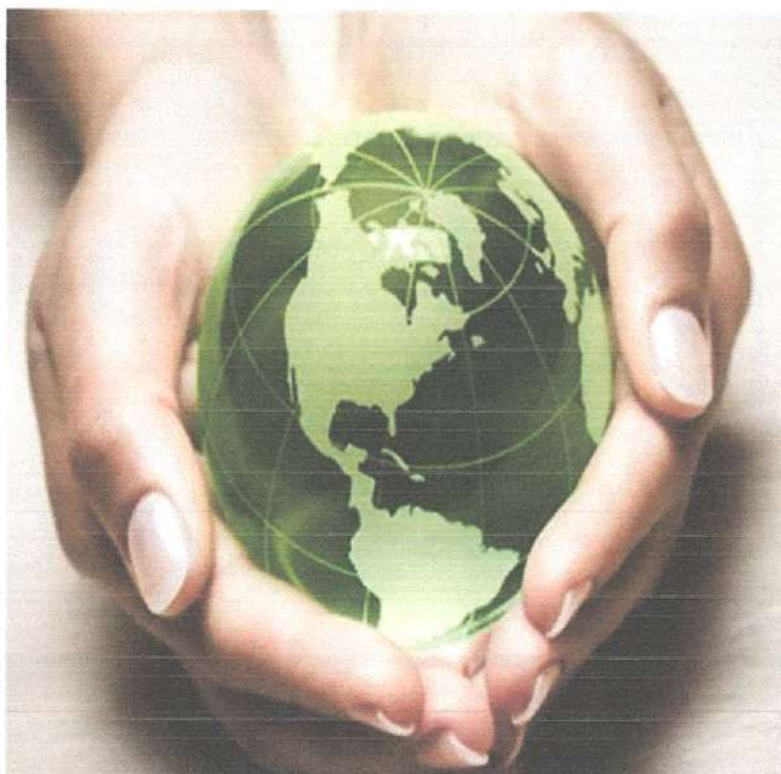


Report Issued to:

JINDAL SAW LIMITED

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

ENVIRONMENTAL MONTHLY MONITORING REPORT
MONTH OF AUG'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



CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/883C/51/V148/01

Reporting Date: 07/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/883C/51/V148/01	Sampling Start Date:	01/08/2023 (09:48AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/08/2023 (09:48AM)
Sample Type:	Ambient Air	Sample Receipt Date:	04/08/2023
Sample Description:	Old Colony	Analysis start- End Date:	04/08/2023-07/08/2023
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)	57.72	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	23.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.38	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.45	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL(QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	5.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH -AUGUST

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

P. Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/883C/51/V148/02

Reporting Date: 07/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/883C/51/V148/02	Sampling Start Date:	01/08/2023(10:04AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/08/2023(10:04AM)
Sample Type:	Ambient Air	Sample Receipt Date:	04/08/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	04/08/2023-07/08/2023
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)	56.16	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	22.50	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	8.65	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.48	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	5.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH -AUGUST

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

P. Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/883C/51/V148/03

Reporting Date: 07/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/883C/51/V148/03	Sampling Start Date:	01/08/2023(10:33AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/08/2023(10:33AM)
Sample Type:	Ambient Air	Sample Receipt Date:	04/08/2023
Sample Description:	STP	Analysis start- End Date:	04/08/2023-07/08/2023
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)	60.82	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)	11.68	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.81	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	5.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH -AUGUST

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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/883C/51/V148/04

Reporting Date: 07/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/883C/51/V148/04	Sampling Start Date:	01/08/2023(11:05AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/08/2023(11:05AM)
Sample Type:	Ambient Air	Sample Receipt Date:	04/08/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	04/08/2023-07/08/2023
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)	59.17	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)	10.90	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.72	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	5.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH -AUGUST

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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/921C/51/V151/01

Reporting Date: 09/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/921C/51/V151/01	Sampling Start Date:	04/08/2023(09:32 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023(09:32 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Old Colony	Analysis start- End Date:	07/08/2023-09/08/2023
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)	62.57	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.72	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.59	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.1	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

P. Parekh

Analyzed By
Pooja Parekh



P.B. Patel

Authorized Signatory
Payal Patel

Page No : 1/1

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Report Number : GGMPL/PN/921C/51/V151/02

Reporting Date: 09/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/921C/51/V151/02	Sampling Start Date:	04/08/2023(10:05 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023(10:05 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	07/08/2023-09/08/2023
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)	58.11	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.41	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.32	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.1	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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Report Number : GGMPL/PN/921C/51/V151/03

Reporting Date: 09/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/921C/51/V151/03	Sampling Start Date:	04/08/2023(10:40 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023(10:40 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	STP	Analysis start- End Date:	07/08/2023-09/08/2023
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)	61.19	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)	12.11	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.07	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.1	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/921C/51/V151/04

Reporting Date: 09/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/921C/51/V151/04	Sampling Start Date:	04/08/2023(11:11 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023(11:11 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	07/08/2023-09/08/2023
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)	56.69	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)	9.73	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.55	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.1	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/956C/51/V154/01

Reporting Date: 14/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/956C/51/V154/01	Sampling Start Date:	08/08/2023(09:28 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	09/08/2023(09:28 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	11/08/2023
Sample Description:	Old Colony	Analysis start- End Date:	11/08/2023-14/08/2023
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)	59.45	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.45	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.81	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	8.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Pooja Parekh

Analyzed By
Pooja Parekh

P. B. Patel

Authorized Signatory
Payal Patel



Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/956C/51/V154/02

Reporting Date: 14/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN/956C/51/V154/02	Sampling Start Date:	08/08/2023(10:04 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	09/08/2023(10:04 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	11/08/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	11/08/2023-14/08/2023
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)	57.68	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)	11.28	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.11	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	8.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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


Analyzed By
Pooja Parekh


Authorized Signatory
Payal Patel



Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/956C/51/V154/03

Reporting Date: 14/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN/956C/51/V154/03	Sampling Start Date:	08/08/2023(10:35 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	09/08/2023(10:35 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	11/08/2023
Sample Description:	STP	Analysis start- End Date:	11/08/2023-14/08/2023
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)	62.09	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)	11.67	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.50	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	8.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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


Analyzed By
Pooja Parekh




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/956C/51/V154/04

Reporting Date: 14/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/956C/51/V154/04	Sampling Start Date:	08/08/2023(11:08 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	09/08/2023(11:08 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	11/08/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	11/08/2023-14/08/2023
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)	58.79	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.51	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.83	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	8.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Pooja Parekh

Analyzed By
Pooja Parekh

P. B. Patel

Authorized Signatory
Payal Patel



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/975C/51/V155/01

Reporting Date: 17/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/975C/51/V155/01	Sampling Start Date:	11/08/2023(09:48 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/08/2023(09:48 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	14/08/2023
Sample Description:	Old Colony	Analysis start- End Date:	14/08/2023-16/08/2023
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)	63.43	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)	13.14	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.82	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	5.1	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Pooja Parekh
Analyzed By
Pooja Parekh



P.B. Patel
Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/975C/51/V155/02

Reporting Date: 17/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/975C/51/V155/02	Sampling Start Date:	11/08/2023(10:16 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/08/2023(10:16 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	14/08/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	14/08/2023-16/08/2023
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)	60.67	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.45	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.08	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	5.1	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Pooja Parekh

