

**Report Issued to:**

**JINDAL SAW LIMITED**

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

**ENVIRONMENTAL MONTHLY MONITORING REPORT**

**MONTH OF SEP'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

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# **Ambient Air Report**

## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1127C/51/V171/01

Reporting Date: 07/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1127C/51/V171/01	Sampling Start Date:	01/09/2023 (09:42 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023 (09:42 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Old Colony	Analysis start- End Date:	04/09/2023-06/09/2023
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)	59.78	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.11	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	1.0	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER.

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

*Sachi*

Analyzed By  
Sachi Patel



*P. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1127C/51/V171/02

Reporting Date: 07/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1127C/51/V171/02	Sampling Start Date:	01/09/2023 (10:04 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023 (10:04 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	04/09/2023-06/09/2023
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)	57.48	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	24.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.41	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	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	1.0	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*  
Analyzed By  
Sachi Patel



*P.B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1127C/51/V171/03

Reporting Date: 07/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1127C/51/V171/03	Sampling Start Date:	01/09/2023 (10:30 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023 (10:30 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	STP	Analysis start- End Date:	04/09/2023-06/09/2023
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)	58.61	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	25.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.32	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.39	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	1.0	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

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*P. B. Patel*  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1127C/51/V171/04

Reporting Date: 07/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1127C/51/V171/04	Sampling Start Date:	01/09/2023 (10:58 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023 (10:58 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	04/09/2023-06/09/2023
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)	58.63	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.54	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	1.0	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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Sachi Patel



*P. B. Patel*

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Reporting Date: 09/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1149C/51/V173/01	Sampling Start Date:	04/09/2023 (09:38 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/09/2023 (09:38 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	06/09/2023
Sample Description:	Old Colony	Analysis start- End Date:	06/09/2023-08/09/2023
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)	61.52	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)	9.75	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	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.3	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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*Sachi*

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*P. B. Patel*

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Payal Patel

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Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1149C/51/V173/02	Sampling Start Date:	04/09/2023 (10:01 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/09/2023 (10:01 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	06/09/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	06/09/2023-08/09/2023
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)	59.38	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)	10.18	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.22	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.3	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*

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Samaghogha, Mundra, Kutch-370415



TC-7073


### SAMPLE DETAILS

Lab ID:	Lab/PN/1149C/51/V173/03	Sampling Start Date:	04/09/2023 (10:30 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/09/2023 (10:30 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	06/09/2023
Sample Description:	STP	Analysis start- End Date:	06/09/2023-08/09/2023
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)	63.30	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)	12.19	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.99	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.3	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

  
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Reporting Date: 09/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1149C/51/V173/04	Sampling Start Date:	04/09/2023 (10:59 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/09/2023 (10:59 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	06/09/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	06/09/2023-08/09/2023
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)	57.42	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)	12.53	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.94	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.3	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1182C/51/V176/01

Reporting Date: 13/09/2023

JINDAL SAW LIMITED  
Samaghoha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1182C/51/V176/01	Sampling Start Date:	08/09/2023 (09:44 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	09/09/2023 (09:44 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Old Colony	Analysis start- End Date:	11/09/2023-13/09/2023
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)	65.28	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.75	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.55	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	12.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*

Analyzed By  
Sachi Patel



*P.B.Patel*

Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1182C/51/V176/02

Reporting Date: 13/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1182C/51/V176/02	Sampling Start Date:	08/09/2023 (10:11 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	09/09/2023 (10:11 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	11/09/2023-13/09/2023
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)	61.39	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)	9.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.84	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	12.7	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/1182C/51/V176/03

Reporting Date: 13/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1182C/51/V176/03	Sampling Start Date:	08/09/2023 (10:38 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	09/09/2023 (10:38 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	STP	Analysis start- End Date:	11/09/2023-13/09/2023
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)	57.24	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.70	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.62	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	12.7	Km/Hrs	GGMP/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1182C/51/V176/04

Reporting Date: 13/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1182C/51/V176/04	Sampling Start Date:	08/09/2023 (11:05 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	09/09/2023 (11:05 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	11/09/2023-13/09/2023
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)	62.78	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)	10.92	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.42	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	12.7	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1209C/51/V178/01

Reporting Date: 18/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1209C/51/V178/01	Sampling Start Date:	11/09/2023 (09:52 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/09/2023 (09:52 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	13/09/2023
Sample Description:	Old Colony	Analysis start- End Date:	13/09/2023-16/09/2023
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)	63.19	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)	11.44	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.58	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	8.9	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*

