

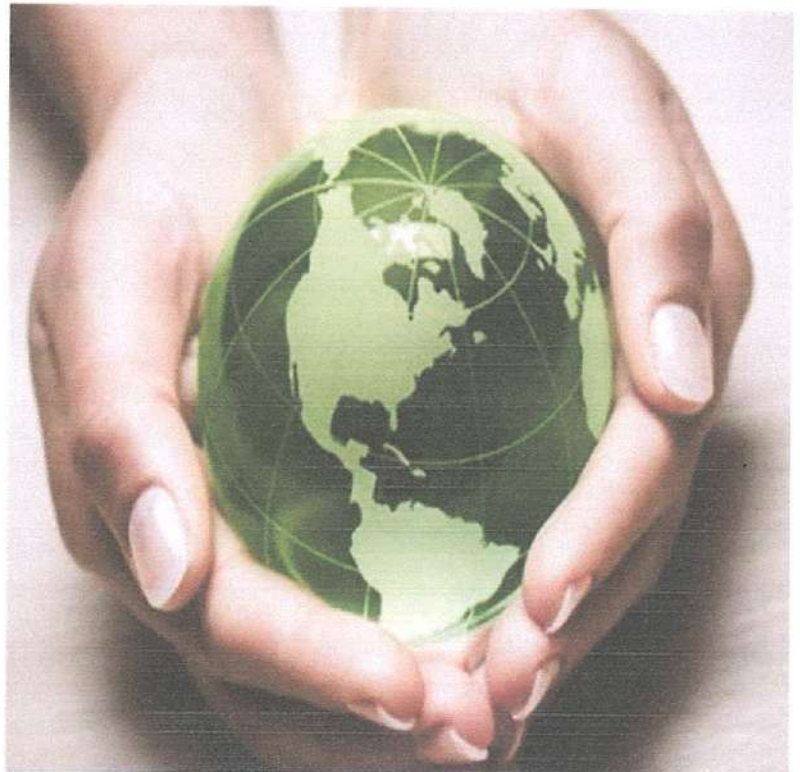
Report Issued to:

JINDAL SAW LIMITED

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

ENVIRONMENTAL MONTHLY MONITORING REPORT

MONTH OF JANUARY'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/P/J/22-23/51/V1/01

Reporting Date: 10/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V1/01	Sampling Start Date:	03/01/2023 (09:55 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/01/2023 (09:55 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	05/01/2023
Sample Description:	Old Colony	Analysis start- End Date:	05/01/2023-09/01/2023
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)	63.79	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	10.37	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	16.41	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	NNE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.5	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V1/02

Reporting Date: 10/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V1/02	Sampling Start Date:	03/01/2023 (10:21 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/01/2023 (10:21 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	05/01/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	05/01/2023-09/01/2023
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)	64.74	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.03	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.14	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	NNE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.5	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V1/03

Reporting Date: 10/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V1/03	Sampling Start Date:	03/01/2023 (10:43 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/01/2023 (10:43 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	05/01/2023
Sample Description:	STP	Analysis start- End Date:	05/01/2023-09/01/2023
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)	60.64	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.32	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	11.45	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	17.40	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	NNE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.5	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V1/04

Reporting Date: 10/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V1/04	Sampling Start Date:	03/01/2023 (11:18 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/01/2023 (11:18 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	05/01/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	05/01/2023-09/01/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

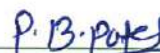
Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.80	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.31	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.39	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.5	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V4/01

Reporting Date: 16/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V4/01	Sampling Start Date:	06/01/2023 (09:45 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	07/01/2023 (09:45 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	08/01/2023
Sample Description:	Old Colony	Analysis start- End Date:	09/01/2023-13/01/2023
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)	56.67	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.41	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.65	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	6.2	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V4/02

Reporting Date: 16/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V4/02	Sampling Start Date:	06/01/2023 (10:15 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	07/01/2023 (10:15 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	08/01/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	09/01/2023-13/01/2023
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)	57.44	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.62	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.39	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	NE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	6.2	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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



Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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Reporting Date: 16/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V4/03	Sampling Start Date:	06/01/2023 (11:01 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	07/01/2023 (11:01 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	08/01/2023
Sample Description:	STP	Analysis start- End Date:	09/01/2023-13/01/2023
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)	59.86	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.55	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.38	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	6.2	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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Ritu Shah

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Ritu Shah



P.B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V4/04

Reporting Date: 16/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

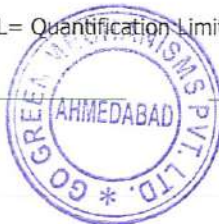
Lab ID:	Lab/P/J/22-23/51/V4/04	Sampling Start Date:	06/01/2023 (11:28 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	07/01/2023 (11:28AM)
Sample Type:	Ambient Air	Sample Receipt Date:	08/01/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	09/01/2023-13/01/2023
Env. Cond.-Sampling:	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)	62.36	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.84	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.66	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	6.2	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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Ritu Shah




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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V7/01

Reporting Date: 19/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V7/01	Sampling Start Date:	10/01/2023 (10:10 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	11/01/2023 (10:10 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	13/01/2023
Sample Description:	Old Colony	Analysis start- End Date:	13/01/2023-18/01/2023
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)	63.60	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.46	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.62	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	NNE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V7/02

Reporting Date: 19/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V7/02	Sampling Start Date:	10/01/2023 (11:16 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	11/01/2023 (11:16 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	13/01/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	13/01/2023-18/01/2023
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)	26.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.27	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.78	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	NNE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V7/03

Reporting Date: 19/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V7/03	Sampling Start Date:	10/01/2023 (10:52 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	11/01/2023 (10:52 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	13/01/2023
Sample Description:	STP	Analysis start- End Date:	13/01/2023-18/01/2023
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)	60.72	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.24	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.14	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	NNE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V7/04

Reporting Date: 19/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V7/04	Sampling Start Date:	10/01/2023 (11:45 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	11/01/2023 (11:45 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	13/01/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	13/01/2023-18/01/2023
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)	61.38	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.49	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.89	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	NNE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V9/01