P. B. Patel

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Pooja Parekh



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/975C/51/V155/03

Reporting Date: 17/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN/975C/51/V155/03	Sampling Start Date:	11/08/2023(10:38 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/08/2023(10:38 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	14/08/2023
Sample Description:	STP	Analysis start- End Date:	14/08/2023-16/08/2023
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)	61.52	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)	10.38	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.07	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	5.1	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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


Analyzed By
Pooja Parekh


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Payal Patel



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/975C/51/V155/04

Reporting Date: 17/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/975C/51/V155/04	Sampling Start Date:	11/08/2023(11:09 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/08/2023(11:09 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	14/08/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	14/08/2023-16/08/2023
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)	64.12	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.67	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.57	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	5.1	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

P. Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1002C/51/V157/01

Reporting Date: 22/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1002C/51/V157/01	Sampling Start Date:	16/08/2023(09:28AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/08/2023(09:28 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	18/08/2023
Sample Description:	Old Colony	Analysis start- End Date:	18/08/2023-21/08/2023
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)	59.54	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.33	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	8.35	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	16.34	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	5.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

P. Parekh
Analyzed By
Pooja Parekh



P. B. Patel
Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1002C/51/V157/02

Reporting Date: 22/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1002C/51/V157/02	Sampling Start Date:	16/08/2023(09:50 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/08/2023(09:50 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	18/08/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	18/08/2023-21/08/2023
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)	53.64	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	25.00	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.43	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.08	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	5.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1002C/51/V157/03

Reporting Date: 22/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1002C/51/V157/03	Sampling Start Date:	16/08/2023(10:17 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/08/2023(10:17 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	18/08/2023
Sample Description:	STP	Analysis start- End Date:	18/08/2023-21/08/2023
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)	62.82	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)	10.13	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.32	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	5.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Analyzed By
Pooja Parekh



Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1002C/51/V157/04

Reporting Date: 22/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1002C/51/V157/04	Sampling Start Date:	16/08/2023(10:55 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/08/2023(10:55 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	18/08/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	18/08/2023-21/08/2023
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)	60.58	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.00	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.27	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	5.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1015C/01/51/V159/01

Reporting Date: 24/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1015C/01/51/V159/01	Sampling Start Date:	18/08/2023(09:50 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/08/2023(09:50 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	21/08/2023
Sample Description:	Old Colony	Analysis start- End Date:	21/08/2023-23/08/2023
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)	56.87	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)	9.02	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	14.36	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	7.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1015C/01/51/V159/02

Reporting Date: 24/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1015C/01/51/V159/02	Sampling Start Date:	18/08/2023(10:13 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/08/2023(10:13 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	21/08/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	21/08/2023-23/08/2023
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)	55.81	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.08	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.15	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.32	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	7.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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Report Number : GGMPL/PN/1015C/01/51/V159/03

Reporting Date: 24/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN/1015C/01/51/V159/03	Sampling Start Date:	18/08/2023(10:32 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/08/2023(10:32 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	21/08/2023
Sample Description:	STP	Analysis start- End Date:	21/08/2023-23/08/2023
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)	57.35	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.56	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	8.68	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	15.60	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	7.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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


Analyzed By
Pooja Parekh




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1015C/01/51/V159/04

Reporting Date: 24/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN/1015C/01/51/V159/04	Sampling Start Date:	18/08/2023(11:04 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/08/2023(11:04 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	21/08/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	21/08/2023-23/08/2023
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)	57.36	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)	10.93	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.11	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	7.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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


Analyzed By
Pooja Parekh


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Payal Patel



Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1042C/51/V161/01

Reporting Date: 26/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1042C/51/V161/01	Sampling Start Date:	21/08/2023(09:43 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/08/2023(09:43 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/08/2023
Sample Description:	Old Colony	Analysis start- End Date:	23/08/2023-26/08/2023
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)	61.74	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	8.68	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.84	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	4.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

P. Parekh
Analyzed By
Pooja Parekh



P. B. Patel
Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1042C/51/V161/02

Reporting Date: 26/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1042C/51/V161/02	Sampling Start Date:	21/08/2023(10:05 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/08/2023(10:05 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/08/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	23/08/2023-26/08/2023
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)	58.55	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)	9.76	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.16	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

P. Parekh

Analyzed By
Pooja Parekh

P. Patel

Authorized Signatory
Payal Patel



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1042C/51/V161/03

Reporting Date: 26/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1042C/51/V161/03	Sampling Start Date:	21/08/2023(10:29 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/08/2023(10:29 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/08/2023
Sample Description:	STP	Analysis start- End Date:	23/08/2023-26/08/2023
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)	60.44	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	8.33	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.58	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	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

P. Parekh

Analyzed By
Pooja Parekh

P. B. Patel

Authorized Signatory
Payal Patel



Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/1042C/51/V161/04

Reporting Date: 26/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1042C/51/V161/04	Sampling Start Date:	21/08/2023(11:03 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/08/2023(11:03 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/08/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	23/08/2023-26/08/2023
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)	57.20	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)	9.37	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.44	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Analyzed By
Pooja Parekh



Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1075C/51/V165/01

Reporting Date: 31/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN/1075C/51/V165/01	Sampling Start Date:	25/08/2023(09:33 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/08/2023(09:33 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	27/08/2023
Sample Description:	Old Colony	Analysis start- End Date:	28/08/2023-31/08/2023
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)	57.86	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)	9.40	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	14.86	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	8.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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


Analyzed By
Pooja Parekh




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1075C/51/V165/02

Reporting Date: 31/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1075C/51/V165/02	Sampling Start Date:	25/08/2023(09:58 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/08/2023(09:58 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	27/08/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	28/08/2023-31/08/2023
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)	56.72	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.45	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.35	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	8.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

P. Parekh

Analyzed By
Pooja Parekh

P. B. Patel

Authorized Signatory
Payal Patel



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1075C/51/V165/03

Reporting Date: 31/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1075C/51/V165/03	Sampling Start Date:	25/08/2023(10:26 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/08/2023(10:26 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	27/08/2023
Sample Description:	STP	Analysis start- End Date:	28/08/2023-31/08/2023
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)	57.09	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	8.70	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	15.11	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	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	8.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Pooja Parekh

Analyzed By
Pooja Parekh

P. B. Patel

Authorized Signatory
Payal Patel



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1075C/51/V165/04

Reporting Date: 31/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1075C/51/V165/04	Sampling Start Date:	25/08/2023(10:49 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/08/2023(10:49 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	27/08/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	28/08/2023-31/08/2023
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)	58.31	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)	11.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.39	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	8.8	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Pooja Parekh

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Authorized Signatory
Payal Patel



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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/1091C/51/V167/01

Reporting Date: 02/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1091C/51/V167/01	Sampling Start Date:	28/08/2023(09:48 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/08/2023(09:48 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	31/08/2023
Sample Description:	Old Colony	Analysis start- End Date:	31/08/2023-02/09/2023
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)	28.74	µg/m3	GGMP/L/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.05	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.60	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMP/L/SOP/MP/01	NS
7	Average Wind Speed	6.4	Km/Hrs	GGMP/L/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1091C/51/V167/02

Reporting Date: 02/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

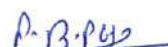
Lab ID:	Lab/PN/1091C/51/V167/02	Sampling Start Date:	28/08/2023(10:03 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/08/2023(10:03 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	31/08/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	31/08/2023-02/09/2023
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)	57.36	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)	8.62	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	14.76	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	6.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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


