5182 (part 10)	10 For 1 hr
4	Suspended Particulate Matter (SPM)	1471.36	µg/m ³	IS 5182 (part 4)	3000

FUGITIVE MONITORING MEASUREMENT Plant Name: Pipe Plant; GPCB ID : 18036.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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Report Number : GGMPL/PN2175B/51/V53/02

Reporting Date: 21/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN2175B/51/V53/02	Sampling Start Date:	15/03/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2023
Sample Type:	Fugitive	Sample Receipt Date:	17/03/2023
Sample Description:	SDP-2 Induction	Analysis start- End Date:	17/03/2023-20/03/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	08
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	24.52	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	15.91	µg/m ³	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m ³	IS 5182 (part 10)	10 For 1 hr
4	Suspended Particulate Matter (SPM)	1372.65	µg/m ³	IS 5182 (part 4)	3000

FUGITIVE MONITORING MEASUREMENT Plant Name: Pipe Plant; GPCB ID : 18036.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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Payal Patel

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Stack Monitoring Report

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2113B/51/V47/05

Reporting Date: 13/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2113B/51/V47/05	Sampling Date:	06/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/03/2023
Sample Type:	Stack	Analysis start- End Date:	09/03/2023-13/03/2023
Stack Height & Dia (m):	35 & 1.5	Stack Temperature (°C):	37
Stack Attached To:	De-Dusting Stack-1	Stack gas velocity (m/sec):	8.51
Fuel Used:	-	Volume of Air Sampled in NM3:	0.7951

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	3.14	mg/Nm ³	IS 11255- Part 1	100

STACK MONITORING: Plant Name: Blast Furnace-1; GPCB ID: 18037 / APCM-Bag Filter.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2119B/51/V48/01

Reporting Date: 11/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2119B/51/V48/01	Sampling Date:	07/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	09/03/2023
Sample Type:	Stack	Analysis start- End Date:	09/03/2023-11/03/2023
Stack Height & Dia (m):	45 & 1.4	Stack Temperature (°C):	156
Stack Attached To:	Boiler-1	Stack gas velocity (m/sec):	6.20
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.8915

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	3.81	mg/Nm ³	IS 11255- Part 1	150
2	Oxides of Nitrogen	7.33	mg/Nm ³	GGMPL/SOP/SEA/68	25
3	Sulphur Dioxide	15.44	mg/Nm ³	GGMPL/SOP/SEA/68	40

STACK MONITORING: Plant Name: Blast Furnace-1; GPCB ID: 18037

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2119B/51/V48/02

Reporting Date: 11/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2119B/51/V48/02	Sampling Date:	07/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	09/03/2023
Sample Type:	Stack	Analysis start- End Date:	09/03/2023-11/03/2023
Stack Height & Dia (m):	45 & 1.4	Stack Temperature (°C):	152
Stack Attached To:	Boiler-II	Stack gas velocity (m/sec):	6.75
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.9564

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	2.25	mg/Nm ³	IS 11255- Part 1	150
2	Oxides of Nitrogen	16.91	mg/Nm ³	GGMPL/SOP/SEA/68	25
3	Sulphur Dioxide	12.04	mg/Nm ³	GGMPL/SOP/SEA/68	40

STACK MONITORING: Plant Name: Blast Furnace-1; GPCB ID: 18037

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2349B/51/V64/06

Reporting Date: 05/04/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2349B/51/V64/06	Sampling Date:	31/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/04/2023
Sample Type:	Stack	Analysis start- End Date:	03/04/2023-05/04/2023
Stack Height & Dia (m):	65 & 1.4	Stack Temperature (°C):	153
Stack Attached To:	Stove Stack	Stack gas velocity (m/sec):	10.05
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.6520

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	1.84	mg/Nm ³	IS 11255- Part 1	150
2	Oxides of Nitrogen	11.46	mg/Nm ³	GGMPL/SOP/SEA/68	25
3	Sulphur Dioxide	14.25	mg/Nm ³	GGMPL/SOP/SEA/68	40

STACK MONITORING Plant Name: Blast Furnace 1; GPCB ID: 18037

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Ritu Shah

Analyzed By
Ritu Shah



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2082B/51/V44/01

Reporting Date: 07/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2082B/51/V44/01	Sampling Date:	01/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/03/2023
Sample Type:	Stack	Analysis start- End Date:	03/03/2023-06/03/2023
Stack Height & Dia (m):	40 & 1.5	Stack Temperature (°C):	36
Stack Attached To:	De-Dusting Stack-2	Stack gas velocity (m/sec):	8.68
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8076

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	20.55	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Blast Furnace 2; GPCB ID: 29026 / APCM-Bag Filter

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2082B/51/V44/03

Reporting Date: 07/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN2082B/51/V44/03	Sampling Date:	01/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/03/2023
Sample Type:	Stack	Analysis start- End Date:	03/03/2023-06/03/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	35
Stack Attached To:	Coke fine Building DCS	Stack gas velocity (m/sec):	4.91
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0030

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	34.29	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Blast Furnace 2; GPCB ID: 29026 / APCM-Bag Filter

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2082B/51/V44/04

Reporting Date: 07/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN2082B/51/V44/04	Sampling Date:	01/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/03/2023
Sample Type:	Stack	Analysis start- End Date:	03/03/2023-06/03/2023
Stack Height & Dia (m):	30 & 0.3	Stack Temperature (°C):	36
Stack Attached To:	Iron Ore Fine & Dust Collecting System	Stack gas velocity (m/sec):	4.13
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8800

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	23.06	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Blast Furnace 2; GPCB ID: 29026 / APCM-Bag Filter

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN2310B/51/V61/02

Reporting Date: 04/04/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2310B/51/V61/02	Sampling Date:	28/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/03/2023
Sample Type:	Stack	Analysis start- End Date:	31/03/2023-03/04/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	125
Stack Attached To:	Sinter Furnace 1	Stack gas velocity (m/sec):	10.96
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.8037