Analyzed By  
Sachi Patel



*P.B. Patel*

Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/1209C/51/V178/02

Reporting Date: 18/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1209C/51/V178/02	Sampling Start Date:	11/09/2023 (10:31 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/09/2023 (10:31 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	13/09/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	13/09/2023-16/09/2023
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)	58.23	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)	10.14	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.77	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	8.9	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1209C/51/V178/03

Reporting Date: 18/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1209C/51/V178/03	Sampling Start Date:	11/09/2023 (10:49 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/09/2023 (10:49 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	13/09/2023
Sample Description:	STP	Analysis start- End Date:	13/09/2023-16/09/2023
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)	61.14	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)	11.79	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.33	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	8.9	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1209C/51/V178/04

Reporting Date: 18/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1209C/51/V178/04	Sampling Start Date:	11/09/2023 (11:18 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/09/2023 (11:18 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	13/09/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	13/09/2023-16/09/2023
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)	62.59	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)	9.75	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.80	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	8.9	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/1250C/51/V181/01

Reporting Date: 22/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1250C/51/V181/01	Sampling Start Date:	15/09/2023 (09:42 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/09/2023 (09:42 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	17/09/2023
Sample Description:	Old Colony	Analysis start- End Date:	18/09/2023-21/09/2023
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)	57.13	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.92	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.60	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	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.6	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*  
Analyzed By  
Sachi Patel



*P.B. Patel*  
Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/1250C/51/V181/02

Reporting Date: 22/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1250C/51/V181/02	Sampling Start Date:	15/09/2023 (10:03 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/09/2023 (10:03 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	17/09/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	18/09/2023-21/09/2023
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)	58.66	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.77	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	2.6	Km/Hrs	GGMP/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1250C/51/V181/03

Reporting Date: 22/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1250C/51/V181/03	Sampling Start Date:	15/09/2023 (10:33 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/09/2023 (10:33 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	17/09/2023
Sample Description:	STP	Analysis start- End Date:	18/09/2023-21/09/2023
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)	62.17	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)	11.79	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	2.6	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*

Analyzed By  
Sachi Patel



*P.B. Patel*

Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/1250C/51/V181/04

Reporting Date: 22/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1250C/51/V181/04	Sampling Start Date:	15/09/2023 (11:04 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/09/2023 (11:04 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	17/09/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	18/09/2023-21/09/2023
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)	59.47	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.91	µg/m3	GGMP/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)	19.52	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	2.6	Km/Hrs	GGMP/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*

Analyzed By  
Sachi Patel



*P.B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/1264C/51/V183/01

Reporting Date: 25/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1264C/51/V183/01	Sampling Start Date:	18/09/2023 (09:30 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2023 (09:30 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2023
Sample Description:	Old Colony	Analysis start- End Date:	20/09/2023-23/09/2023
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)	57.21	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.71	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.58	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	GGMP/SOP/MP/01	NS
7	Average Wind Speed	7.7	Km/Hrs	GGMP/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1264C/51/V183/02

Reporting Date: 25/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1264C/51/V183/02	Sampling Start Date:	18/09/2023 (09:56 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2023 (09:56 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	20/09/2023-23/09/2023
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)	54.78	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.53	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.77	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	7.7	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1264C/51/V183/03

Reporting Date: 25/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1264C/51/V183/03	Sampling Start Date:	18/09/2023 (10:17 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2023 (10:17 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2023
Sample Description:	STP	Analysis start- End Date:	20/09/2023-23/09/2023
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)	61.34	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)	10.06	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.80	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	7.7	Km/Hrs	GGMPL/SOP/MP/01	NS

### AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1264C/51/V183/04

Reporting Date: 25/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1264C/51/V183/04	Sampling Start Date:	18/09/2023 (10:46 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2023 (10:46 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	20/09/2023-23/09/2023
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)	56.76	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)	11.44	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.32	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	7.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-SEPTEMBER

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1295C/51/V187/01

Reporting Date: 29/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1295C/51/V187/01	Sampling Start Date:	22/09/2023 (09:38 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/09/2023 (09:38 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	24/09/2023
Sample Description:	Old Colony	Analysis start- End Date:	25/09/2023-28/09/2023
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)	59.32	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)	10.99	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.31	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	WSW	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-SEPTEMBER

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1295C/51/V187/02

Reporting Date: 29/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1295C/51/V187/02	Sampling Start Date:	22/09/2023 (10:04 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/09/2023 (10:04 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	24/09/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	25/09/2023-28/09/2023
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)	58.44	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)	9.61	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.42	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	WSW	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-SEPTEMBER