Reporting Date: 23/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V9/01	Sampling Start Date:	13/01/2023 (09:10 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/01/2023 (09:10 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	16/01/2023
Sample Description:	Old Colony	Analysis start- End Date:	16/01/2023-21/01/2023
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)	62.27	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.34	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	5.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V9/02

Reporting Date: 23/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

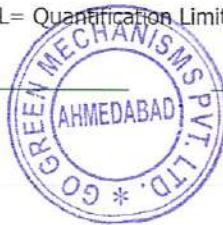
Lab ID:	Lab/P/J/22-23/51/V9/02	Sampling Start Date:	13/01/2023 (09:30 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/01/2023 (09:30 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	16/01/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	16/01/2023-21/01/2023
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)	60.73	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.33	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.41	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	5.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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Analyzed By
Ritu Shah




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V9/03

Reporting Date: 23/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V9/03	Sampling Start Date:	13/01/2023 (10:05 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/01/2023 (10:05 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	16/01/2023
Sample Description:	STP	Analysis start- End Date:	16/01/2023-21/01/2023
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)	59.28	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	24.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.22	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.38	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	5.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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Analyzed By
Ritu Shah




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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V9/04

Reporting Date: 23/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V9/04	Sampling Start Date:	13/01/2023 (10:35 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/01/2023 (10:35 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	16/01/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	16/01/2023-21/01/2023
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)	63.48	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)	13.91	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.15	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	5.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V10/01

Reporting Date: 25/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V10/01	Sampling Start Date:	16/01/2023 (09:28AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/01/2023 (09:28AM)
Sample Type:	Ambient Air	Sample Receipt Date:	19/01/2023
Sample Description:	Old Colony	Analysis start- End Date:	19/01/2023-24/01/2023
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)	59.68	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	24.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.92	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	14.92	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	NE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V10/02

Reporting Date: 25/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V10/02	Sampling Start Date:	16/01/2023 (10:01AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/01/2023 (10:01AM)
Sample Type:	Ambient Air	Sample Receipt Date:	19/01/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	19/01/2023-24/01/2023
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)	66.74	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.35	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.58	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	3.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V10/03

Reporting Date: 25/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V10/03	Sampling Start Date:	16/01/2023 (10:24 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/01/2023 (10:24 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	19/01/2023
Sample Description:	STP	Analysis start- End Date:	19/01/2023-24/01/2023
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)	60.26	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.54	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.14	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	NE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V10/04

Reporting Date: 25/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V10/04	Sampling Start Date:	16/01/2023 (11:00 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/01/2023 (11:00 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	19/01/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	19/01/2023-24/01/2023
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)	65.82	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.30	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.88	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	3.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V13/01

Reporting Date: 28/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V13/01	Sampling Start Date:	20/01/2023 (09:35 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/01/2023 (09:35 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/01/2023
Sample Description:	Old Colony	Analysis start- End Date:	23/01/2023-27/01/2023
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)	59.15	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.31	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.39	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	NNE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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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Report Number : GGMPL/P/J/22-23/51/V13/02

Reporting Date: 28/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V13/02	Sampling Start Date:	20/01/2023 (10:04 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/01/2023 (10:04 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/01/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	23/01/2023-27/01/2023
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)	61.71	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.28	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.14	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	NNE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V13/03

Reporting Date: 28/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V13/03	Sampling Start Date:	20/01/2023 (10:36 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/01/2023 (10:36 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/01/2023
Sample Description:	STP	Analysis start- End Date:	23/01/2023-27/01/2023
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)	58.96	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.88	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.96	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	NNE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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


Analyzed By
Ritu Shah




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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V13/04

Reporting Date: 28/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V13/04	Sampling Start Date:	20/01/2023 (11:02 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/01/2023 (11:02 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/01/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	23/01/2023-27/01/2023
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)	66.03	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.03	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.38	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	NNE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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



Analyzed By
Ritu Shah




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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V15/01

Reporting Date: 31/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V15/01	Sampling Start Date:	23/01/2023 (10:16 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/01/2023 (10:16 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	25/01/2023
Sample Description:	Old Colony	Analysis start- End Date:	25/01/2023-30/01/2023
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)	60.05	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.59	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.94	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	6.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V15/02

Reporting Date: 31/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V15/02	Sampling Start Date:	23/01/2023 (10:48 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/01/2023 (10:48 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	25/01/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	25/01/2023-30/01/2023
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)	56.70	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.69	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.34	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	6.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V15/03

Reporting Date: 31/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V15/03	Sampling Start Date:	23/01/2023 (11:15 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/01/2023 (11:15 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	25/01/2023
Sample Description:	STP	Analysis start- End Date:	25/01/2023-30/01/2023
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)	59.75	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.07	µg/m3	GGMPL/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)	22.84	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	6.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V15/04

Reporting Date: 31/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V15/04	Sampling Start Date:	23/01/2023 (11:39 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/01/2023 (11:39 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	25/01/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	25/01/2023-30/01/2023
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)	64.19	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	14.20	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	19.39	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	6.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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/P/J/22-23/51/V18/01

Reporting Date: 01/02/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V18/01	Sampling Start Date:	27/01/2023 (09:20 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/01/2023 (09:20AM)
Sample Type:	Ambient Air	Sample Receipt Date:	29/01/2023
Sample Description:	Old Colony	Analysis start- End Date:	29/01/2023-01/02/2023
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)	58.18	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.66	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.91	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	6.5	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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



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Payal Patel



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Reporting Date: 01/02/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V18/02	Sampling Start Date:	27/01/2023 (09:48 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/01/2023 (09:48 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	29/01/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	29/01/2023-01/02/2023
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)	55.71	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.24	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.66	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	6.5	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V18/03

Reporting Date: 01/02/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V18/03	Sampling Start Date:	27/01/2023 (10:08 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/01/2023 (10:08 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	29/01/2023
Sample Description:	STP	Analysis start- End Date:	29/01/2023-01/02/2023
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)	62.42	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)	12.54	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.06	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	6.5	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V18/04

Reporting Date: 01/02/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V18/04	Sampling Start Date:	27/01/2023 (10:40 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/01/2023 (10:40 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	29/01/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	29/01/2023-01/02/2023
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)	60.78	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.35	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.15	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	6.5	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JANUARY.