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	46.78	mg/Nm ³	IS 11255- Part 1	150
2	Sulphur Dioxides	5.0	ppm	GGMP/SOP/SEA/68	100
3	Oxides of Nitrogen	14.0	ppm	GGMP/SOP/SEA/68	50

STACK MONITORING Plant Name: Sinter Plant 1 GPCB ID : 35456 / APCM-ESP/Bag Filter.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2310B/51/V61/04

Reporting Date: 04/04/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2310B/51/V61/04	Sampling Date:	28/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/03/2023
Sample Type:	Stack	Analysis start- End Date:	31/03/2023-03/04/2023
Stack Height & Dia (m):	36.08 & 0.8	Stack Temperature (°C):	39
Stack Attached To:	Secondary Mixture Drum	Stack gas velocity (m/sec):	3.35
Fuel Used:	-	Volume of Air Sampled in NM3:	0.7223

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	41.67	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Sinter Plant 1; GPCB ID : 35456.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN2310B/51/V61/05

Reporting Date: 04/04/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN2310B/51/V61/05	Sampling Date:	28/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/03/2023
Sample Type:	Stack	Analysis start- End Date:	31/03/2023-03/04/2023
Stack Height & Dia (m):	32 & 0.8	Stack Temperature (°C):	138
Stack Attached To:	Discharge End	Stack gas velocity (m/sec):	9.95
Fuel Used:	-	Volume of Air Sampled in NM3:	0.6033

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	37.29	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Sinter Plant 1; GPCB ID : 35456 / APCM-ESP

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


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Ritu Shah




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2325B/51/V62/01

Reporting Date: 03/04/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2325B/51/V62/01	Sampling Date:	29/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/03/2023
Sample Type:	Stack	Analysis start- End Date:	30/03/2022-01/04/2023
Stack Height & Dia (m):	10.75	Stack Temperature (°C):	45
Stack Attached To:	Primary Mixture Drum	Stack gas velocity (m/sec):	4.22
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8233

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	31.58	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Sinter Plant 1 GPCB ID : 35456.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2325B/51/V62/02

Reporting Date: 03/04/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2325B/51/V62/02	Sampling Date:	29/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/03/2023
Sample Type:	Stack	Analysis start- End Date:	30/03/2022-01/04/2023
Stack Height & Dia (m):	32.8 & 1.40	Stack Temperature (°C):	36
Stack Attached To:	Fuel & Flux crusher and screening building	Stack gas velocity (m/sec):	5.04
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0510

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	17.34	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Sinter Plant 1 GPCB ID : 35456.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2125B/51/V49/02

Reporting Date: 13/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2125B/51/V49/02	Sampling Date:	09/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	11/03/2023
Sample Type:	Stack	Analysis start- End Date:	11/03/2023-13/03/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	134
Stack Attached To:	Sinter Furnace 2	Stack gas velocity (m/sec):	10.25
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.7295

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	34.54	mg/Nm ³	IS 11255- Part 1	150
2	Sulphur Dioxides	4.0	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	15.0	ppm	GGMPL/SOP/SEA/68	50

STACK MONITORING Plant Name: Sinter Plant 2; GPCB ID: 29017 / APCM-ESP/Bag Filter.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By
Ritu Shah




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Report Number: GGMPL/PN2125B/51/V49/05

Reporting Date: 13/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2125B/51/V49/05	Sampling Date:	09/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	11/03/2023
Sample Type:	Stack	Analysis start- End Date:	11/03/2023-13/03/2023
Stack Height & Dia (m):	40 & 1.5	Stack Temperature (°C):	137
Stack Attached To:	Discharge End	Stack gas velocity (m/sec):	15.59
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0674

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	41.59	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Sinter Plant 2; GPCB ID: 29017 / APCM-ESP.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2325B/51/V62/04

Reporting Date: 03/04/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2325B/51/V62/04	Sampling Date:	29/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/03/2023
Sample Type:	Stack	Analysis start- End Date:	30/03/2022-01/04/2023
Stack Height & Dia (m):	30 & 1.4	Stack Temperature (°C):	37
Stack Attached To:	Flux Screening Dedusting System	Stack gas velocity (m/sec):	5.25
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0609

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	22.71	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Sinter Plant 2; GPCB ID: 29017.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By
Ritu Shah




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2087B/51/V45/01

Reporting Date: 07/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN2087B/51/V45/01	Sampling Date:	02/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/03/2023
Sample Type:	Stack	Analysis start- End Date:	04/03/2023-06/03/2023
Stack Height & Dia (m):	30 & 1.0	Stack Temperature (°C):	36
Stack Attached To:	Core Shop 2	Stack gas velocity (m/sec):	4.29
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9046

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	21.00	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036 / APCM-Bag Filter

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2175B/51/V53/05

Reporting Date: 21/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2175B/51/V53/05	Sampling Date:	15/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2023
Sample Type:	Stack	Analysis start- End Date:	17/03/2023-20/03/2023
Stack Height & Dia (m):	45 & 1.5	Stack Temperature (°C):	77
Stack Attached To:	Anneling Furnace-III	Stack gas velocity (m/sec):	6.19
Fuel Used:	BFG/LPG	Volume of Air Sampled in NM3:	1.1579

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	13.29	mg/Nm ³	IS 11255- Part 1	150
2	Sulphur Dioxides	15.0	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	26.0	ppm	GGMPL/SOP/SEA/68	50

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2181B/51/V54/04

Reporting Date: 22/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2181B/51/V54/04	Sampling Date:	16/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2023
Sample Type:	Stack	Analysis start- End Date:	18/03/2023-21/03/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	36
Stack Attached To:	Zn Coating-3	Stack gas velocity (m/sec):	5.41
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0677

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	11.05	mg/Nm ³	IS 11255- Part 1	20

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036 / APCM-Bag Filter / Cyclone Separator

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN2262B/51/V59/05

Reporting Date: 31/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2262B/51/V59/05	Sampling Date:	24/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/03/2023
Sample Type:	Stack	Analysis start- End Date:	27/03/2023-30/03/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	35
Stack Attached To:	Picking & Passivation	Stack gas velocity (m/sec):	8.79
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8042