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1295C/51/V187/03

Reporting Date: 29/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1295C/51/V187/03	Sampling Start Date:	22/09/2023 (10:29 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/09/2023 (10:29 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	24/09/2023
Sample Description:	STP	Analysis start- End Date:	25/09/2023-28/09/2023
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)	56.94	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)	8.88	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.87	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	WSW	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-SEPTEMBER

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. Patel*  
Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1295C/51/V187/04

Reporting Date: 29/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1295C/51/V187/04	Sampling Start Date:	22/09/2023 (11:01 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/09/2023 (11:01 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	24/09/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	25/09/2023-28/09/2023
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)	57.78	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)	11.20	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.06	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	WSW	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-SEPTEMBER

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

*Sachi*

Analyzed By  
Sachi Patel



*P.B. Patel*

Authorized Signatory  
Paya Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1317C/51/V189/01

Reporting Date: 03/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1317C/51/V189/01	Sampling Start Date:	25/09/2023 (09:40 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/09/2023 (09:40 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	28/09/2023
Sample Description:	Old Colony	Analysis start- End Date:	28/09/2023-02/10/2023
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)	56.83	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)	10.02	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.40	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH SEPTEMBER

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1317C/51/V189/02

Reporting Date: 03/10/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1317C/51/V189/02	Sampling Start Date:	25/09/2023 (10:06 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/09/2023 (10:06 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	28/09/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	28/09/2023-02/10/2023
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)	55.78	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)	9.68	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.50	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH SEPTEMBER

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

*Sachi*

Analyzed By  
Sachi Patel



*P.B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1317C/51/V189/03

Reporting Date: 03/10/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1317C/51/V189/03	Sampling Start Date:	25/09/2023 (10:33 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/09/2023 (10:33 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	28/09/2023
Sample Description:	STP	Analysis start- End Date:	28/09/2023-02/10/2023
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)	56.54	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)	9.71	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.64	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH SEPTEMBER

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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1317C/51/V189/04

Reporting Date: 03/10/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1317C/51/V189/04	Sampling Start Date:	25/09/2023 (11:04 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/09/2023 (11:04 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	28/09/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	28/09/2023-02/10/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	57.44	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.92	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.05	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH SEPTEMBER

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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1374C/51/V193/01

Reporting Date: 04/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1374C/51/V193/01	Sampling Start Date:	29/09/2023 (10:02 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/09/2023 (10:02 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	01/10/2023
Sample Description:	Old Colony	Analysis start- End Date:	03/10/2023-04/10/2023
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)	58.26	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)	9.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.62	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH SEPTEMBER.

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1374C/51/V193/02

Reporting Date: 04/10/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1374C/51/V193/02	Sampling Start Date:	29/09/2023 (10:24 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/09/2023 (10:24 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	01/10/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	03/10/2023-04/10/2023
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)	56.23	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)	9.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.50	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH SEPTEMBER

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

*Sachi*

Analyzed By  
Sachi Patel



*P.B. Patil*

Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/1374C/51/V193/03

Reporting Date: 04/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1374C/51/V193/03	Sampling Start Date:	29/09/2023 (10:59 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/09/2023 (10:59 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	01/10/2023
Sample Description:	STP	Analysis start- End Date:	03/10/2023-04/10/2023
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)	55.42	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.33	µg/m3	GGMP/ SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.71	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.62	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMP/ SOP/MP/01	NS
7	Average Wind Speed	2.3	Km/Hrs	GGMP/ SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH SEPTEMBER

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

*Sachi*

Analyzed By  
Sachi Patel



*P.B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1374C/51/V193/04

Reporting Date: 04/10/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1374C/51/V193/04	Sampling Start Date:	29/09/2023 (11:25 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/09/2023 (11:25 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	01/10/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	03/10/2023-04/10/2023
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)	58.84	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)	10.14	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.05	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH SEPTEMBER

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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**Fugitive  
Monitoring  
Report**

## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1392C/51/V194/01

Reporting Date: 05/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1392C/51/V194/01	Sampling Start Date:	30/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/09/2023
Sample Type:	Fugitive	Sample Receipt Date:	02/10/2023
Sample Description:	BF 1 De Dusting	Analysis start- End Date:	02/10/2023-05/10/2023
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	20.53	µg/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	11.48	µg/m <sup>3</sup>	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m <sup>3</sup>	IS 5182 (part 10)	10 for 1 hr
4	Suspended Particulate Matter (SPM)	2208.37	µg/m <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1392C/51/V194/02