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Fugitive Monitoring Report

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V8/02

Reporting Date: 19/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V8/02	Sampling Start Date:	12/01/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/01/2023
Sample Type:	Fugitive	Sample Receipt Date:	14/01/2023
Sample Description:	BF-1 Dedusting	Analysis start- End Date:	14/01/2023-18/01/2023
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	23.87	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	14.98	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)	2459.57	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/P/J/22-23/51/V12/02

Reporting Date: 27/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V12/02	Sampling Start Date:	19/01/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/01/2023
Sample Type:	Fugitive	Sample Receipt Date:	21/01/2023
Sample Description:	BF-1 Ground Hopper	Analysis start- End Date:	21/01/2023-25/01/2023
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	25.86	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	16.72	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)	1924.40	µg/m ³	IS 5182 (part 4)	3000

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

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 : GGMPL/P/J/22-23/51/V5/02

Reporting Date: 16/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V5/02	Sampling Start Date:	07/01/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	07/01/2023
Sample Type:	Fugitive	Sample Receipt Date:	09/01/2023
Sample Description:	BF-2 Ground Hopper	Analysis start- End Date:	09/01/2023-13/01/2023
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	31.33	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	19.45	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)	1827.64	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


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V14/01

Reporting Date: 30/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V14/01	Sampling Start Date:	21/01/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/01/2023
Sample Type:	Fugitive	Sample Receipt Date:	24/01/2023
Sample Description:	BF 2 Cast House	Analysis start- End Date:	24/01/2023-28/01/2023
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	23.12	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	12.97	µg/m ³	IS 5182 (Part 2)	150
3	Lead (Pb)	BQL (QL=0.001)	ug/m ³	USEPA Method IO-3.4	2
4	Carbon Monoxide	BQL (QL=0.01)	mg/m ³	IS 5182 (part 10)	10 For 1 hr
5	Suspended Particulate Matter (SPM)	2231.19	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



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Ritu Shah



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Report Number : GGMPL/P/J/22-23/51/V14/02

Reporting Date: 30/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V14/02	Sampling Start Date:	21/01/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/01/2023
Sample Type:	Fugitive	Sample Receipt Date:	24/01/2023
Sample Description:	BF 2 De dusting	Analysis start- End Date:	24/01/2023-28/01/2023
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	25.18	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	14.59	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)	2130.64	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


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V5/01

Reporting Date: 16/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V5/01	Sampling Start Date:	07/01/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	07/01/2023
Sample Type:	Fugitive	Sample Receipt Date:	09/01/2023
Sample Description:	Sinter RMH Yard	Analysis start- End Date:	09/01/2023-13/01/2023
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	23.12	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	18.31	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)	2313.66	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



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V20/01

Reporting Date: 03/02/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V20/01	Sampling Start Date:	30/01/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/01/2023
Sample Type:	Fugitive	Sample Receipt Date:	01/02/2023
Sample Description:	Sinter 2 Ground Hopper	Analysis start- End Date:	01/02/2023-03/02/2023
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	22.38	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	13.14	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)	1700.23	µg/m ³	IS 5182 (part 4)	3000

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V17/01

Reporting Date: 31/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V17/01	Sampling Start Date:	25/01/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/01/2023
Sample Type:	Fugitive	Sample Receipt Date:	27/01/2023
Sample Description:	DISP CCM Area	Analysis start- End Date:	27/01/2023-30/01/2023
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	24.62	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	15.16	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)	1509.32	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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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/P/J/22-23/51/V17/02

Reporting Date: 31/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V17/02	Sampling Start Date:	25/01/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/01/2023
Sample Type:	Fugitive	Sample Receipt Date:	27/01/2023
Sample Description:	SDP-2 Induction	Analysis start- End Date:	27/01/2023-30/01/2023
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	28.35	µg/m3	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	19.39	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)	1608.60	µg/m3	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

Page No : 1/1

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**Stack
Monitoring
Report**

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V8/03

Reporting Date: 19/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V8/03	Sampling Date:	12/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/01/2023
Sample Type:	Stack	Analysis start- End Date:	14/01/2023-18/01/2023
Stack Height & Dia (m):	45 & 1.4	Stack Temperature (°C):	142
Stack Attached To:	Boiler-1	Stack gas velocity (m/sec):	5.81
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.9504

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	3.47	mg/Nm ³	IS 11255- Part 1	150
2	Oxides of Nitrogen	7.51	mg/Nm ³	GGMPL/SOP/SEA/68	25
3	Sulphur Dioxide	15.70	mg/Nm ³	GGMPL/SOP/SEA/68	40

STACK MONITORING Plant Name: 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/P/J/22-23/51/V8/04

Reporting Date: 19/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V8/04	Sampling Date:	12/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/01/2023
Sample Type:	Stack	Analysis start- End Date:	14/01/2023-18/01/2023
Stack Height & Dia (m):	45 & 1.4	Stack Temperature (°C):	146
Stack Attached To:	Boiler-II	Stack gas velocity (m/sec):	6.03
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.8853

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	2.37	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	13.08	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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Ritu Shah




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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V12/03

Reporting Date: 27/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V12/03	Sampling Date:	19/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/01/2023
Sample Type:	Stack	Analysis start- End Date:	21/01/2023-25/01/2023
Stack Height & Dia (m):	40 & 1.5	Stack Temperature (°C):	34
Stack Attached To:	De-Dusting Stack-1	Stack gas velocity (m/sec):	9.16
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8723

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM)	10.20	mg/Nm ³	IS 11255- Part 1	100

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

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


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Report Number: GGMPL/P/J/22-23/51/V17/03

Reporting Date: 31/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V17/03	Sampling Date:	25/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/01/2023
Sample Type:	Stack	Analysis start- End Date:	27/01/2023-30/01/2023
Stack Height & Dia (m):	45 & 1.4	Stack Temperature (°C):	152
Stack Attached To:	Stove Stack	Stack gas velocity (m/sec):	10.51
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.7050

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	2.41	mg/Nm ³	IS 11255- Part 1	150
2	Oxides of Nitrogen	13.53	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


Analyzed By
Ritu Shah




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Report Number: GGMPL/P/J/22-23/51/V10/05