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	3.85	mg/Nm ³	IS 11255- Part 1	150
2	Oxides of Nitrogen	8.0	ppm	GGMP/SOP/SEA/68	25

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036 / APCM-Wet Scrubber

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2262B/51/V59/05A

Reporting Date: 31/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415

SAMPLE DETAILS

Lab ID:	Lab/PN2262B/51/V59/05	Sampling Date:	24/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/03/2023
Sample Type:	Stack	Analysis start- End Date:	27/03/2023-30/03/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	35
Stack Attached To:	Picking & Passivation	Stack gas velocity (m/sec):	8.79
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8042

Sr.No	Parameters*	Results	Unit	Test Method	Norms
1	Hydrogen Fluoride	1.02	mg/Nm ³	EPA Method 26 A	6
2	HCL	BQL (QL=0.04)	mg/Nm ³	EPA Method 26A	20

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036 / APCM-Wet Scrubber

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN2262B/51/V59/06

Reporting Date: 31/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2262B/51/V59/06	Sampling Date:	24/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/03/2023
Sample Type:	Stack	Analysis start- End Date:	27/03/2023-30/03/2023
Stack Height & Dia (m):	15	Stack Temperature (°C):	34
Stack Attached To:	Scrubber For Pilger	Stack gas velocity (m/sec):	6.11
Fuel Used:	-	Volume of Air Sampled in NM3:	1.2199

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	6.88	mg/Nm ³	IS 11255- Part 1	150
2	Oxides of Nitrogen	10.0	ppm	GGMP/SOP/SEA/68	25

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036 / APCM-Wet Scrubber

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2262B/51/V59/06A

Reporting Date: 31/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415

SAMPLE DETAILS

Lab ID:	Lab/PN2262B/51/V59/06	Sampling Date:	24/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/03/2023
Sample Type:	Stack	Analysis start- End Date:	27/03/2023-30/03/2023
Stack Height & Dia (m):	15	Stack Temperature (°C):	34
Stack Attached To:	Scrubber For Pilger	Stack gas velocity (m/sec):	6.11
Fuel Used:	-	Volume of Air Sampled in NM3:	1.2199

Sr.No	Parameters*	Results	Unit	Test Method	Norms
1	Hydrogen Fluoride	1.17	mg/Nm ³	EPA Method 26 A	6
2	HCL	BQL (QL=0.04)	mg/Nm ³	EPA Method 26A	20

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036 / APCM-Wet Scrubber

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2337B/51/V63/05

Reporting Date: 05/04/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2337B/51/V63/05	Sampling Date:	30/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/04/2023
Sample Type:	Stack	Analysis start- End Date:	01/04/2023-04/04/2023
Stack Height & Dia (m):	32 & 1.5	Stack Temperature (°C):	87
Stack Attached To:	Annealing Furnace-I	Stack gas velocity (m/sec):	5.83
Fuel Used:	BFG/LPG	Volume of Air Sampled in NM3:	1.0111

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	11.17	mg/Nm ³	IS 11255- Part 1	150
2	Sulphur Dioxides	15.0	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	23.0	ppm	GGMPL/SOP/SEA/68	50

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Ritu Shah
Analyzed By
Ritu Shah



P. B. Patel

Authorized Signatory
Payal Patel

Page No : 1/1

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**Bag House
Performance
Evaluation
Report**

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2113B/51/V47/06

Reporting Date: 13/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2113B/51/V47/06	Sampling Date:	06/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/03/2023
Sample Type:	Stack	Analysis start- End Date:	09/03/2023-13/03/2023
Stack Height & Dia (m):	35 & 1.5	Stack Temperature (°C):	39
Stack Attached To:	De-Dusting Stack-1	Stack gas velocity (m/sec):	11.09
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9668

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2202.11	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	3.14	mg/Nm ³	IS 11255- Part 1	100

STACK MONITORING: Plant Name: Blast Furnace-1; GPCB ID: 18037 / APCM-Bag Filter.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By
Ritu Shah



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Payal Patel

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To,

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

This is to represent that our lab has carried out sampling of following stack and the removal efficiency of stack has been calculated as per below the information:

01.	GGMPL/PN2113B/51/V47/05	De-Dusting Stack-1	99.9
Plant Name: Blast Furnace 1; GPCB ID: 18037/APCM –Bag Filter			



P. B. Pute

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2082B/51/V44/02

Reporting Date: 07/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2082B/51/V44/02	Sampling Date:	01/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/03/2023
Sample Type:	Stack	Analysis start- End Date:	03/03/2023-06/03/2023
Stack Height & Dia (m):	40 & 1.5	Stack Temperature (°C):	38
Stack Attached To:	De-Dusting Stack-2	Stack gas velocity (m/sec):	11.92
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0694

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2415.09	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	20.55	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Blast Furnace 2; GPCB ID: 29026 / APCM-Bag Filter

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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To,

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

This is to represent that our lab has carried out sampling of following stack and the removal efficiency of stack has been calculated as per below the information:

Sr. No.	Reports No.	Stack Name	% Efficiency calculated to be
01.	GGMPL/PN2082B/51/V44/02	De-Dusting Stack-2	99.1
Plant Name: Blast Furnace 2; GPCB ID: 29026 / APCM-Bag Filter			

GO GREEN MECHANISMS PVT. LTD.

P. B. Patel

AUTHORIZED SIGNATORY



CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2310B/51/V61/03

Reporting Date: 04/04/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2310B/51/V61/03	Sampling Date:	28/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/03/2023
Sample Type:	Stack	Analysis start- End Date:	31/03/2023-03/04/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	130
Stack Attached To:	Sinter Furnace 1	Stack gas velocity (m/sec):	16.53
Fuel Used:	BFG	Volume of Air Sampled in NM3:	1.1283

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	3614.19	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	46.78	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Sinter Plant 1 GPCB ID : 35456 / APCM-ESP/Bag Filter.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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To,

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

This is to represent that our lab has carried out sampling of following stack and the removal efficiency of stack has been calculated as per below the information:

Sr. No.	Reports No.	Stack Name	% Efficiency calculated to be
01.	GGMPL/PN2310B/51/V61/03	Sinter Furance-01	98.7
Plant Name: Sinter Plant 1; GPCB ID : 35456 / APCM-ESP/Bag Filter.			