Reporting Date: 05/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1392C/51/V194/02	Sampling Start Date:	30/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/09/2023
Sample Type:	Fugitive	Sample Receipt Date:	02/10/2023
Sample Description:	BF 1 Cast House	Analysis start- End Date:	03/10/2023-05/10/2023
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	32.17	µg/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	20.88	µg/m <sup>3</sup>	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m <sup>3</sup>	IS 5182 (part 10)	10 for 1 hr
4	Suspended Particulate Matter (SPM)	2166.44	µg/m <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P.B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1196C/51/V179/01

Reporting Date: 13/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1196C/51/V179/01	Sampling Start Date:	09/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	09/09/2023
Sample Type:	Fugitive	Sample Receipt Date:	10/09/2023
Sample Description:	BF 2 Ground Hopper	Analysis start- End Date:	11/09/2023-13/09/2023
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	30.52	µg/m3	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO2)	19.77	µg/m <sup>3</sup>	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)	2125.02	µg/m3	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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1196C/51/V179/02

Reporting Date: 13/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1196C/51/V179/02	Sampling Start Date:	09/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	09/09/2023
Sample Type:	Fugitive	Sample Receipt Date:	10/09/2023
Sample Description:	BF 2 De Dusting	Analysis start- End Date:	11/09/2023-13/09/2023
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	22.73	µg/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	15.61	µg/m <sup>3</sup>	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m <sup>3</sup>	IS 5182 (part 10)	10 for 1 hr
4	Suspended Particulate Matter (SPM)	1934.19	µg/m <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/1300C/51/V188/01

Reporting Date: 29/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1300C/51/V188/01	Sampling Start Date:	23/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/09/2023
Sample Type:	Fugitive	Sample Receipt Date:	25/09/2023
Sample Description:	Sinter-01 Screening Building	Analysis start- End Date:	26/09/2023-29/09/2023
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	25.57	µg/m3	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO2)	15.37	µg/m <sup>3</sup>	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)	1820.65	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1343C/51/V191/01

Reporting Date: 03/10/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1343C/51/V191/01	Sampling Start Date:	27/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/09/2023
Sample Type:	Fugitive	Sample Receipt Date:	29/09/2023
Sample Description:	Sinter-02 Crushing Building	Analysis start- End Date:	29/09/2023-03/10/2023
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	23.46	µg/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	17.63	µg/m <sup>3</sup>	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m <sup>3</sup>	IS 5182 (part 10)	10 for 1 hr
4	Suspended Particulate Matter (SPM)	1940.74	µg/m <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/1140C/51/V172/01

Reporting Date: 07/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1140C/51/V172/01	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Fugitive	Sample Receipt Date:	04/09/2023
Sample Description:	SDP 2 CCM Area	Analysis start- End Date:	04/09/2023-06/09/2023
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/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	12.54	µg/m <sup>3</sup>	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m <sup>3</sup>	IS 5182 (part 10)	10 for 1 hr
4	Suspended Particulate Matter (SPM)	1354.17	µg/m <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1140C/51/V172/02

Reporting Date: 07/09/2023

**JINDAL SAW LIMITED**  
Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1140C/51/V172/02	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Fugitive	Sample Receipt Date:	04/09/2023
Sample Description:	SDP 1 CCM Area	Analysis start- End Date:	04/09/2023-06/09/2023
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	26.74	µg/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	16.71	µg/m <sup>3</sup>	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m <sup>3</sup>	IS 5182 (part 10)	10 for 1 hr
4	Suspended Particulate Matter (SPM)	1957.48	µg/m <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1354C/51/V192/03

Reporting Date: 03/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1354C/51/V192/03	Sampling Start Date:	28/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/09/2023
Sample Type:	Fugitive	Sample Receipt Date:	29/09/2023
Sample Description:	DISP CCM Area	Analysis start- End Date:	29/09/2023-03/10/2023
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	22.73	µg/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	12.44	µg/m <sup>3</sup>	IS 5182 (Part 2)	150
3	Carbon Monoxide	BQL (QL=0.01)	mg/m <sup>3</sup>	IS 5182 (part 10)	10 for 1 hr
4	Suspended Particulate Matter (SPM)	1687.38	µg/m <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payaal Patel

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# **Stack Monitoring Report**