Analyzed By
Pooja Parekh


Authorized Signatory
Payal Patel



Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/1091C/51/V167/03

Reporting Date: 02/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1091C/51/V167/03	Sampling Start Date:	28/08/2023(10:38 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/08/2023(10:38 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	31/08/2023
Sample Description:	STP	Analysis start- End Date:	31/08/2023-02/09/2023
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)	58.77	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.58	µg/m3	GGMP/L/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.75	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.34	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	NW	Direction	GGMP/L/SOP/MP/01	NS
7	Average Wind Speed	6.4	Km/Hrs	GGMP/L/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

P. Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1091C/51/V167/04

Reporting Date: 02/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1091C/51/V167/04	Sampling Start Date:	28/08/2023(11:05 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/08/2023(11:05 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	31/08/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	31/08/2023-02/09/2023
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)	60.62	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.97	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.27	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	6.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-AUGUST

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

P. Parekh

Analyzed By
Pooja Parekh

P. B. Patel

Authorized Signatory
Payal Patel



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**Fugitive
Monitoring
Report**

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/984C/51/V156/04

Reporting Date: 18/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/984C/51/V156/04	Sampling Start Date:	12/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/08/2023
Sample Type:	Fugitive	Sample Receipt Date:	14/08/2023
Sample Description:	BF 1 Ground Hopper	Analysis start- End Date:	14/07/2023-17/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	8
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	25.26	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	16.60	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)	1708.32	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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1033C/51/V160/03

Reporting Date: 24/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1033C/51/V160/03	Sampling Start Date:	19/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/08/2023
Sample Type:	Fugitive	Sample Receipt Date:	21/08/2023
Sample Description:	BF 1 De Dusting	Analysis start- End Date:	21/08/2023-23/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	8
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	21.54	µg/m3	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	10.45	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)	2162.96	µg/m3	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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/984C/51/V156/03

Reporting Date: 18/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN/984C/51/V156/03	Sampling Start Date:	12/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/08/2023
Sample Type:	Fugitive	Sample Receipt Date:	14/08/2023
Sample Description:	BF 2 De Dusting	Analysis start- End Date:	14/08/2023-17/08/2023
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	24.52	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	13.49	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)	2056.57	µg/m ³	IS 5182 (part 4)	3000

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

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


Analyzed By
Pooja Parekh




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1106C/51/V169/01

Reporting Date: 02/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1106C/51/V169/01	Sampling Start Date:	30/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/08/2023
Sample Type:	Fugitive	Sample Receipt Date:	01/09/2023
Sample Description:	Sinter RMH Yard	Analysis start- End Date:	01/09/2023-02/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	8
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	22.29	µg/m3	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	16.71	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)	2052.91	µg/m3	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

Pooja Parekh

Analyzed By
Pooja Parekh

P. B. Patel

Authorized Signatory
Payal Patel



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Report Number : GGMPL/PN/1101C/51/V168/01

Reporting Date: 02/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN/1101C/51/V168/01	Sampling Start Date:	29/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/08/2023
Sample Type:	Fugitive	Sample Receipt Date:	31/08/2023
Sample Description:	Sinter 02 Ground Hopper	Analysis start- End Date:	31/08/2023-02/09/2023
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	19.32	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	10.41	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)	1715.19	µg/m ³	IS 5182 (part 4)	3000

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

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


Analyzed By
Pooja Parekh




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/928C/51/V152/03

Reporting Date: 09/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415




SAMPLE DETAILS

Lab ID:	Lab/PN/928C/51/V152/03	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Fugitive	Sample Receipt Date:	07/08/2023
Sample Description:	SDP-2 Induction	Analysis start- End Date:	07/08/2023-09/08/2023
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	23.03	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	13.49	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)	1113.49	µg/m ³	IS 5182 (part 4)	3000

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

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


Analyzed By
Pooja Parekh




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1106C/51/V169/02

Reporting Date: 02/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1106C/51/V169/02	Sampling Start Date:	30/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/08/2023
Sample Type:	Fugitive	Sample Receipt Date:	01/09/2023
Sample Description:	SDP 2 CCM Area	Analysis start- End Date:	01/09/2023-02/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	8
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	21.54	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	11.49	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)	1804.86	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

P. Parekh
Analyzed By
Pooja Parekh



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Payal Patel

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Stack Monitoring Report

CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1101C/51/V168/02

Reporting Date: 02/09/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1101C/51/V168/02	Sampling Date:	29/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/08/2023
Sample Type:	Stack	Analysis start- End Date:	31/08/2023-02/09/2023
Stack Height & Dia (m):	45 & 1.4	Stack Temperature (°C):	152
Stack Attached To:	Boiler I	Stack gas velocity (m/sec):	6.41
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.919

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	2.94	mg/Nm ³	IS 11255- Part 1	150
2	Oxides of Nitrogen	13.16	mg/Nm ³	GGMP/L/SOP/SEA/68	25
3	Sulphur Dioxide	7.85	mg/Nm ³	GGMP/L/SOP/SEA/68	40

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

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

P. Parekh

Analyzed By
Pooja Parekh



P. Patel

Authorized Signatory
Payal Patel

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Report Number: GGMP/ PN/1101C/51/V168/03

Reporting Date: 02/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1101C/51/V168/03	Sampling Date:	29/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/08/2023
Sample Type:	Stack	Analysis start- End Date:	31/08/2023-02/09/2023
Stack Height & Dia (m):	45 & 1.4	Stack Temperature (°C):	147
Stack Attached To:	Boiler II	Stack gas velocity (m/sec):	6.65
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.963

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	3.12	mg/Nm ³	IS 11255- Part 1	150
2	Oxides of Nitrogen	15.04	mg/Nm ³	GGMPL/SOP/SEA/68	25
3	Sulphur Dioxide	10.47	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

P. Parekh

Analyzed By
Pooja Parekh



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Report Number: GGMPL/PN/1107C/51/V170/03

Reporting Date: 02/09/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1107C/51/V170/03	Sampling Date:	31/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/09/2023
Sample Type:	Stack	Analysis start- End Date:	01/09/2023-02/09/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	40
Stack Attached To:	Coke Fine Building DCS	Stack gas velocity (m/sec):	5.56
Fuel Used:	-	Volume of Air Sampled in NM3:	1.116

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	27.25	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

Pooja Parekh

P. B. Patel

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Report Number: GGMPL/PN/1107C/51/V170/03

Reporting Date: 02/09/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1107C/51/V170/03	Sampling Date:	31/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/09/2023
Sample Type:	Stack	Analysis start- End Date:	01/09/2023-02/09/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	40
Stack Attached To:	Coke Fine Building DCS	Stack gas velocity (m/sec):	5.56
Fuel Used:	-	Volume of Air Sampled in NM3:	1.116

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	27.25	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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Report Number: GGMP/ PN/947C/51/V153/02

Reporting Date: 12/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/947C/51/V153/02	Sampling Date:	07/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	09/08/2023
Sample Type:	Stack	Analysis start- End Date:	09/08/2023-12/08/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	125
Stack Attached To:	Sinter Furnace 1	Stack gas velocity (m/sec):	11.23
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.782

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	32.74	mg/Nm ³	IS 11255- Part 1	150
2	Sulphur Dioxides	5	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	13	ppm	GGMPL/SOP/SEA/68	50

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

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

Pooja Parekh

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Report Number: GGMPL/PN/921C/51/V151/05

Reporting Date: 09/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/921C/51/V151/05	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Stack	Analysis start- End Date:	07/08/2023-09/08/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	130
Stack Attached To:	Sinter Furnace 2	Stack gas velocity (m/sec):	11.38
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.800