Reporting Date: 25/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V10/05	Sampling Date:	16/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/01/2023
Sample Type:	Stack	Analysis start- End Date:	19/01/2023-24/01/2023
Stack Height & Dia (m):	40 & 1.5	Stack Temperature (°C):	35
Stack Attached To:	De-Dusting Stack-2	Stack gas velocity (m/sec):	9.11
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9890

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM)	22.14	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/L/P/J/22-23/51/V3/01

Reporting Date: 12/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V3/01	Sampling Date:	05/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/01/2023
Sample Type:	Stack	Analysis start- End Date:	07/01/2023-11/01/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	131
Stack Attached To:	Sinter Furnace-1	Stack gas velocity (m/sec):	11.55
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.8116

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Sulphur Dioxides	5.0	ppm	GGMP/L/SOP/SEA/68	100
2	Oxides of Nitrogen	15.0	ppm	GGMP/L/SOP/SEA/68	50
3	Particulate Matter (PM)	48.91	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



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Reporting Date: 12/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V3/04	Sampling Date:	05/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/01/2023
Sample Type:	Stack	Analysis start- End Date:	07/01/2023-11/01/2023
Stack Height & Dia (m):	32 & 0.8	Stack Temperature (°C):	139
Stack Attached To:	Discharge End	Stack gas velocity (m/sec):	9.43
Fuel Used:	-	Volume of Air Sampled in NM3:	0.6598

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	37.58	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V20/02

Reporting Date: 03/02/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V20/02	Sampling Date:	30/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/02/2023
Sample Type:	Stack	Analysis start- End Date:	01/02/2023-03/02/2023
Stack Height & Dia (m):	19 & 0.75	Stack Temperature (°C):	43
Stack Attached To:	Primary Mixture Drum	Stack gas velocity (m/sec):	4.12
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8342

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	36.80	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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Report Number: GGMPL/P/J/22-23/51/V20/03

Reporting Date: 03/02/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V20/03	Sampling Date:	30/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/02/2023
Sample Type:	Stack	Analysis start- End Date:	01/02/2023-03/02/2023
Stack Height & Dia (m):	32 & 1.40	Stack Temperature (°C):	35
Stack Attached To:	Fuel & Flux crusher and screening building	Stack gas velocity (m/sec):	5.18
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0472

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	22.38	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/P/J/22-23/51/V4/05

Reporting Date: 16/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V4/05	Sampling Date:	06/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/01/2023
Sample Type:	Stack	Analysis start- End Date:	09/01/2023-13/01/2023
Stack Height & Dia (m):	40 & 1.5	Stack Temperature (°C):	145
Stack Attached To:	Discharge End	Stack gas velocity (m/sec):	16.31
Fuel Used:	-	Volume of Air Sampled in NM3:	1.1077

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	46.13	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


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/P/J/22-23/51/V11/02

Reporting Date: 24/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V11/02	Sampling Date:	17/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/01/2023
Sample Type:	Stack	Analysis start- End Date:	19/01/2023-23/01/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	137
Stack Attached To:	Sinter Furnace 2	Stack gas velocity (m/sec):	10.99
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.9818

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	34.42	mg/Nm ³	IS 11255- Part 1	150
2	Sulphur Dioxides	7.0	ppm	GGMP/L/SOP/SEA/68	100
3	Oxides of Nitrogen	19.0	ppm	GGMP/L/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




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/P/J/22-23/51/V2/01

Reporting Date: 10/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V2/01	Sampling Date:	04/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/01/2023
Sample Type:	Stack	Analysis start- End Date:	06/01/2023-09/01/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	47
Stack Attached To:	Mg Converter-1	Stack gas velocity (m/sec):	10.21
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9106

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM)	32.28	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

Ritu Shah
Analyzed By
Ritu Shah



P. B. Patel
Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V6/01

Reporting Date: 16/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V6/01	Sampling Date:	09/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	11/01/2023
Sample Type:	Stack	Analysis start- End Date:	11/01/2023-13/01/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	35
Stack Attached To:	Zn Coating Machine FL-7	Stack gas velocity (m/sec):	5.38
Fuel Used:	-	Volume of Air Sampled in NM3:	1.1143

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM)	15.34	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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V7/06

Reporting Date: 19/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V7/06	Sampling Date:	10/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	13/01/2023
Sample Type:	Stack	Analysis start- End Date:	13/01/2023-18/01/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	36
Stack Attached To:	Zn Coating-6	Stack gas velocity (m/sec):	5.21
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0621

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM)	12.23	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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V9/05

Reporting Date: 23/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V9/05	Sampling Date:	13/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	16/01/2023
Sample Type:	Stack	Analysis start- End Date:	16/01/2023-21/01/2023
Stack Height & Dia (m):	30 & 0.5	Stack Temperature (°C):	42
Stack Attached To:	Mg Converter-2	Stack gas velocity (m/sec):	9.27
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8627

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM)	29.44	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
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V13/05

Reporting Date: 28/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V13/05	Sampling Date:	20/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/01/2023
Sample Type:	Stack	Analysis start- End Date:	23/01/2023-27/01/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	41
Stack Attached To:	Mg Treatment	Stack gas velocity (m/sec):	5.16
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0628

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	30.39	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

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Report Number: GGMP/L/P/J/22-23/51/V13/07

Reporting Date: 28/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V13/07	Sampling Date:	20/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/01/2023
Sample Type:	Stack	Analysis start- End Date:	23/01/2023-27/01/2023
Stack Height & Dia (m):	32 & 1.2	Stack Temperature (°C):	28
Stack Attached To:	Socket Cleaning	Stack gas velocity (m/sec):	5.07
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0492

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	35.83	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

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/P/J/22-23/51/V13/08

Reporting Date: 28/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V13/08	Sampling Date:	20/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/01/2023
Sample Type:	Stack	Analysis start- End Date:	23/01/2023-27/01/2023
Stack Height & Dia (m):	32 & 1.5	Stack Temperature (°C):	88
Stack Attached To:	Anneling Furnace-III	Stack gas velocity (m/sec):	6.05
Fuel Used:	BFG/LPG	Volume of Air Sampled in NM3:	1.0473