GO GREEN MECHANISMS PVT. LTD.

P. B. Puri
AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2125B/51/V49/03

Reporting Date: 13/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2125B/51/V49/03	Sampling Date:	09/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	11/03/2023
Sample Type:	Stack	Analysis start- End Date:	11/03/2023-13/03/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	139
Stack Attached To:	Sinter Furnace 2	Stack gas velocity (m/sec):	16.61
Fuel Used:	BFG	Volume of Air Sampled in NM3:	1.1320

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1747.52	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	34.54	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Sinter Plant 2; GPCB ID: 29017 / APCM-ESP/Bag Filter.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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To,

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

This is to represent that our lab has carried out sampling of following stack and the removal efficiency of stack has been calculated as per below the information:

Sr. No.	Reports No.	Stack Name	% Efficiency calculated to be
01.	GGMPL/PN2125B/51/V49/03	Sinter Furance-02	98.0
Plant Name: Sinter Plant-02; GPCB ID 29017 /APCM-ESP/Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P.B. Puri

AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2091B/51/V46/06

Reporting Date: 10/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2091B/51/V46/06	Sampling Date:	03/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/03/2023
Sample Type:	Stack	Analysis start- End Date:	06/03/2023-09/03/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	38
Stack Attached To:	Zn Coating Machine FL-7	Stack gas velocity (m/sec):	10.27
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9468

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	3365.23	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	15.04	mg/Nm ³	IS 11255- Part 1	20

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036 / APCM-Bag Filter

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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To,

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

This is to represent that our lab has carried out sampling of following stack and the removal efficiency of stack has been calculated as per below the information:

Sr.No.	Reports No.	Stack Name	% Efficiency calculated to be
01.	GGMPL/PN2091B/51/V46/06	Zinc Coating machine FL-7	99.6
Plant Name: Pipe Plant; GPCB ID 18036 /APCM –Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P. B. Patel

AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2175B/51/V53/04

Reporting Date: 21/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2175B/51/V53/04	Sampling Date:	15/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2023
Sample Type:	Stack	Analysis start- End Date:	17/03/2023-20/03/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	43
Stack Attached To:	Mg Treatment	Stack gas velocity (m/sec):	10.13
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8813

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2644.16	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	24.96	mg/Nm ³	IS 11255- Part 1	50

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036 / APCM-Bag Filter

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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To,

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

This is to represent that our lab has carried out sampling of following stack and the removal efficiency of stack has been calculated as per below the information:

Sr. No.	Reports No.	Stack Name	% Efficiency calculated to be
01.	GGMPL/PN2175B/51/V53/04	Mg Treatment	99.1
Plant Name: Pipe Plant; GPCB ID 18036 /APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P. B. Ayes

AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2181B/51/V54/03

Reporting Date: 22/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2181B/51/V54/03	Sampling Date:	16/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2023
Sample Type:	Stack	Analysis start- End Date:	18/03/2023-21/03/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	37
Stack Attached To:	Zn Coating-2	Stack gas velocity (m/sec):	10.59
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9236

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1536.81	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	14.46	mg/Nm ³	IS 11255- Part 1	20

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036 / APCM-Bag Filter / Cyclone Separator

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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To,

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

This is to represent that our lab has carried out sampling of following stack and the removal efficiency of stack has been calculated as per below the information:

Sr. No.	Reports No.	Stack Name	% Efficiency calculated to be
01.	GGMPL/PN2181B/51/V54/03	Zinc Coating 2	99.1
Plant Name: Pipe Plant; GPCB ID 18036 / APCM - Bag Filter / Cyclone Separator			

GO GREEN MECHANISMS PVT. LTD.

P. B. Raj
AUTHORIZED SIGNATORY



CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2241B/51/V58/03

Reporting Date: 28/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2241B/51/V58/03	Sampling Date:	22/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/03/2023
Sample Type:	Stack	Analysis start- End Date:	25/03/2023-27/03/2023
Stack Height & Dia (m):	30 & 1.0	Stack Temperature (°C):	58
Stack Attached To:	Mg Converter-1	Stack gas velocity (m/sec):	12.41
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0507

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2242.21	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	26.41	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036 / APCM-Bag Filter

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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To,

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

This is to represent that our lab has carried out sampling of following stack and the removal efficiency of stack has been calculated as per below the information:

Sr. No.	Reports No.	Stack Name	% Efficiency calculated to be
01.	GGMPL/PN2241B/51/V58/03	Mg Converter-1	98.8
Plant Name: Pipe Plant; GPCB ID 18036 /APCM- Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P.B. Raje
AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2241B/51/V58/05

Reporting Date: 28/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2241B/51/V58/05	Sampling Date:	22/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/03/2023
Sample Type:	Stack	Analysis start- End Date:	25/03/2023-27/03/2023
Stack Height & Dia (m):	30 & 0.5	Stack Temperature (°C):	47
Stack Attached To:	Mg Converter-2	Stack gas velocity (m/sec):	11.80
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0197

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	3244.48	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	30.94	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036 / APCM-Bag Filter

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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To,

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

This is to represent that our lab has carried out sampling of following stack and the removal efficiency of stack has been calculated as per below the information:

Sr. No.	Reports No.	Stack Name	% Efficiency calculated to be
01.	GGMPL/PN2241B/51/V58/04	Mg Converter-2	99.0
Plant Name: Pipe Plant; GPCB ID 18036 / APCM –Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P. B. Patel

AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2295B/51/V61/06

Reporting Date: 04/04/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2295B/51/V61/06	Sampling Date:	27/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/03/2023
Sample Type:	Stack	Analysis start- End Date:	30/03/2023-03/04/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	37
Stack Attached To:	Zn Coating-6	Stack gas velocity (m/sec):	9.95
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8798

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2344.05	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	13.86	mg/Nm ³	IS 11255- Part 1	20

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036 / APCM-Bag Filter

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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To,

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

This is to represent that our lab has carried out sampling of following stack and the removal efficiency of stack has been calculated as per below the information:

Sr. No.	Reports No.	Stack Name	% Efficiency calculated to be
01.	GGMPL/PN2295B/51/V61/06	Zinc Coating 6	99.4
Plant Name: Pipe Plant; GPCB ID 18036 /APCM-Bag Filter			

GO GREEN MECHANISMS PVT. LTD.