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1264C/51/V183/05

Reporting Date: 25/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1264C/51/V183/05	Sampling Date:	18/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2023
Sample Type:	Stack	Analysis start- End Date:	20/09/2023-23/09/2023
Stack Height & Dia (m):	35 & 1.5	Stack Temperature (°C):	34
Stack Attached To:	De Dusting Stack-1	Stack gas velocity (m/sec):	9.22
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8611

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	9.17	mg/Nm <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1295C/51/V187/05

Reporting Date: 29/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1295C/51/V187/05	Sampling Date:	22/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/09/2023
Sample Type:	Stack	Analysis start- End Date:	25/09/2023-28/09/2023
Stack Height & Dia (m):	50 & 1.4	Stack Temperature (°C):	145
Stack Attached To:	Stove Stack	Stack gas velocity (m/sec):	10.04
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.681

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	4.99	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Oxides of Nitrogen	9.40	mg/Nm <sup>3</sup>	GGMPL/SOP/SEA/68	25
3	Sulphur Dioxide	15.71	mg/Nm <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P.B. Patel*

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1295C/51/V187/06

Reporting Date: 29/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1295C/51/V187/06	Sampling Date:	22/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/09/2023
Sample Type:	Stack	Analysis start- End Date:	25/09/2023-28/09/2023
Stack Height & Dia (m):	45 & 1.4	Stack Temperature (°C):	145
Stack Attached To:	Boiler-I	Stack gas velocity (m/sec):	6.32
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.9487

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	5.17	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Oxides of Nitrogen	11.28	mg/Nm <sup>3</sup>	GGMPL/SOP/SEA/68	25
3	Sulphur Dioxide	5.24	mg/Nm <sup>3</sup>	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

*Sachi*

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## CERTIFICATE OF ANALYSIS

Report Number: GGMLP/PN/1295C/51/V187/07

Reporting Date: 29/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1295C/51/V187/07	Sampling Date:	22/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/09/2023
Sample Type:	Stack	Analysis start- End Date:	25/09/2023-28/09/2023
Stack Height & Dia (m):	45 & 1.4	Stack Temperature (°C):	149
Stack Attached To:	Boiler-II	Stack gas velocity (m/sec):	5.79
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.8535

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	4.57	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Oxides of Nitrogen	13.16	mg/Nm <sup>3</sup>	GGMLP/SOP/SEA/68	25
3	Sulphur Dioxide	7.85	mg/Nm <sup>3</sup>	GGMLP/SOP/SEA/68	40

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

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

*Sachi*

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Sachi Patel



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1182C/51/V176/05

Reporting Date: 13/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1182C/51/V176/05	Sampling Date:	08/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Stack	Analysis start- End Date:	11/09/2023-13/09/2023
Stack Height & Dia (m):	40 & 1.5	Stack Temperature (°C):	37
Stack Attached To:	De-dusting Stack-2	Stack gas velocity (m/sec):	9.62
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8992

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	26.80	mg/Nm <sup>3</sup>	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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/1277C/51/V185/02

Reporting Date: 27/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1277C/51/V185/02	Sampling Date:	20/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/09/2023
Sample Type:	Stack	Analysis start- End Date:	22/09/2023-26/09/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	32
Stack Attached To:	Coke Fine Building DCS	Stack gas velocity (m/sec):	5.35
Fuel Used:	-	Volume of Air Sampled in NM3:	1.1153

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	29.14	mg/Nm <sup>3</sup>	IS 11255- Part 1	150

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

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1158C/51/V174/01

Reporting Date: 09/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1158C/51/V174/01	Sampling Date:	05/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/09/2023
Sample Type:	Stack	Analysis start- End Date:	06/09/2023-08/09/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	135
Stack Attached To:	Sinter Furnace 1	Stack gas velocity (m/sec):	10.90
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.749

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	33.24	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Sulphur Dioxides	6.0	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	15.0	ppm	GGMPL/SOP/SEA/68	50

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

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

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Sachi Patel



*P.B.Patel*

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1300C/51/V188/03

Reporting Date: 29/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1300C/51/V188/03	Sampling Date:	23/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/09/2023
Sample Type:	Stack	Analysis start- End Date:	25/09/2023-28/09/2023
Stack Height & Dia (m):	32 & 1.4	Stack Temperature (°C):	37
Stack Attached To:	Fuel & Flux Crusher & Screening Building	Stack gas velocity (m/sec):	5.49
Fuel Used:	-	Volume of Air Sampled in NM3:	1.1102

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	23.33	mg/Nm <sup>3</sup>	IS 11255- Part 1	150