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	29.49	mg/Nm ³	IS 11255- Part 1	150
2	Sulphur Dioxides	6.0	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	11.0	ppm	GGMPL/SOP/SEA/68	50

Stack Monitoring Plant Name: Sinter Plant 2; GPCB ID: 29017 / APCM-ESP/Bag Filter

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

P. Parekh

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Pooja Parekh



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Report Number: GGMPL/PN/1045C/51/V162/02

Reporting Date: 26/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1045C/51/V162/02	Sampling Date:	22/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/08/2023
Sample Type:	Stack	Analysis start- End Date:	24/08/2023-26/08/2023
Stack Height & Dia (m):	30 & 0.8	Stack Temperature (°C):	40
Stack Attached To:	Secondary Mixture Drum	Stack gas velocity (m/sec):	3.76
Fuel Used:	-	Volume of Air Sampled in NM3:	0.746

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	33.38	mg/Nm ³	IS 11255- Part 1	150

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

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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/1045C/51/V162/03

Reporting Date: 26/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1045C/51/V162/03	Sampling Date:	22/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/08/2023
Sample Type:	Stack	Analysis start- End Date:	24/08/2023-26/08/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	34
Stack Attached To:	Flux Crusher De Dusting System	Stack gas velocity (m/sec):	4.63
Fuel Used:	-	Volume of Air Sampled in NM3:	0.919

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	24.82	mg/Nm ³	IS 11255- Part 1	150

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

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

P. Parekh

Analyzed By
Pooja Parekh



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1045C/51/V162/04

Reporting Date: 26/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1045C/51/V162/04	Sampling Date:	22/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/08/2023
Sample Type:	Stack	Analysis start- End Date:	24/08/2023-26/08/2023
Stack Height & Dia (m):	30 & 1.0	Stack Temperature (°C):	36
Stack Attached To:	Flux Screening De Dusting System	Stack gas velocity (m/sec):	5.52
Fuel Used:	-	Volume of Air Sampled in NM3:	1.112

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	25.36	mg/Nm ³	IS 11255- Part 1	150

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

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

P. Parekh



P. B. Patel

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Pooja Parekh

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/956C/51/V154/05

Reporting Date: 14/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/956C/51/V154/05	Sampling Date:	08/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	11/08/2023
Sample Type:	Stack	Analysis start- End Date:	11/08/2023-14/08/2023
Stack Height & Dia (m):	30 & 1.0	Stack Temperature (°C):	36
Stack Attached To:	Core Shop 2	Stack gas velocity (m/sec):	4.72
Fuel Used:	-	Volume of Air Sampled in NM3:	0.945

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	14.71	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

Pooja Parekh

P. B. Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/956C/51/V154/07

Reporting Date: 14/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/956C/51/V154/07	Sampling Date:	08/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	11/08/2023
Sample Type:	Stack	Analysis start- End Date:	11/08/2023-14/08/2023
Stack Height & Dia (m):	30 & 1.0	Stack Temperature (°C):	87
Stack Attached To:	Sand Reclamation	Stack gas velocity (m/sec):	6.24
Fuel Used:	-	Volume of Air Sampled in NM3:	1.068

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	24.16	mg/Nm ³	IS 11255- Part 1	150

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

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

Pooja Parekh

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1006C/51/V158/01

Reporting Date: 22/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1006C/51/V158/01	Sampling Date:	17/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2023
Sample Type:	Stack	Analysis start- End Date:	19/08/2023-21/08/2023
Stack Height & Dia (m):	30 & 0.5	Stack Temperature (°C):	42
Stack Attached To:	Shot Blasting	Stack gas velocity (m/sec):	7.70
Fuel Used:	-	Volume of Air Sampled in NM3:	0.701

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	28.83	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

P. Parekh



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1055C/51/V163/01

Reporting Date: 29/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1055C/51/V163/01	Sampling Date:	23/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/08/2023
Sample Type:	Stack	Analysis start- End Date:	25/08/2023-28/08/2023
Stack Height & Dia (m):	30 & 1.0	Stack Temperature (°C):	41
Stack Attached To:	Mg Treatment	Stack gas velocity (m/sec):	5.36
Fuel Used:	-	Volume of Air Sampled in NM3:	1.102

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	28.21	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

P. Parekh



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1055C/51/V163/03

Reporting Date: 29/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1055C/51/V163/03	Sampling Date:	23/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/08/2023
Sample Type:	Stack	Analysis start- End Date:	25/08/2023-28/08/2023
Stack Height & Dia (m):	45 & 1.5	Stack Temperature (°C):	107
Stack Attached To:	Annealing Furnace-III	Stack gas velocity (m/sec):	6.27
Fuel Used:	BFG/LPG	Volume of Air Sampled in NM3:	1.016

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	11.41	mg/Nm ³	IS 11255- Part 1	150
2	Sulphur Dioxides	10.0	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	22.0	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

Pooja Parekh

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Pooja Parekh



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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/1055C/51/V163/04

Reporting Date: 29/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1055C/51/V163/04	Sampling Date:	23/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/08/2023
Sample Type:	Stack	Analysis start- End Date:	25/08/2023-28/08/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	38
Stack Attached To:	Socket Cleaning	Stack gas velocity (m/sec):	4.52
Fuel Used:	-	Volume of Air Sampled in NM3:	0.943

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	26.84	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

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/1075C/51/V165/07

Reporting Date: 31/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1075C/51/V165/07	Sampling Date:	25/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/08/2023
Sample Type:	Stack	Analysis start- End Date:	28/08/2023-31/08/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	36
Stack Attached To:	Tri Grinding Section	Stack gas velocity (m/sec):	4.81
Fuel Used:	-	Volume of Air Sampled in NM3:	1.101

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	25.15	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

P. Parekh

Analyzed By
Pooja Parekh



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1064C/51/V164/08

Reporting Date: 31/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1064C/51/V164/08	Sampling Date:	24/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/08/2023
Sample Type:	Stack	Analysis start- End Date:	26/08/2023-29/08/2023
Stack Height & Dia (m):	32 & 1.5	Stack Temperature (°C):	117
Stack Attached To:	Annealing Furnace I	Stack gas velocity (m/sec):	6.65
Fuel Used:	BFG/LPG	Volume of Air Sampled in NM3:	1.061

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	10.46	mg/Nm ³	IS 11255- Part 1	150
2	Sulphur Dioxides	11.0	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	19.0	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

P. Parekh

P. B. Patel

Analyzed By
Pooja Parekh



Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/1107C/51/V170/02

Reporting Date: 02/09/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1107C/51/V170/02	Sampling Date:	31/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/09/2023
Sample Type:	Stack	Analysis start- End Date:	01/09/2023-02/09/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	34
Stack Attached To:	Scrubber For Pilger	Stack gas velocity (m/sec):	5.18
Fuel Used:	-	Volume of Air Sampled in NM3:	1.045

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	7.08	mg/Nm ³	IS 11255- Part 1	150
2	Oxides of Nitrogen	8.0	ppm	GGMP/ SOP/SEA/68	25

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

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

P. Parekh

Analyzed By
Pooja Parekh



P.B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1107C/51/V170/02A

Reporting Date: 02/09/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415

SAMPLE DETAILS

Lab ID:	Lab/PN/1107C/51/V170/02	Sampling Date:	31/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/09/2023
Sample Type:	Stack	Analysis start- End Date:	01/09/2023-02/09/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	34
Stack Attached To:	Scrubber For Pilger	Stack gas velocity (m/sec):	5.18
Fuel Used:	-	Volume of Air Sampled in NM3:	1.045