P. B. Patel

AUTHORIZED SIGNATORY



Ambient Noise Monitoring Report

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2136B/51/V50/07

Reporting Date: 17/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS


Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 10/03/2023
Sample Description: Ambient Noise

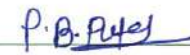
Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN2136B/51/V50/07	Old Colony	Day Time	dB(A)Leq	IS 9989	51.01	55
2	Lab/PN2136B/51/V50/07	Old Colony	Night Time	dB(A)Leq	IS 9989	42.55	45

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min:46.1 ,Max:54.2 Value in dB(A) Night Time: Min:40.1 ,Max:44.3

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2181B/51/V54/05

Reporting Date: 22/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 16/03/2023
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN2181B/51/V54/05	Main Gate	Day Time	dB(A)Leq	IS 9989	52.58	75
2	Lab/PN2181B/51/V54/05	Main Gate	Night Time	dB(A)Leq	IS 9989	46.81	70

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min:47.2 ,Max:54.9 Value in dB(A) Night Time: Min:45.3 ,Max:49.2

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2192B/51/V55/05

Reporting Date: 24/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS


Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 17/03/2023
Sample Description: Ambient Noise


Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN2192B/51/V55/05	Spiral-2 Pipe Storage Yard	Day Time	db(A)Leq	IS 9989	64.59	75
2	Lab/PN2192B/51/V55/05	Spiral-2 Pipe Storage Yard	Night Time	dB(A)Leq	IS 9989	56.30	70

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min:57.2 ,Max:67.3 Value in dB(A) Night Time: Min:51.7 ,Max:60.5

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2262B/51/V59/07

Reporting Date: 31/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS


Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 24/03/2023
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN2262B/51/V59/07	School Building	Day Time	dB(A)Leq	IS 9989	50.9	55
2	Lab/PN2262B/51/V59/07	School Building	Night Time	dB(A)Leq	IS 9989	43.3	45

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min:46.2 ,Max:54.7 Value in dB(A) Night Time: Min:32.1 ,Max:44.8

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN2310B/51/V61/06

Reporting Date: 04/04/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

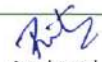
Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 28/03/2023
Sample Description: Ambient Noise

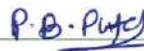
Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN2310B/51/V61/06	Admin building	Day Time	dB(A)Leq	IS 9989	51.75	75
2	Lab/PN2310B/51/V61/06	Admin building	Night Time	dB(A)Leq	IS 9989	47.52	70

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min:47.2 ,Max:54.8 Value in dB(A) Night Time: Min:46.3 ,Max:49.0

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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Workzone Noise Report

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2144B/51/V51/03

Reporting Date: 16/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 11/03/2023
Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN2144B/51/V51/03A	BF-1 Control Room	Day Time	dB(A)Leq	IS 4758	56.2	85
2	Lab/PN2144B/51/V51/03B	CPP Control Room	Day Time	dB(A)Leq	IS 4758	58.1	85
3	Lab/PN2144B/51/V51/03C	Laboratory	Day Time	dB(A)Leq	IS 4758	66.3	85
4	Lab/PN2144B/51/V51/03D	Blower House	Day Time	dB(A)Leq	IS 4758	69.5	85

WORKZONE NOISE LEVEL MONITORING Plant Name: Blast Furnace 1; GPCB ID: 18037, Norms As Per Factory Act 1948 (8 hr per day exposure).

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




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Payal Patel

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Head Office & Lab

Dayal Estate, National Highway No.8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426
Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2144B/51/V51/03

Reporting Date: 16/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 11/03/2023
Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN2144B/51/V51/03A	BF-2 Control Room	Day Time	dB(A)Leq	IS 4758	56.2	85
2	Lab/PN2144B/51/V51/03B	Cast House	Day Time	dB(A)Leq	IS 4758	58.1	85
3	Lab/PN2144B/51/V51/03C	Stock House	Day Time	dB(A)Leq	IS 4758	66.3	85
4	Lab/PN2144B/51/V51/03D	Blower House	Day Time	dB(A)Leq	IS 4758	69.5	85

WORKZONE NOISE LEVEL MONITORING Plant Name: Blast Furnace 2; GPCB ID: 29026, Norms As Per Factory Act 1948 (8 hr per day exposure).

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN2152B/51/V52/06

Reporting Date: 21/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 13/03/2023
Sample Description: Workzone Noise

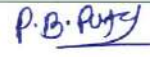
Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN2152B/51/V52/06A	Sinter-1 Control Room	Day Time	dB(A)Leq	IS 4758	57.8	85
2	Lab/PN2152B/51/V52/06B	Machine Area	Day Time	dB(A)Leq	IS 4758	74.6	85
3	Lab/PN2152B/51/V52/06C	Nr. Flux Building	Day Time	dB(A)Leq	IS 4758	61.1	85

WORKZONE NOISE LEVEL MONITORING Plant Name: Sinter Plant 1; GPCB ID: 35456, Norms As Per Factory Act 1948 (8 hr per day exposure).