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	14.03	mg/Nm ³	IS 11255- Part 1	150
2	Sulphur Dioxides	16.0	ppm	GGMP/L/SOP/SEA/68	100
3	Oxides of Nitrogen	26.0	ppm	GGMP/L/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




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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V15/05

Reporting Date: 31/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V15/05	Sampling Date:	23/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/01/2023
Sample Type:	Stack	Analysis start- End Date:	25/01/2023-30/01/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	34
Stack Attached To:	Zn Coating-1	Stack gas velocity (m/sec):	5.33
Fuel Used:	-	Volume of Air Sampled in NM3:	1.1186

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	14.57	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




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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V18/05

Reporting Date: 01/02/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V18/05	Sampling Date:	27/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/01/2023
Sample Type:	Stack	Analysis start- End Date:	29/01/2023-01/02/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	34
Stack Attached To:	Pickling & Passivation	Stack gas velocity (m/sec):	8.21
Fuel Used:	-	Volume of Air Sampled in NM3:	0.7570

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	6.60	mg/Nm ³	IS 11255- Part 1	150
2	Oxides of Nitrogen	13.0	ppm	GGMPL/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/P/J/22-23/51/V18/05A

Reporting Date: 01/02/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V18/05	Sampling Date:	27/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/01/2023
Sample Type:	Stack	Analysis start- End Date:	29/01/2023-01/02/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	34
Stack Attached To:	Pickling & Passivation	Stack gas velocity (m/sec):	8.21
Fuel Used:	-	Volume of Air Sampled in NM3:	0.7570

Sr.No	Parameters*	Results	Unit	Test Method	Norms
1	Hydrogen Fluoride	1.25	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




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/P/J/22-23/51/V18/06

Reporting Date: 01/02/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V18/06	Sampling Date:	27/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/01/2023
Sample Type:	Stack	Analysis start- End Date:	29/01/2023-01/02/2023
Stack Height & Dia (m):	15	Stack Temperature (°C):	34
Stack Attached To:	Scrubber For Pilger	Stack gas velocity (m/sec):	5.92
Fuel Used:	-	Volume of Air Sampled in NM3:	1.2957

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	6.56	mg/Nm ³	IS 11255- Part 1	150
2	Oxides of Nitrogen	10.0	ppm	GGMP/L/SOP/SEA/68	25

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/P/J/22-23/51/V18/06A

Reporting Date: 01/02/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V18/06	Sampling Date:	27/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/01/2023
Sample Type:	Stack	Analysis start- End Date:	29/01/2023-01/02/2023
Stack Height & Dia (m):	15	Stack Temperature (°C):	34
Stack Attached To:	Scrubber For Pilger	Stack gas velocity (m/sec):	5.92
Fuel Used:	-	Volume of Air Sampled in NM3:	1.2957

Sr.No	Parameters*	Results	Unit	Test Method	Norms
1	Hydrogen Fluoride	1.23	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.

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/P/J/22-23/51/V20/04

Reporting Date: 03/02/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V20/04	Sampling Date:	30/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/02/2023
Sample Type:	Stack	Analysis start- End Date:	01/02/2023-03/02/2023
Stack Height & Dia (m):	32 & 1.5	Stack Temperature (°C):	85
Stack Attached To:	Annealing Furnace-I	Stack gas velocity (m/sec):	6.08
Fuel Used:	BFG/LPG	Volume of Air Sampled in NM3:	1.0951

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	5.29	mg/Nm ³	IS 11255- Part 1	150
2	Sulphur Dioxides	15.0	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	24.0	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: GGMP/L/P/J/22-23/51/V20/05

Reporting Date: 03/02/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V20/05	Sampling Date:	30/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/02/2023
Sample Type:	Stack	Analysis start- End Date:	01/02/2023-03/02/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	35
Stack Attached To:	Core Cleaning & Dusting	Stack gas velocity (m/sec):	5.35
Fuel Used:	-	Volume of Air Sampled in NM3:	1.1004

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	12.17	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




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Page No : 1/1

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**Bag House
Performance
Evaluation
Report**

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V12/04

Reporting Date: 27/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V12/04	Sampling Date:	19/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/01/2023
Sample Type:	Stack	Analysis start- End Date:	21/01/2023-25/01/2023
Stack Height & Dia (m):	40 & 1.5	Stack Temperature (°C):	35
Stack Attached To:	De-Dusting Stack-1	Stack gas velocity (m/sec):	9.36
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0691

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2236.24	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	10.20	mg/Nm ³	IS 11255- Part 1	100

STACK MONITORING Plant Name: 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




Authorized Signatory
Payal Patel

Page No : 1/1

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lab@gogreenmechanisms.com

www.gogreenmechanisms.com

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/ P/J/22-23/51/V12/04	De-Dusting Stack-1	99.5
Plant Name: Blast Furnace 1; GPCB ID: 18037/APCM –Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P. B. Patel
AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V10/06

Reporting Date: 25/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V10/06	Sampling Date:	16/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/01/2023
Sample Type:	Stack	Analysis start- End Date:	19/01/2023-24/01/2023
Stack Height & Dia (m):	40 & 1.5	Stack Temperature (°C):	36
Stack Attached To:	De-Dusting Stack-2	Stack gas velocity (m/sec):	12.29
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8656

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2293.20	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	22.14	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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Head Office & Lab

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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/P/J/22-23/51/V10/06	De-Dusting Stack-2	99.0
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: GGMP/L/P/J/22-23/51/V3/02

Reporting Date: 12/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V3/02	Sampling Date:	05/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/01/2023
Sample Type:	Stack	Analysis start- End Date:	07/01/2023-11/01/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	136
Stack Attached To:	Sinter Furnace-1	Stack gas velocity (m/sec):	17.27
Fuel Used:	BFG	Volume of Air Sampled in NM3:	1.1908

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	3285.69	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	48.91	mg/Nm ³	IS 11255- Part 1	150

STACK MONITORING Plant Name: Sinter Plant 1; GPCB ID : 35456 / APMC-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/P/J/22-23/51/V3/02	Sinter Furnace-1	98.5
Plant Name: Sinter Furnace-1; GPCB ID 35456 /APCM-ESP & Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P. B. P. K.

AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V11/03

Reporting Date: 24/01/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V11/03	Sampling Date:	17/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/01/2023
Sample Type:	Stack	Analysis start- End Date:	19/01/2023-23/01/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	143
Stack Attached To:	Sinter Furnace 2	Stack gas velocity (m/sec):	16.43
Fuel Used:	BFG	Volume of Air Sampled in NM3:	1.0987

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2176.48	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	34.42	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

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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/ P/J/22-23/51/V11/03	Sinter Furance-02	98.4
Plant Name: Sinter Plant-02; GPCB ID 29017 /APCM-ESP/Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P. B. Patel

AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/P/J/22-23/51/V2/02

Reporting Date: 10/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V2/02	Sampling Date:	04/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/01/2023
Sample Type:	Stack	Analysis start- End Date:	06/01/2023-09/01/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	49
Stack Attached To:	Mg Converter-1	Stack gas velocity (m/sec):	12.22
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0247

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2260.75	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	32.28	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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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/P/J/22-23/51/V2/02	Mg Converter-1	98.5
Plant Name: Pipe Plant; GPCB ID 18036 /APCM- Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P. B. A. S.

AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V6/02

Reporting Date: 16/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V6/02	Sampling Date:	09/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	11/01/2023
Sample Type:	Stack	Analysis start- End Date:	11/01/2023-13/01/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	36
Stack Attached To:	Zn Coating Machine FL-7	Stack gas velocity (m/sec):	9.99
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8857

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	3763.23	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	15.34	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/P/J/22-23/51/V6/02	Zinc Coating machine FL-7	99.6
Plant Name: Pipe Plant; GPCB ID 18036 /APCM –Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P. B. A. J.

AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V7/07

Reporting Date: 19/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V7/07	Sampling Date:	10/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	13/01/2023
Sample Type:	Stack	Analysis start- End Date:	13/01/2023-18/01/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	37
Stack Attached To:	Zn Coating-6	Stack gas velocity (m/sec):	9.92
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9116

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2897.65	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	12.23	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

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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/P/J/22-23/51/V7/06	Zinc Coating 6	99.4
Plant Name: Pipe Plant; GPCB ID 18036 /APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P. B. Patil
AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V9/06

Reporting Date: 23/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V9/06	Sampling Date:	13/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	16/01/2023
Sample Type:	Stack	Analysis start- End Date:	16/01/2023-21/01/2023
Stack Height & Dia (m):	30 & 0.5	Stack Temperature (°C):	44
Stack Attached To:	Mg Converter-2	Stack gas velocity (m/sec):	11.34
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9818

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2866.57	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	29.44	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

Ritu Shah
Analyzed By
Ritu Shah



P. B. Patel
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/P/J/22-23/51/V9/06	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/P/J/22-23/51/V13/06

Reporting Date: 28/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V13/06	Sampling Date:	20/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/01/2023
Sample Type:	Stack	Analysis start- End Date:	23/01/2023-27/01/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	43
Stack Attached To:	Mg Treatment	Stack gas velocity (m/sec):	10.47
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9281

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2366.98	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	30.39	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/ P/J/22-23/51/V13/06	Mg Treatment	98.7
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/P/J/22-23/51/V15/07

Reporting Date: 31/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V15/07	Sampling Date:	23/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/01/2023
Sample Type:	Stack	Analysis start- End Date:	25/01/2023-30/01/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	35
Stack Attached To:	Zn Coating-2	Stack gas velocity (m/sec):	5.21
Fuel Used:	-	Volume of Air-Sampled in NM3:	1.1077

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1517.64	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	18.61	mg/Nm ³	IS 11255- Part 1	20

STACK MONITORING Plant Name: Pipe Plant; GPCB ID : 18036 / APMC-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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Head Office & Lab

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+91-70690 72001

lab@gogreenmechanisms.com

www.gogreenmechanisms.com

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/ P/J/22-23/51/V15/07	Zinc Coating 2	98.8
Plant Name: Pipe Plant; GPCB ID 18036 / APCM - Bag Filter / Cyclone Separator			



GO GREEN MECHANISMS PVT. LTD.

P.B. PATEL
AUTHORIZED SIGNATORY

**Ambient Noise
Monitoring
Report**

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V5/03

Reporting Date: 16/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

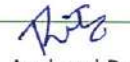
Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 07/01/2023
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/P/J/22-23/51/V5/03	Old Colony	Day Time	db(A)Leq	IS 9989	48.5	55
2	Lab/P/J/22-23/51/V5/03	Old Colony	Night Time	dB(A)Leq	IS 9989	40.1	45

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min:42.8 ,Max:52.8 Value in dB(A) Night Time: Min:37.7 ,Max:42.1

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/P/J/22-23/51/V6/03

Reporting Date: 16/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS


Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 09/01/2023
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/P/J/22-23/51/V6/03A	Spiral-2 Pipe Storage Yard	Day Time	db(A)Leq	IS 9989	64.68	75
2	Lab/P/J/22-23/51/V6/03B	Spiral-2 Pipe Storage Yard	Night Time	dB(A)Leq	IS 9989	55.15	70

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min:60.2 ,Max:71.4 Value in dB(A) Night Time: Min:50.1 ,Max:66.8

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/P/J/22-23/51/V10/07

Reporting Date: 25/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 16/01/2023
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/P/J/22-23/51/V10/07A	School Building	Day Time	db(A)Leq	IS 9989	52.3	55
2	Lab/P/J/22-23/51/V10/07B	School Building	Night Time	db(A)Leq	IS 9989	43.4	45

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min:47.3 ,Max:54.2 Value in dB(A) Night Time: Min:38.6 ,Max:44.2

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/P/J/22-23/51/V17/04

Reporting Date: 31/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 25/01/2023
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/P/J/22-23/51/V17/04A	Main Gate	Day Time	dB(A)Leq	IS 9989	62.79	75
2	Lab/P/J/22-23/51/V17/04B	Main Gate	Night Time	dB(A)Leq	IS 9989	54.25	70

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min:57.6 ,Max:65.4 Value in dB(A) Night Time: Min:45.8 ,Max:58.4