Sr.No	Parameters*	Results	Unit	Test Method	Norms
1	Hydrogen Fluoride	1.29	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

P. Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1106C/51/V169/04

Reporting Date: 02/09/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1106C/51/V169/04	Sampling Date:	30/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/09/2023
Sample Type:	Stack	Analysis start- End Date:	01/09/2023-02/09/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	35
Stack Attached To:	Zn Coating 1	Stack gas velocity (m/sec):	5.13
Fuel Used:	-	Volume of Air Sampled in NM3:	1.053

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	15.11	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

P. Parekh



P. B. Patel

Analyzed By
Pooja Parekh

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Payal Patel

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Report Number: GGMPL/PN/1106C/51/V169/05

Reporting Date: 02/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1106C/51/V169/05	Sampling Date:	30/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/09/2023
Sample Type:	Stack	Analysis start- End Date:	01/09/2023-02/09/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	36
Stack Attached To:	Zn Coating 2	Stack gas velocity (m/sec):	4.58
Fuel Used:	-	Volume of Air Sampled in NM3:	0.949

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	17.08	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

P. Parekh

Analyzed By
Pooja Parekh



P. B. Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1106C/51/V169/07

Reporting Date: 02/09/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1106C/51/V169/07	Sampling Date:	30/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/09/2023
Sample Type:	Stack	Analysis start- End Date:	01/09/2023-02/09/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	36
Stack Attached To:	Zn Coating 3	Stack gas velocity (m/sec):	5.14
Fuel Used:	-	Volume of Air Sampled in NM3:	1.084

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	17.71	mg/Nm ³	IS 11255- Part 1	20

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

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

P. Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1107C/51/V170/02

Reporting Date: 02/09/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1107C/51/V170/02	Sampling Date:	31/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/09/2023
Sample Type:	Stack	Analysis start- End Date:	01/09/2023-02/09/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	34
Stack Attached To:	Scrubber For Pilger	Stack gas velocity (m/sec):	5.18
Fuel Used:	-	Volume of Air Sampled in NM3:	1.045

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	7.08	mg/Nm ³	IS 11255- Part 1	150
2	Oxides of Nitrogen	8.0	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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1107C/51/V170/02A

Reporting Date: 02/09/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415

SAMPLE DETAILS

Lab ID:	Lab/PN/1107C/51/V170/02	Sampling Date:	31/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/09/2023
Sample Type:	Stack	Analysis start- End Date:	01/09/2023-02/09/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	34
Stack Attached To:	Scrubber For Pilger	Stack gas velocity (m/sec):	5.18
Fuel Used:	-	Volume of Air Sampled in NM3:	1.045

Sr.No	Parameters*	Results	Unit	Test Method	Norms
1	Hydrogen Fluoride	1.29	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

Pooja Parekh

Analyzed By
Pooja Parekh



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**Bag House
Performance
Evaluation
Report**

CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/883C/51/V148/06

Reporting Date: 07/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/883C/51/V148/06	Sampling Date:	01/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/08/2023
Sample Type:	Stack	Analysis start- End Date:	04/08/2023-07/08/2023
Stack Height & Dia (m):	35 & 1.5	Stack Temperature (°C):	38
Stack Attached To:	De Dusting Stack-1	Stack gas velocity (m/sec):	10.80
Fuel Used:	-	Volume of Air Sampled in NM3:	0.992

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1931.16	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	7.67	mg/Nm ³	IS 11255- Part 1	100

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

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

P. Parekh

P. B. Patel

Analyzed By
Pooja Parekh



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/PN883C/51/V148/06	De-dusting Stack-1	99.6
Plant Name: Blast Furnace -1; GPCB ID: 18037 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P.B. Patil
AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/900C/51/V150/02

Reporting Date: 07/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/900C/51/V150/02	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/08/2023
Sample Type:	Stack	Analysis start- End Date:	04/08/2023-07/08/2023
Stack Height & Dia (m):	40 & 1.5	Stack Temperature (°C):	38
Stack Attached To:	De Dusting Stack-2	Stack gas velocity (m/sec):	11.12
Fuel Used:	-	Volume of Air Sampled in NM3:	0.986

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2601.66	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	27.46	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

Pooja Parekh

P. B. Patel

Analyzed By
Pooja Parekh



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/PN900C/51/V150/02	De-Dusting Stack-2	98.9
Plant Name: Blast Furnace 2; GPCB ID: 29026 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT.

P. B. A.
AUTHORIZED SIGNATURE

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/947C/51/V153/03

Reporting Date: 12/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/947C/51/V153/03	Sampling Date:	07/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	09/08/2023
Sample Type:	Stack	Analysis start- End Date:	09/08/2023-12/08/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	130
Stack Attached To:	Sinter Furnace 1	Stack gas velocity (m/sec):	17.05
Fuel Used:	BFG	Volume of Air Sampled in NM3:	1.173

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	3455.85	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	32.74	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

Pooja Parekh

P. B. Patel

Analyzed By
Pooja Parekh



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/PN947C/51/V153/03	Sinter Furnace-1	99.1
Plant Name: Sinter Furnace-1; GPCB ID: 35456 / APCM-ESP/Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P. B. Puri

AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/921C/51/V151/06

Reporting Date: 09/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/921C/51/V151/06	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Stack	Analysis start- End Date:	07/08/2023-09/08/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	135
Stack Attached To:	Sinter Furnace 2	Stack gas velocity (m/sec):	16.44
Fuel Used:	BFG	Volume of Air Sampled in NM3:	1.125

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1815.68	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	29.49	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

P. Parekh

P. B. Patel

Analyzed By
Pooja Parekh



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/PN921C/51/V151/06	Sinter Furnace 2	98.4

Plant Name: Sinter Plant 2; GPCB ID: 29017 / APCM-Bag Filter



GO GREEN MECHANISMS PVT. LTD.

P. B. Patil
AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN896C/51/V149/02

Reporting Date: 07/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN896C/51/V149/02	Sampling Date:	02/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/08/2023
Sample Type:	Stack	Analysis start- End Date:	03/08/2023-07/08/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	38
Stack Attached To:	Zn Coating Machine FL-7	Stack gas velocity (m/sec):	10.04
Fuel Used:	-	Volume of Air Sampled in NM3:	0.873

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	3153.22	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	15.75	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

P. Parekh

Analyzed By
Pooja Parekh



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/PN896C/51/V119/02	Zn Coating-7	99.5
Plant Name: Pipe Plant; GPCB ID: 18036 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P. B. Jay
AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/975C/51/V155/06

Reporting Date: 17/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/975C/51/V155/06	Sampling Date:	11/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/08/2023
Sample Type:	Stack	Analysis start- End Date:	14/08/2023-16/08/2023
Stack Height & Dia (m):	30 & 0.5	Stack Temperature (°C):	46
Stack Attached To:	Mg Converter 2	Stack gas velocity (m/sec):	10.50
Fuel Used:	-	Volume of Air Sampled in NM3:	0.925

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2815.51	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	26.83	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

P. Parekh

P. B. Patel

Analyzed By
Pooja Parekh



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/PN/1075C/51/V165/06	Zn Coating-6	99.2
Plant Name: Pipe Plant; GPCB ID: 18036 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.
P. B. Patil
AUTHORIZED SIGNATOR