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN2125B/51/V49/06

Reporting Date: 13/03/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 09/03/2023
Sample Description: Workzone Noise

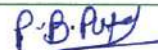
Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN2125B/51/V49/06A	Control Room	Day Time	dB(A)Leq	IS 4758	58.2	85
2	Lab/PN2125B/51/V49/06B	Sinter Machine Area	Day Time	dB(A)Leq	IS 4758	73.0	85
3	Lab/PN2125B/51/V49/06C	Nr. Proprtional Building	Day Time	dB(A)Leq	IS 4758	66.4	85

WORKZONE NOISE LEVEL MONITORING Plant Name: Sinter Plant 2; GPCB ID: 29017, Norms As Per Factory Act 1948 (8 hr per day exposure).

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2201B/51/V56/04

Reporting Date: 24/03/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 18/03/2023
Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN2201B/51/V56/04A	DISP Annealing Furnace Control Room	Day Time	dB(A)Leq	IS 4758	64.2	85
2	Lab/PN2201B/51/V56/04B	SDP-1 CCM Area	Day Time	dB(A)Leq	IS 4758	69.9	85
3	Lab/PN2201B/51/V56/04C	Mould Shop	Day Time	dB(A)Leq	IS 4758	71.4	85
4	Lab/PN2201B/51/V56/04D	ETP Area	Day Time	dB(A)Leq	IS 4758	69.6	85
5	Lab/PN2201B/51/V56/04E	Pickling & Passivation	Day Time	dB(A)Leq	IS 4758	66.8	85
6	Lab/PN2201B/51/V56/04F	Spiral ID & OD Area	Day Time	dB(A)Leq	IS 4758	65.5	85
7	Lab/PN2201B/51/V56/04G	FL-7 Office	Day Time	dB(A)Leq	IS 4758	56.1	85

WORKZONE NOISE LEVEL MONITORING Plant Name: Pipe Plant; GPCB ID : 18036, Norms As Per Factory Act 1948 (8 hr per day exposure).

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit



Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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Form -37


Form No. 37

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant.: Blast Furnace-2 Cast House at JINDAL SAW LIMITED, Samaghogha. (GPCB ID:29026)
- 2 Raw materials, by products and finished products involved in the process. Iron ore,Sinter,Coke etc,Bf Slag & Hot Metal
- 3 Particulars of sampling

Date of Sampling : 22.03.2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Cast House	CO	CO Analyzer	2	2.74 mg/m ³ 3.20 mg/m ³	2.97 mg/m ³	40 mg/m ³	IS 5182(Part-10)	3	-		Pankil
				2	2.53 mg/m ³ 1.98 mg/m ³	2.25 mg/m ³	10 mg/m ³					
				Noise	Noise Meter	2	70.1 dB 64.8 dB	67.45 dB	85 dB	IS 4758	-	



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AUTHORIZED SIGNATORY

Form No. 37

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).
 1 Name of the Department/Plant.: Sinter Plant-1 first floor at JINDAL SAW LIMITED, Samaghogha. (GPCB ID:35456)

2 Raw materials, by products and finished products involved in the process. Lime Stone,Coke, Dolomite etc & Sinter
 3 Particulars of sampling

Date of Sampling : 13.03.2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
		CO	CO Analyzer	2	2.40 mg/m ³ 3.10 mg/m ³	2.74 mg/m ³	40 mg/m ³	IS 5182 (Part-10)				
1	Sinter -1 First Floor	RSPM	Handy Sampler	2	2.18 mg/m ³ 2.71 mg/m ³	2.44 mg/m ³	10 mg/m ³	NIOSH-0600	4	-	<i>P. B. Pate</i>	Pankil
		Noise	Noise Meter	2	68.9 71.6	70.25 dB	85 dB	IS 4758				



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P. B. Pate

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Form No. 37

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant.: **Sinter Plant-2 first floor at JINDAL SAW LIMITED, Samaghogha. (GPCB ID:29017)**
- 2 Raw materials, by products and finished products involved in the process. **Lime Stone,Coke, Dolomite etc & Sinter**
- 3 Particulars of sampling

Date of Sampling : 09.03.2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (AS given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
		CO	CO Analyzer	2	1.83 mg/m ³ 3.32 mg/m ³	2.57 mg/m ³	40 mg/m ³	IS 5182 (Part-10)				
1	Sinter -2 First Floor	RSPM	Handy Sampler	2	2.25 mg/m ³ 2.69 mg/m ³	2.47 mg/m ³	10 mg/m ³	NIOSH-0600	4	-	<i>P.</i>	Pankil
		Noise	Noise Meter	2	70.1 dB 67.4 dB	68.75 dB	85 dB	IS 4758				



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P. B. P. P.

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Form No. 37

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant.: **Blast Furnace-1 at JINDAL SAW LIMITED, Samaghogha. (GPCB ID:18037)**
- 2 Raw materials, by products and finished products involved in the process. **Iron ore,Sinter,Coke etc,Bf Slag & Hot Metal**
- 3 Particulars of sampling

Date of Sampling : 10.03.2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Cast House	CO	CO Analyzer	2	2.40 mg/m ³ 2.86 mg/m ³	2.63 mg/m ³	40 mg/m ³	IS 5182 (Part-10)	3	-		Pankil
				2	2.54 mg/m ³ 2.39 mg/m ³	2.46 mg/m ³	10 mg/m ³	NIOSH-0600				
		2	68.4 dB 71.4 dB	69.9 dB	85 dB	IS 4758						



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P. B. Patel

AUTHORIZED SIGNATORY

Form No. 37

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant.: **Pipe Plant at JINDAL SAW LIMITED, Samaghogha. (GPCB ID:18036)**
- 2 Raw materials, by products and finished products involved in the process. **Hot Metal,Mg,Zn,ms Scrap,Cement etc & DI pipe**
- 3 Particulars of sampling

Date of Sampling : 25.03.2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	SDP-2 Induction	VOC	Low Volume Pump	5	6	7	8	9	10	11	12	13
				2	4.6 mg/m3 5.3 mg/m3	4.95 mg/m ³	40 mg/m ³					
1	SDP-2 Induction	RSPM	Handy Sampler	2	1.83 mg/m ³ 2.77 mg/m ³	2.30 mg/m ³	10 mg/m ³	NIOSH-0600	3	-	Pankil	Pankil
				2	70.1 dB 59.4 dB	64.75 dB	85 dB					



GO GREEN MECHANISMS PVT. LTD.