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/P/J/22-23/51/V19/04

Reporting Date: 01/02/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 28/01/2023
Sample Description: Ambient Noise

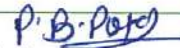
Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/P/J/22-23/51/V19/04	Vikaspuram	Day Time	db(A)Leq	IS 9989	51.4	55
2	Lab/P/J/22-23/51/V19/04	Vikaspuram	Night Time	dB(A)Leq	IS 9989	40.5	45

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min:42.2 ,Max:54.1 Value in dB(A) Night Time: Min:35.8 ,Max:43.6

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



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Payal Patel

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Workzone Noise Report

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V8/05

Reporting Date: 19/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS


Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 12/01/2023
Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/P/J/22-23/51/V8/05A	Control Room	Day Time	dB(A)Leq	IS 4758	58.2	85
2	Lab/P/J/22-23/51/V8/05B	BF Laboratory	Day Time	dB(A)Leq	IS 4758	54.3	85
3	Lab/P/J/22-23/51/V8/05C	CCP Control Room	Day Time	dB(A)Leq	IS 4758	57.4	85
4	Lab/P/J/22-23/51/V8/05D	Blower House	Day Time	dB(A)Leq	IS 4758	69.8	85

WORKZONE NOISE LEVEL MONITORING Plant Name: Blast Furnace-1; GPCB ID: 18037, Plant 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: GGMPL/P/J/22-23/51/V12/07

Reporting Date: 27/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 19/01/2023
Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/P/J/22-23/51/V12/07A	BF-2 Control Room	Day Time	dB(A)Leq	IS 4758	54.2	85
2	Lab/P/J/22-23/51/V12/07B	Blower House	Day Time	dB(A)Leq	IS 4758	74.8	85
3	Lab/P/J/22-23/51/V12/07C	Cast House	Day Time	dB(A)Leq	IS 4758	67.1	85
4	Lab/P/J/22-23/51/V12/07D	Stock House	Day Time	dB(A)Leq	IS 4758	62.7	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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V14/05

Reporting Date: 30/01/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 21/01/2023
Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/P/J/22-23/51/V14/05A	Sinter-1 Control Room	Day Time	dB(A)Leq	IS 4758	53.5	85
2	Lab/P/J/22-23/51/V14/05B	Machine Area	Day Time	dB(A)Leq	IS 4758	69.1	85
3	Lab/P/J/22-23/51/V14/05C	Nr.Flux Building	Day Time	dB(A)Leq	IS 4758	66.2	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: GGMPL/P/J/22-23/51/V20/06

Reporting Date: 03/02/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 30/01/2023
Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/P/J/22-23/51/V20/06A	Control Room	Day Time	dB(A)Leq	IS 4758	59.2	85
2	Lab/P/J/22-23/51/V20/06B	Sinter Machine Area	Day Time	dB(A)Leq	IS 4758	74.6	85
3	Lab/P/J/22-23/51/V20/06C	Nr.Proportional Building	Day Time	dB(A)Leq	IS 4758	64.5	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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V19/03

Reporting Date: 01/02/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

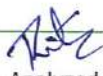
Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 28/01/2023
Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/P/J/22-23/51/V19/03A	DISP Annealing Furnace	Day Time	dB(A)Leq	IS 4758	62.7	85
2	Lab/P/J/22-23/51/V19/03B	SDP CCM Area	Day Time	dB(A)Leq	IS 4758	70.5	85
3	Lab/P/J/22-23/51/V19/03C	Mould Shop	Day Time	dB(A)Leq	IS 4758	73.9	85
4	Lab/P/J/22-23/51/V19/03D	Pickling & Passivation	Day Time	dB(A)Leq	IS 4758	65.2	85
5	Lab/P/J/22-23/51/V19/03E	ETP Area	Day Time	dB(A)Leq	IS 4758	68.6	85
6	Lab/P/J/22-23/51/V19/03F	Shot Blasting	Day Time	dB(A)Leq	IS 4758	64.5	85
7	Lab/P/J/22-23/51/V19/03G	FL-7 Office	Day Time	dB(A)Leq	IS 4758	56.3	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


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Form -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, Samaghoghha. (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 : 12.01.2023

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	2.29 mg/m ³ 3.09 mg/m ³	2.69 mg/m ³	40 mg/m ³	IS 5182 (Part-10)	3	-		Pankil
				2	2.48 mg/m ³ 2.51 mg/m ³	2.49 mg/m ³	10 mg/m ³	NIOSH-0600				
		2	68.4 dB 70.6 dB	69.5 dB	85 dB	IS 4758						



GO GREEN MECHANISMS PVT. LTD.




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.: **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 : 19.01.2023

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	2.38 mg/m ³ 2.19 mg/m ³	2.28 mg/m ³	10 mg/m ³	NIOSH-0600				
		2	71.5 dB 65.8 dB	68.65 dB	85 dB	IS 4758						



GO GREEN MECHANISMS PVT. LTD.



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 : 06.01.2023

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	2.66 mg/m ³ 3.16 mg/m ³	2.91 mg/m ³	40 mg/m ³	IS 5182 (Part-10)				
1	Sinter -1 First Floor	RSPM	Handy Sampler	2	2.34 mg/m ³ 2.85 mg/m ³	2.59 mg/m ³	10 mg/m ³	NIOSH-0600	4	-		Pankil
		Noise	Noise Meter	2	70.2 72.6	71.4 dB	85 dB	IS 4758				



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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 : 17.01.2023

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 2.86 mg/m ³	2.34 mg/m ³	40 mg/m ³	IS 5182 (Part-10)				
1	Sinter -2 First Floor	RSPM	Handy Sampler	2	1.97 mg/m ³ 2.89 mg/m ³	2.33 mg/m ³	10 mg/m ³	NIOSH-0600	4	-		Pankil
		Noise	Noise Meter	2	72.5 dB 68.4 dB	70.45 dB	85 dB	IS 4758				



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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. Hot Metal,Mg,Zn,ms Scrap,Cement etc & DI pipe
- 3 Particulars of sampling