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1055C/51/V163/02

Reporting Date: 29/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1055C/51/V163/02	Sampling Date:	23/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/08/2023
Sample Type:	Stack	Analysis start- End Date:	25/08/2023-28/08/2023
Stack Height & Dia (m):	30 & 1.0	Stack Temperature (°C):	43
Stack Attached To:	Mg Treatment	Stack gas velocity (m/sec):	10.06
Fuel Used:	-	Volume of Air Sampled in NM3:	0.885

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2424.07	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	28.21	mg/Nm ³	IS 11255- Part 1	50

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

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

Pooja Parekh

P.B. Patel

Analyzed By
Pooja Parekh



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/PN1055C/51/V163/02	Mg Treatment	98.8
Plant Name: Pipe Plant; GPCB ID: 18036 / APMC-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P. B. Patel

AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/1064C/51/V164/07

Reporting Date: 31/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1064C/51/V164/07	Sampling Date:	24/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/08/2023
Sample Type:	Stack	Analysis start- End Date:	26/08/2023-29/08/2023
Stack Height & Dia (m):	30 & 1.0	Stack Temperature (°C):	65
Stack Attached To:	Mg Converter 1	Stack gas velocity (m/sec):	12.67
Fuel Used:	-	Volume of Air Sampled in NM3:	1.051

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1892.39	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	23.87	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

[Signature]

[Signature]

Analyzed By
Pooja Parekh



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/PN/1064C/51/V164/07	Mg Converter-1	98.7
Plant Name: Pipe Plant; GPCB ID: 18036 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P. B. R.

AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1075C/51/V165/06

Reporting Date: 31/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1075C/51/V165/06	Sampling Date:	25/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/08/2023
Sample Type:	Stack	Analysis start- End Date:	28/08/2023-31/08/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	39
Stack Attached To:	Zn Coating 6	Stack gas velocity (m/sec):	10.07
Fuel Used:	-	Volume of Air Sampled in NM3:	0.879

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2063.69	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	16.41	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

P. Parekh

P. B. Patel

Analyzed By
Pooja Parekh



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/PN/1075C/51/V165/06	Zn Coating-6	99.2
Plant Name: Pipe Plant; GPCB ID: 18036 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

P. B. Puj

AUTHORIZED SIGNATORY

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1106C/51/V169/06

Reporting Date: 02/09/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Lab ID:	Lab/PN/1106C/51/V169/06	Sampling Date:	30/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/09/2023
Sample Type:	Stack	Analysis start- End Date:	01/09/2023-02/09/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	37
Stack Attached To:	Zn Coating 2	Stack gas velocity (m/sec):	9.82
Fuel Used:	-	Volume of Air Sampled in NM3:	0.873

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1796.24	mg/Nm ³	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	17.08	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

Pooja Parekh

P. B. Patel

Analyzed By
Pooja Parekh



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/PN/1106C/51/V169/06	Zn Coating-2	99.0

Plant Name: Pipe Plant; GPCB ID: 18036 / APMC-Bag Filter/ Cyclone separator.



GO GREEN MECHANISMS PVT. LTD.

P-B. P. P.

AUTHORIZED SIGNATORY

Ambient Noise Monitoring Report

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/928C/51/V152/04

Reporting Date: 09/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory representative

Sampling Date: 05/08/2023
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/928C/51/V152/04	Old Colony	Day Time	db(A)Leq	IS 9989	49.1	55
2	Lab/PN/928C/51/V152/04	Old Colony	Night time	db(A)Leq	IS 9989	41.5	45

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min: 42.8, Max: 53.0 Value in dB(A) Night Time: Min: 38.7, Max: 44.7

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

P. Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/947C/51/V153/04

Reporting Date: 12/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 07/08/2023

Sample By Laboratory representative

Sample Description:

Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/947C/51/V153/04	Spiral-2 Pipe Storage Yard	Day Time	db(A)Leq	IS 9989	50.3	75
2	Lab/PN/947C/51/V153/04	Spiral-2 Pipe Storage Yard	Night time	dB(A)Leq	IS 9989	41.4	70

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min:42.8, Max:54.2 Value in dB(A) Night Time Min39.2, Max:43.5

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

P. Parekh

Analyzed By
Pooja Parekh



P.B. Patel

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/956C/51/V154/08

Reporting Date: 14/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory representative

Sampling Date: 08/08/2023
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/956C/51/ V154/08	Main Gate	Day Time	db(A)Leq	IS 9989	49.8	75
2	Lab/PN/956C/51/ V154/08	Main Gate	Night time	db(A)Leq	IS 9989	41.8	70

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min: 42.5, Max: 54.2 Value in dB(A) Night Time: Min: 39.2, Max: 44.1

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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/975C/51/V155/07

Reporting Date: 15/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory representative

Sampling Date: 11/08/2023
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/975C/51/ V155/07	School Building	Day Time	db(A)Leq	IS 9989	49.3	55
2	Lab/PN/975C/51/ V155/07	School Building	Night time	db(A)Leq	IS 9989	42.1	45

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min: 44.5, Max: 53.9 Value in dB(A) Night Time: Min: 38.2, Max: 43.6

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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/1075C/51/V165/08

Reporting Date: 31/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 25/08/2023

Sample By Laboratory representative

Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1075C/5 1/V165/08	Vikaspuram	Day Time	db(A)Leq	IS 9989	51.6	55
2	Lab/PN/1075C/5 1/V165/08	Vikaspuram	Night Time	db(A)Leq	IS 9989	43.3	45

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min: 47.0, Max: 54.2 Value in dB(A) Night Time: Min: 41.0, Max: 44.7

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

P. Parekh

Analyzed By
Pooja Parekh

P. B. Patel

Authorized Signatory
Payal Patel



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Workzone Noise Report

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1033C/51/V160/04

Reporting Date: 24/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory representative

Sampling Date: 19/08/2023
Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1033C/5 1/V160/04A	BF 1 Control Room	Day Time	dB(A)Leq	IS 4758	52.9	85
2	Lab/PN/1033C/5 1/V160/04B	CPP. Control Room	Day Time	dB(A)Leq	IS 4758	58.0	85
3	Lab/PN/1033C/5 1/V160/04C	BF Laboratory	Day Time	dB(A)Leq	IS 4758	55.4	85
4	Lab/PN/1033C/5 1/V160/04D	Blower House Control Room	Day Time	dB(A)Leq	IS 4758	56.7	85

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

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

P. Parekh
Analyzed By
Pooja Parekh



P.B. Patel
Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/984C/51/V156/05

Reporting Date: 18/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 12/08/2023

Sample By Laboratory representative

Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/984C/51/ V156/05A	BF 2 Control Room	Day Time	dB(A)Leq	IS 4758	53.8	85
2	Lab/PN/984C/51/ V156/05B	Blower House	Day Time	dB(A)Leq	IS 4758	80.1	85
3	Lab/PN/984C/51/ V156/05C	Cast House	Day Time	dB(A)Leq	IS 4758	69.5	85
4	Lab/PN/984C/51/ V156/05D	Stock House	Day Time	dB(A)Leq	IS 4758	65.2	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

P. Parekh
Analyzed By
Pooja Parekh



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/928C/51/V152/05

Reporting Date: 09/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 05/08/2023

Sample By Laboratory representative

Sample Description:

Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/928C/51/V152/05A	Sinter -1 Control Room	Day Time	dB(A)Leq	IS 4758	54.9	85
2	Lab/PN/928C/51/V152/05B	Sinter Machine Area	Day Time	dB(A)Leq	IS 4758	79.5	85
3	Lab/PN/928C/51/V152/05C	Nr.Flux Building	Day Time	dB(A)Leq	IS 4758	68.0	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

Pooja Parekh
Analyzed By
Pooja Parekh



P. B. Patel
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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/921C/51/V151/08

Reporting Date: 09/08/2023

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415



SAMPLE DETAILS


Sampling Instrument : Sound Level Meter
Sample By Laboratory representative

Sampling Date: 04/08/2023
Sample Description: Workzone Noise


Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/921C/51/V151/08A	Sinter 2 Control Room	Day Time	dB(A)Leq	IS 4758	56.2	85
2	Lab/PN/921C/51/V151/08B	Sinter Machine Area	Day Time	dB(A)Leq	IS 4758	78.7	85
3	Lab/PN/921C/51/V151/08C	Proportional Building	Day Time	dB(A)Leq	IS 4758	65.5	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


Analyzed By
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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1107C/51/V170/04

Reporting Date: 02/09/2023

JINDAL SAW LIMITED

Samaghoha, Mundra, Kutch-370415



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory representative

Sampling Date: 31/08/2023
Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1107C/5 1/V170/04A	SDP 1 CCM Area	Day Time	dB(A)Leq	IS 4758	69.7	85
2	Lab/PN/1107C/5 1/V170/04B	DISP Annealing Furnace	Day Time	dB(A)Leq	IS 4758	58.6	85
3	Lab/PN/1107C/5 1/V170/04C	ETP	Day Time	dB(A)Leq	IS 4758	70.4	85
4	Lab/PN/1107C/5 1/V170/04D	Pickling & Passivation	Day Time	dB(A)Leq	IS 4758	66.2	85
5	Lab/PN/1107C/5 1/V170/04E	FL-7 Office	Day Time	dB(A)Leq	IS 4758	51.4	85
6	Lab/PN/1107C/5 1/V170/04F	Mould Shop	Day Time	dB(A)Leq	IS 4758	75.6	85
7	Lab/PN/1107C/5 1/V170/04G	Shot Blasting	Day Time	dB(A)Leq	IS 4758	79.8	85
8	Lab/PN/1107C/5 1/V170/04H	Spiral ID/OD	Day Time	dB(A)Leq	IS 4758	66.9	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

P. Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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Form -37


Form No. 37

(Prescribed under Rule 12-B)

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

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

Date of Sampling : 12-08-2023

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	Cast House	CO	CO Analyzer	5	6	7	8	9	10	11	12	13
				2	2.18 mg/m ³ 2.52 mg/m ³	2.35 mg/m ³	40 mg/m ³					
1	Cast House	RSPM	Handy Sampler	2	2.32 mg/m ³ 2.57 mg/m ³	2.44 mg/m ³	10 mg/m ³	NIOSH-0600	3	-		Pankil
				2	67.2 dB 70.6 dB	69.9 dB	85 dB					



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P. B. Patel

AUTHORIZED SIGNATORY

Form No. 37

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).
 1 Name of the Department/Plant.: Blast Furnace-2 Cast House at JINDAL SAW LIMITED, Samaghoghga. (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 : 12-08-2023

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	2.52 mg/m ³ 3.21 mg/m ³	2.87 mg/m ³	40 mg/m ³	IS 5182(Part-10)				
1	Cast House	RSPM	Handy Sampler	2	2.37 mg/m ³ 2.73 mg/m ³	2.55 mg/m ³	10 mg/m ³	NIOSH-0600	3	-	<i>Pankil</i>	Pankil
		Noise	Noise Meter	2	70.9 dB 67.1 dB	69.0 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-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 : 05-08-2023

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	Sinter -1 First Floor	CO	CO Analyzer	2	2.41 mg/m ³ 2.86 mg/m ³	2.64 mg/m ³	40 mg/m ³	IS 5182 (Part-10)	4	-	P	Pankil
				2	2.14 mg/m ³ 2.52 mg/m ³	2.33 mg/m ³	10 mg/m ³	NIOSH-0600				
		Noise	Noise Meter	2	69.4 73.3	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 : 07-08-2023

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	2.41 mg/m ³ 3.09 mg/m ³	2.75 mg/m ³	40 mg/m ³	IS 5182 (Part-10)				
1	Sinter -2 First Floor	RSPM	Handy Sampler	2	2.36 mg/m ³ 2.05 mg/m ³	2.21 mg/m ³	10 mg/m ³	NIOSH-0600	4	-	<i>P. B. Patel</i>	Pankil
		Noise	Noise Meter	2	71.5 dB 67.2 dB	69.4 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.: **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 : 05-08-2023

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
		RSPM	Handy Sampler	2	2.35 mg/m ³ 1.55 mg/m ³	1.95 mg/m ³	10 mg/m ³	NIOSH-0600	4	-	<i>P</i>	Pankil
1	DISP CCM Area	Noise	Noise Meter	2	73.3 dB 66.5 dB	69.9 dB	85 dB	IS 4758				



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Form No. 37^e

(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 : 19-08-2023

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	4.4 mg/m ³ 5.1 mg/m ³	4.75 mg/m ³	40 mg/m ³	IS 5182 (Part-11)				
1	SDP-2 Induction	RSPM	Handy Sampler	2	2.42 mg/m ³ 1.62 mg/m ³	2.02 mg/m ³	10 mg/m ³	NIOSH-0600	3	-		Pankil
		Noise	Noise Meter	2	69.4 dB 61.2 dB	65.3 dB	85 dB	IS 4758				



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P. B. Pate
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Form No. 37

(Prescribed under Rule 12-B)

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

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

Date of Sampling : 19-08-2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Spiral Id and OD Area	RSPM	Handy Sampler	2	2.13 mg/m ³ 1.89 mg/m ³	2.01 mg/m ³	10 mg/m ³	NIOSH-0600	4	-	<i>[Signature]</i>	Pankil
		Noise	Noise Meter	2	72.3 dB 67.2 dB	69.75 dB	85 dB	IS 4758				



GO GREEN MECHANISMS PVT. LTD.

[Signature]

AUTHORIZED SIGNATOR

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 : 26-08-2023

Sr. No	Location/ Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)		Reference Method	Number of workers exposed at the location being monitored	Remark	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average	LEL (%)	LEL (%)					
1	LPG YARD	LEL	Gas Detector	02	...	ND	...	2.1 (Propane)	...	LEL monitor	-		Pankil
		RSPM	Handy Sampler	02	2.74 mg/m ³ 1.93 mg/m ³	2.34 mg/m ³	10 mg/m ³	NIOSH-0600	3	-			
		Noise	Noise Meter	02	70.4 dB 68.2 dB	69.3 dB	85 dB	IS 4758					



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P.B. Patil
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(Prescribed under Rule 12-B)

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

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

Date of Sampling :

26-08-2023

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	SDP-2 Bitumin Area	RSPM	Handy Sampler	2	2.56 mg/m ³ 2.32 mg/m ³	2.44 mg/m ³	10 mg/m ³	NIOSH-0600	4	-		Pankil
				2	73.7 dB 68.5 dB	71.1 dB	85 dB					
		2	VOC	Low Volume Pump	4.0 mg/m ³ 4.5 mg/m ³	4.25 mg/m ³	-	IS 5182 Part-11				



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Form No. 37

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

Date of Sampling : 30-08-2023

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	3.12 mg/m ³ 2.56 mg/m ³	2.84 mg/m ³	10 mg/m ³	NIOSH-0600	4	-		Pankil	
				2	72.7 dB 69.5 dB	71.1 dB	85 dB						IS 4758
		HF	Handy Sampler	2	BQL BQL	BQL	BQL	2.5 mg/m ³	NIOSH-7903	4	-		Pankil
				2	BQL BQL	BQL	BQL	5 mg/m ³					



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P. B. Puri
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Form No. 37

(Prescribed under Rule 12-B)

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

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

Date of Sampling : 31.08.2023

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	Coating 2 Application Area	RSPM	Handy Sampler	2	2.27 mg/m ³ 1.95 mg/m ³	2.11 mg/m ³	10 mg/m ³	NIOSH-0600	4	-	<i>P</i>	Pankil
		Noise	Noise Meter	2	70.3 dB 69.1 dB	69.7 dB	85 dB	IS 4758				



GO GREEN MECHANISMS PVT. LTD.