P. B. Pankil


AUTHORIZED SIGNATORY

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant.: Pipe Plant at JINDAL SAW LIMITED, Samaghogha. (GPCB ID:18036)
- 2 Raw materials, by products and finished products involved in the process. Hot Metal,Mg,Zn,ms Scrap,Cement etc & DI pipe
- 3 Particulars of sampling

Date of Sampling : 10.03.2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
1	DISP CCM Area	RSPM	Handy Sampler	2	1.87 mg/m ³ 2.49 mg/m ³	2.18 mg/m ³	10 mg/m ³	NIOSH-0600	4	-		Pankil
		Noise	Noise Meter	2	71.5 dB 68.9 dB	70.2 dB	85 dB	IS 4758				



GO GREEN MECHANISMS PVT. LTD.

P. B. Puri

AUTHORIZED SIGNATORY

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant.: **Pipe Plant at JINDAL SAW LIMITED, Samaghogha. (GPCB ID:18036)**
- 2 Raw materials, by products and finished products involved in the process. **PE,Epoxy Powder & PE/Epoxy Coating Pipe**
- 3 Particulars of sampling

Date of Sampling : 30.03.2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Shot Blasting	RSPM	Handy Sampler	2	2.76 mg/m ³ 3.07 mg/m ³	2.91 mg/m ³	10 mg/m ³	NIOSH-0600	4	-	<i>P. B. Puri</i>	Pankil
				2	70.4 dB 65.8 dB	68.10 dB	85 dB					



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P. B. Puri

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Form No. 37

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

1 Name of the Department/Plant: LPG YARD at JINDAL SAW LIMITED (IPU-Samaghogha)

2 Raw materials, by-products and finished products involving in the process-- LPG Gas

3 Particulars of sampling- (1) LEL (%)

Date of Sampling : 18.03.2023

Sr. No	Location/ Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)		Reference Method	Number of workers exposed at the location being monitored	Remark	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average	LEL (%)	(mg/m ³)					
1	LPG YARD	LEL	Gas Detector	02	...	ND	...	2.5 (Propane)	...	LEL monitor	-	Pankil	
		RSPM	Handy Sampler	02	2.32 mg/m ³ 1.78 mg/m ³	2.05 mg/m ³	10 mg/m ³	NIOSH-0600	3	NIOSH-0600			
		Noise	Noise Meter	02	72.3 dB 67.2 dB	69.75 dB	85 dB	IS 4758	IS 4758				



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P.B. Pankil

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Form No. 37

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant.: **Pipe Plant at JINDAL SAW LIMITED, Samaghogha. (GPCB ID:18036)**
- 2 Raw materials, by products and finished products involved in the process. **Saw Wire,Flux etc & SS LSAW Pipe.**
- 3 Particulars of sampling

Date of Sampling : 18.03.2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Spiral Id and OD Area	RSPM	Handy Sampler	2	2.83 mg/m ³ 1.84 mg/m ³	2.33 mg/m ³	10 mg/m ³	NIOSH-0600	4	-	<i>P.</i>	Pankil
		Noise	Noise Meter	2	69.8 dB 67.3 dB	68.5 dB	85 dB	IS 4758				



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P.B. Path

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(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant.: **Pipe Plant at JINDAL SAW LIMITED, Samaghogha. (GPCB ID:18036)**
- 2 Raw materials, by products and finished products involved in the process. **SS Plate,Saw Wire,Flux and SSL Saw Pipe**
- 3 Particulars of sampling

Date of Sampling : 31.03.2023

Sr. No	Location Operation monitored	Identified Contaminant	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	Pickling and Passivation Area	RSPM	Handy Sampler	5	6	7	8	9	10	11	12	13
				2	3.34 mg/m ³ 2.26 mg/m ³	2.83 mg/m ³	10 mg/m ³	NIOSH-0600	4	-	f.	Pankli
		Noise	Noise Meter	2	69.7 dB 66.4 dB	68.05 dB	85 dB	IS 4758	4	-	f.	Pankli
				2	BQL BQL	BQL	2.5 mg/m ³	NIOSH-7903	4	-	f.	Pankli
		HNO ₃	Handy Sampler	2	BQL BQL	BQL	5 mg/m ³	NIOSH-7903				



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P. B. Raj


AUTHORIZED SIGNATORY

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant.: **Pipe Plant at JINDAL SAW LIMITED, Samaghogha. (GPCB ID:18036)**
- 2 Raw materials, by products and finished products involved in the process. **Hot Metal,Mg,Zn,ms Scrap,Cement etc & DI pipe**
- 3 Particulars of sampling

Date of Sampling : 16.03.2023

Sr. No	Location Operation monitored	Identified Contaminant	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
		RSPM	Handy Sampler	2	2.64 mg/m ³ 2.00 mg/m ³	2.32 mg/m ³	10 mg/m ³	NIOSH-0600				
		Noise	Noise Meter	2	71.4 dB 68.2 dB	69.80 dB	85 dB	IS 4758	4	-		Pankil
1	SDP 2 Bitumin Area	VOC	Low Volume Pump	2	5.5 mg/m ³ 5.0 mg/m ³	5.25 mg/m ³	-	IS 5182 Part-11				



GO GREEN MECHANISMS PVT. LTD.