Date of Sampling : 10.01.2023

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
		VOC	Low Volume Pump	2	5.2 mg/m ³ 5.7 mg/m ³	5.45 mg/m ³	40 mg/m ³	IS 5182 Part-11				
		RSPM	Handy Sampler	2	2.01 mg/m ³ 2.67 mg/m ³	2.34 mg/m ³	10 mg/m ³	NIOSH-0600	3		<i>[Signature]</i>	Pankil
		Noise	Noise Meter	2	70.1 dB 55.8 dB	62.95 dB	85 dB	IS 4758				



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[Signature]

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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, Samaghoghha. (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 : 21.01.2023

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	1.61 mg/m ³ 3.01 mg/m ³	2.31 mg/m ³	10 mg/m ³	NIOSH-0600	4	-		Pankil
				2	70.2 dB 68.3 dB	69.25 dB	85 dB					



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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. SS Plate,Saw Wire,Flux and SSL Saw Pipe
- 3 Particulars of sampling

Date of Sampling : 21.01.2023

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	Pickling and Passivation Area	RSPM	Handy Sampler	2	3.59 mg/m ³	2.96 mg/m ³	10 mg/m ³	NIOSH-0600	4			Pankil	
					2.34 mg/m ³								
		Noise	Noise Meter	2	70.8 dB	70.1 dB	85 dB	IS 4758	4				Pankil
					69.4 dB								
HF	Handy Sampler	2	BQL	BQL	BQL	2.5 mg/m ³	NIOSH-7903	4				Pankil	
			BQL										
HNO ₃	Handy Sampler	2	BQL	BQL	BQL	5 mg/m ³	NIOSH-7903	4				Pankil	
			BQL										



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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. Hot Metal,Mg,Zn,ms Scrap,Cement etc & DI pipe
- 3 Particulars of sampling

Date of Sampling : 28.01.2023

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 Bitumin Area	RSPM	Handy Sampler	2	2.55 mg/m ³ 2.03 mg/m ³	2.29 mg/m ³	10 mg/m ³	NIOSH-0600	4	-		Pankil
				2	68.2 dB 66.9 dB	67.55 dB	85 dB					
		2	VOC	Low Volume Pump	5.3 mg/m ³ 4.9 mg/m ³	5.10 mg/m ³	-	IS 5182 Part-11				



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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 : 28.01.2023

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	2.65 mg/m ³ 3.18 mg/m ³	2.91 mg/m ³	10 mg/m ³	NIOSH-0600	4	-		Pankil
		Noise	Noise Meter	2	70.1 dB 66.5 dB	68.3 dB	85 dB	IS 4758				

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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 : 31.01.2023

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	Remark	Signature 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	2.56 mg/m ³ 1.99 mg/m ³	2.27 mg/m ³	10 mg/m ³	NIOSH-0600	3	NIOSH-0600			
		Noise	Noise Meter	02	70.4 dB 69.2 dB	69.80 dB	85 dB	IS 4758		IS 4758			

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Wastewater Report

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V16/03

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date : 31/01/2023



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V16/03	Sampling Date:	24/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/01/2023
Sample Type:	Waste Water	Analysis Start Date:	25/01/2023
Sample Description:	ETP Outlet	Analysis End Date:	30/01/2023
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	7.40	-	IS 3025- Part 11	6.5 to 8.5
2	Temperature °C	25.0	°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	106.97	mg/L	APHA 23rd Edn 4500 SO4 E	1000
6	Fluoride	0.38	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	940.00	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	225.92	mg/L	IS 3025- Part 32	600
12	Chemical Oxygen Demand	50.00	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



Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/P/J/22-23/51/V16/03

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date : 31/01/2023



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V16/03	Sampling Date:	24/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/01/2023
Sample Type:	Waste Water	Analysis Start Date:	25/01/2023
Sample Description:	ETP Outlet	Analysis End Date:	30/01/2023
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	5.82	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	17.33	mg/L	IS 3025- Part 44	30
16	Sodium	0.011	%	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	1.78	-	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

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V16/02

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date : 01/02/2023



SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V16/02	Sampling Date:	24/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/01/2023
Sample Type:	Waste Water	Analysis Start Date:	25/01/2023
Sample Description:	STP Inlet	Analysis End Date:	31/01/2023
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	7.69	-	IS 3025- Part 11	-
2	Total Dissolved Solids	1092.00	mg/L	APHA 23rd Edn 2540 C	-
3	Total Suspended Solids	122.00	mg/L	APHA 23rd Edn 2540 D	-
4	Chemical Oxygen Demand	110.00	mg/L	APHA 23rd Edn 5220 B	-
5	BOD at 20°C – 5 Days	35.33	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


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Ritu Shah




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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/P/J/22-23/51/V16/01

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date : 01/02/2023



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V16/01	Sampling Date:	24/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/01/2023
Sample Type:	Waste Water	Analysis Start Date:	25/01/2023
Sample Description:	STP Outlet	Analysis End Date:	31/01/2023
Sample Quantity:	4 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.43	-	IS 3025- Part 11	6.5 to 8.5
2	Total Dissolved Solids	922.00	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	20.00	mg/L	APHA 23rd Edn 5220 B	50
5	Faecal Coliform	Absent	mpn/100mL	IS 1622	1000MPN/100ml
6	BOD at 20°C – 5 Days	5.33	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

Ritu Shah
Analyzed By
Ritu Shah



P. B. Patel
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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/P/J/22-23/51/V16/04

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date : 31/01/2023



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/P/J/22-23/51/V16/04	Sampling Date:	24/01/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/01/2023
Sample Type:	Waste Water	Analysis Start Date:	25/01/2023
Sample Description:	BF SGP	Analysis End Date:	30/01/2023
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	7.70	-	IS 3025- Part 11	6.5 to 8.5
2	Temperature °C	30.0	°C	APHA 23rd Edn 2550 B	40
3	Color	25.0	CU	IS 3025- Part 4	100
4	Sulphate	194.80	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	1014.00	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	315.90	mg/L	IS 3025- Part 32	600
10	Chemical Oxygen Demand	15.00	mg/L	APHA 23rd Edn 5220 B	100
11	Ammonical Nitrogen	2.46	mg/L	APHA 23rd Edn 4500 NH3 C	50
12	BOD at 27 o C for 3 days	6	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
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Page No : 1/1

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