P.B. Puri
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Wastewater Report

CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1064C/51/V164/01

Reporting Date : 31/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1064C/51/V164/01	Sampling Date:	24/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/08/2023
Sample Type:	Waste Water	Analysis Start Date:	26/08/2023
Sample Description:	STP Outlet	Analysis End Date:	31/08/2023
Sample Quantity:	4.5 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	7.31	-	IS 3025- Part 11	6.5 to 8.5
2	Total Dissolved Solids	1150.00	mg/L	APHA 23rd Edn 2540 C	NS
3	Total Suspended Solids	BQL (QL=10)	mg/L	APHA 23rd Edn 2540 D	100
4	Chemical Oxygen Demand	30.00	mg/L	APHA 23rd Edn 5220 B	50
5	BOD at 20°C – 5 Days	9.0	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

P. Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/1064C/51/V164/02

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date : 31/08/2023



SAMPLE DETAILS

Lab ID:	Lab/PN/1064C/51/V164/02	Sampling Date:	24/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/08/2023
Sample Type:	Waste Water	Analysis Start Date:	26/08/2023
Sample Description:	STP Inlet	Analysis End Date:	31/08/2023
Sample Quantity:	4.5 L	Sampling Method:	GGML/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.29	-	IS 3025- Part 11	-
2	Total Dissolved Solids	1118.00	mg/L	APHA 23rd Edn 2540 C	-
3	Total Suspended Solids	80.00	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	34	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

P. Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1064C/51/V164/03

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date : 31/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1064C/51/V164/03	Sampling Date:	24/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/08/2023
Sample Type:	Waste Water	Analysis Start Date:	26/08/2023
Sample Description:	ETP Outlet	Analysis End Date:	31/08/2023
Sample Quantity:	5.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.79	-	IS 3025- Part 11	6.5 to 8.5
2	Temperature °C	25.6	°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	118.11	mg/L	APHA 23rd Edn 4500 SO4 E	1000
6	Fluoride	0.73	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	958.00	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	544.83	mg/L	IS 3025- Part 32	600
12	Chemical Oxygen Demand	40.00	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

P. Parekh
Analyzed By
Pooja Parekh



P. B. Patel
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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1064C/51/V164/03

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date : 31/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1064C/51/V164/03	Sampling Date:	24/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/08/2023
Sample Type:	Waste Water	Analysis Start Date:	26/08/2023
Sample Description:	ETP Outlet	Analysis End Date:	31/08/2023
Sample Quantity:	5.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Ammonical Nitrogen	2.52	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	12	mg/L	IS 3025- Part 44	30
16	Sodium	0.0136	%	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	3.50	-	GGMPL/SOP/W/52	26

Plant Name : Pipe Plant; GPCB ID : 18036

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

P. Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1064C/51/V164/04

Reporting Date : 31/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1064C/51/V164/04	Sampling Date:	24/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/08/2023
Sample Type:	Waste Water	Analysis Start Date:	26/08/2023
Sample Description:	ETP Inlet	Analysis End Date:	31/08/2023
Sample Quantity:	5.5 L	Sampling Method:	GGMPL/WI/27C
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	3.58	-	IS 3025- Part 11	-
2	Temperature °C	25.6	°C	APHA 23rd Edn 2550 B	-
3	Color	BQL (QL=1)	CU	IS 3025- Part 4	-
4	Iron as Fe	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-
5	Sulphate	15.41	mg/L	APHA 23rd Edn 4500 SO4 E	-
6	Fluoride	0.60	mg/L	APHA 23rd Edn 4500 F D	-
7	Phenolic compounds	BQL (QL=0.01)	mg/L	IS 3025- Part 43	-
8	Total Dissolved Solids	235.00	mg/L	APHA 23rd Edn 2540 C	-
9	Total Suspended Solids	11.00	mg/L	APHA 23rd Edn 2540 D	-
10	Oil and Grease	2.5	mg/L	IS 3025- Part 39	-
11	Chloride	34.99	mg/L	IS 3025- Part 32	-
12	Chemical Oxygen Demand	60.00	mg/L	APHA 23rd Edn 5220 B	-

Plant Name : Pipe Plant ; GPCB ID : 18036

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

P. Parekh

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Pooja Parekh



P. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1064C/51/V164/04

Reporting Date : 31/08/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1064C/51/V164/04	Sampling Date:	24/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/08/2023
Sample Type:	Waste Water	Analysis Start Date:	26/08/2023
Sample Description:	ETP Inlet	Analysis End Date:	31/08/2023
Sample Quantity:	5.5 L	Sampling Method:	GGMPL/WI/27C
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Ammonical Nitrogen	1.4	mg/L	APHA 23rd Edn 4500 NH3 C	-
14	Sulphide	BQL (QL=0.2)	mg/L	APHA 23rd Edn 4500 S2 F	-
15	BOD at 27 o C for 3 days	18	mg/L	IS 3025- Part 44	-
16	Sodium	0.0098	%	APHA 23rd Edn 3120 B	-
17	Zinc as Zn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	-
18	Sodium Absorption Ratio	3.11	-	GGMPL/SOP/W/52	-

Plant Name : Pipe Plant ; GPCB ID : 18036

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

Pooja Parekh

Analyzed By
Pooja Parekh



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1064C/51/V164/05

JINDAL SAW LIMITED
Samaghogha, Mundra, Kutch-370415

Reporting Date : 31/08/2023



SAMPLE DETAILS

Lab ID:	Lab/PN/1064C/51/V164/05	Sampling Date:	24/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/08/2023
Sample Type:	Waste Water	Analysis Start Date:	26/08/2023
Sample Description:	BF SGP	Analysis End Date:	31/08/2023
Sample Quantity:	5.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.52	-	IS 3025- Part 11	6.5 to 8.5
2	Temperature °C	25.6	°C	APHA 23rd Edn 2550 B	40
3	Color	5	CU	IS 3025- Part 4	100
4	Sulphate	313.44	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	1072.00	mg/L	APHA 23rd Edn 2540 C	2100
7	Total Suspended Solids	35.00	mg/L	APHA 23rd Edn 2540 D	100
8	Oil and Grease	2.3	mg/L	IS 3025- Part 39	10
9	Chloride	434.87	mg/L	IS 3025- Part 32	600
10	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	100
11	Ammonical Nitrogen	15.68	mg/L	APHA 23rd Edn 4500 NH3 C	50
12	BOD at 27 °C for 3 days	22	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

P. Parekh
Analyzed By
Pooja Parekh



P. B. Patel
Authorized Signatory
Payal Patel

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