P. B. Pate

AUTHORIZED SIGNATORY

Wastewater Report

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2280B/51/V60/01

Reporting Date : 04/04/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN2280B/51/V60/01	Sampling Date:	25/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/03/2023
Sample Type:	Waste Water	Analysis Start Date:	27/03/2023
Sample Description:	STP Outlet	Analysis End Date:	03/04/2023
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.49	-	IS 3025- Part 11	6.5 to 8.5
2	Total Dissolved Solids	964.00	mg/L	APHA 23rd Edn 2540 C	-
3	Total Suspended Solids	BQL (QL=10)	mg/L	APHA 23rd Edn 2540 D	100
4	Chemical Oxygen Demand	25.00	mg/L	APHA 23rd Edn 5220 B	50
5	BOD at 20°C – 5 Days	7.66	mg/L	APHA 23rd Edn 5210 B	30

Plant Name: Blast Furnace-1; GPCB ID: 18037

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN2280B/51/V60/01A

Reporting Date : 04/04/2023

JINDAL SAW LIMITED
Samaghoha, Mundra, Kutch-370415

SAMPLE DETAILS

Lab ID:	Lab/PN2280B/51/V60/01	Sampling Date:	25/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/03/2023
Sample Type:	Waste Water	Analysis Start Date:	27/03/2023
Sample Description:	STP Outlet	Analysis End Date:	03/04/2023
Sample Quantity:	4 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters*	Results	Unit	Test Method	Norm
1	Feacal Coliform	Absent	mpn/100mL	IS 1622	1000MPN/100ml

Plant Name: Blast Furnace-1; GPCB ID: 18037

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Ritu Shah
Analyzed By
Ritu Shah



P. B. Patel
Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2280B/51/V60/02

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415

Reporting Date : 04/04/2023



SAMPLE DETAILS

Lab ID:	Lab/PN2280B/51/V60/02	Sampling Date:	25/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/03/2023
Sample Type:	Waste Water	Analysis Start Date:	27/03/2023
Sample Description:	STP Inlet	Analysis End Date:	03/04/2023
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.42	-	IS 3025- Part 11	-
2	Total Dissolved Solids	1058.00	mg/L	APHA 23rd Edn 2540 C	-
3	Total Suspended Solids	130.00	mg/L	APHA 23rd Edn 2540 D	-
4	Chemical Oxygen Demand	115.00	mg/L	APHA 23rd Edn 5220 B	-
5	BOD at 20°C – 5 Days	42.00	mg/L	APHA 23rd Edn 5210 B	-

Plant Name: Blast Furnace-1; GPCB ID: 18037

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Ritu Shah
Analyzed By
Ritu Shah



P. B. Patel
Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN2280B/51/V60/03

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415

Reporting Date : 04/04/2023



SAMPLE DETAILS

Lab ID:	Lab/PN2280B/51/V60/03	Sampling Date:	25/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/03/2023
Sample Type:	Waste Water	Analysis Start Date:	27/03/2023
Sample Description:	ETP Outlet	Analysis End Date:	03/04/2023
Sample Quantity:	4 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.52	-	IS 3025- Part 11	6.5 to 8.5
2	Temperature °C	27.7	°C	APHA 23rd Edn 2550 B	40
3	Color	BQL (QL=1)	CU	IS 3025- Part 4	100
4	Iron as Fe	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	3
5	Sulphate	119.22	mg/L	APHA 23rd Edn 4500 SO4 E	1000
6	Fluoride	0.49	mg/L	APHA 23rd Edn 4500 F D	2
7	Phenolic compounds	BQL (QL=0.01)	mg/L	IS 3025- Part 43	1
8	Total Dissolved Solids	984.00	mg/L	APHA 23rd Edn 2540 C	2100
9	Total Suspended Solids	BQL (QL=10)	mg/L	APHA 23rd Edn 2540 D	100
10	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
11	Chloride	252.42	mg/L	IS 3025- Part 32	600
12	Chemical Oxygen Demand	55.00	mg/L	APHA 23rd Edn 5220 B	100

Plant Name: Pipe Plant; GPCB ID : 18036

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Ritu Shah
Analyzed By
Ritu Shah



P. B. Patel
Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2280B/51/V60/03

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date : 04/04/2023



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN2280B/51/V60/03	Sampling Date:	25/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/03/2023
Sample Type:	Waste Water	Analysis Start Date:	27/03/2023
Sample Description:	ETP Outlet	Analysis End Date:	03/04/2023
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Ammonical Nitrogen	7.05	mg/L	APHA 23rd Edn 4500 NH3 C	50
14	Sulphide	BQL (QL=0.2)	mg/L	APHA 23rd Edn 4500 S2 F	5
15	BOD at 27 o C for 3 days	18.00	mg/L	IS 3025- Part 44	30
16	Sodium	0.0142	%	APHA 23rd Edn 3120 B	-
17	Zinc as Zn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	10
18	Sodium Absorption Ratio	1.71	-	GGMPL/SOP/W/52	26

Plant Name: Pipe Plant; GPCB ID : 18036

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN2280B/51/V60/04

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date : 04/04/2023



SAMPLE DETAILS

Lab ID:	Lab/PN2280B/51/V60/04	Sampling Date:	25/03/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/03/2023
Sample Type:	Waste Water	Analysis Start Date:	27/03/2023
Sample Description:	BF SGP	Analysis End Date:	03/04/2023
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.26	-	IS 3025- Part 11	6.5 to 8.5
2	Temperature °C	28.4	°C	APHA 23rd Edn 2550 B	40
3	Color	15.0	CU	IS 3025- Part 4	100
4	Sulphate	191.47	mg/L	APHA 23rd Edn 4500 SO4 E	1000
5	Phenolic compounds	BQL (QL=0.01)	mg/L	IS 3025- Part 43	1
6	Total Dissolved Solids	1010.00	mg/L	APHA 23rd Edn 2540 C	2100
7	Total Suspended Solids	34.00	mg/L	APHA 23rd Edn 2540 D	100
8	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
9	Chloride	311.90	mg/L	IS 3025- Part 32	600
10	Chemical Oxygen Demand	40.00	mg/L	APHA 23rd Edn 5220 B	100
11	Ammonical Nitrogen	2.91	mg/L	APHA 23rd Edn 4500 NH3 C	50
12	BOD at 27 o C for 3 days	12	mg/L	IS 3025- Part 44	30

Plant Name: Blast Furnace-1 GPCB ID : 18037

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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