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

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

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Sachi Patel



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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1149C/51/V173/05

Reporting Date: 09/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1149C/51/V173/05	Sampling Date:	04/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/09/2023
Sample Type:	Stack	Analysis start- End Date:	06/09/2023-08/09/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	128
Stack Attached To:	Sinter Furnace-2	Stack gas velocity (m/sec):	11.12
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.7743

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	30.87	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Sulphur Dioxides	7	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	13	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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1214C/51/V179/02

Reporting Date: 19/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1214C/51/V179/02	Sampling Date:	12/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/09/2023
Sample Type:	Stack	Analysis start- End Date:	14/09/2023-18/09/2023
Stack Height & Dia (m):	40 & 1.0	Stack Temperature (°C):	131
Stack Attached To:	Discharge End	Stack gas velocity (m/sec):	15.88
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0604

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	35.74	mg/Nm <sup>3</sup>	IS 11255- Part 1	150

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

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1214C/51/V179/04

Reporting Date: 19/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1214C/51/V179/04	Sampling Date:	12/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/09/2023
Sample Type:	Stack	Analysis start- End Date:	14/09/2023-18/09/2023
Stack Height & Dia (m):	30 & 0.8	Stack Temperature (°C):	42
Stack Attached To:	Secondary Mixture Drum	Stack gas velocity (m/sec):	3.85
Fuel Used:	-	Volume of Air Sampled in NM3:	0.7932

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	32.78	mg/Nm <sup>3</sup>	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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1374C/51/V193/08

Reporting Date: 04/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1374C/51/V193/08	Sampling Date:	29/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/10/2023
Sample Type:	Stack	Analysis start- End Date:	03/10/2023-04/10/2023
Stack Height & Dia (m):	30 & 1.0	Stack Temperature (°C):	36
Stack Attached To:	Flux Screening De Dusting System	Stack gas velocity (m/sec):	5.02
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0146

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	27.60	mg/Nm <sup>3</sup>	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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/1227C/51/V180/04

Reporting Date: 19/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1227C/51/V180/04	Sampling Date:	13/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/09/2023
Sample Type:	Stack	Analysis start- End Date:	14/09/2023-18/09/2023
Stack Height & Dia (m):	45 & 1.5	Stack Temperature (°C):	121
Stack Attached To:	Annealing Furnace-III	Stack gas velocity (m/sec):	6.65
Fuel Used:	BFG/LPG	Volume of Air Sampled in NM3:	1.017

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	12.59	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Sulphur Dioxides	12	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	23	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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1227C/51/V180/05

Reporting Date: 19/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1227C/51/V180/05	Sampling Date:	13/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/09/2023
Sample Type:	Stack	Analysis start- End Date:	14/09/2023-18/09/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	40
Stack Attached To:	Socket Cleaning	Stack gas velocity (m/sec):	4.83
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9929

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	27.29	mg/Nm <sup>3</sup>	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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1317C/51/V189/06

Reporting Date: 03/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1317C/51/V189/06	Sampling Date:	25/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/09/2023
Sample Type:	Stack	Analysis start- End Date:	28/09/2023-02/10/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	36
Stack Attached To:	Zn Coating 3	Stack gas velocity (m/sec):	4.68
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9468

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	19.22	mg/Nm <sup>3</sup>	IS 11255- Part 1	20

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

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1317C/51/V189/07

Reporting Date: 03/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1317C/51/V189/07	Sampling Date:	25/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/09/2023
Sample Type:	Stack	Analysis start- End Date:	28/09/2023-02/10/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	37
Stack Attached To:	Zn Coating 4 & 5	Stack gas velocity (m/sec):	5.41
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0623

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	16.94	mg/Nm <sup>3</sup>	IS 11255- Part 1	20

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

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1343C/51/V191/04

Reporting Date: 03/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1343C/51/V191/04	Sampling Date:	27/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/09/2023
Sample Type:	Stack	Analysis start- End Date:	29/09/2023-03/10/2023
Stack Height & Dia (m):	35 & 1.5	Stack Temperature (°C):	117
Stack Attached To:	Annealing Furnace-II	Stack gas velocity (m/sec):	6.02
Fuel Used:	BFG/LPG	Volume of Air Sampled in NM3:	1.019

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	6.87	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Sulphur Dioxides	14	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	23	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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1343C/51/V191/02

Reporting Date: 03/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1343C/51/V191/02	Sampling Date:	27/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/09/2023
Sample Type:	Stack	Analysis start- End Date:	29/09/2023-03/10/2023
Stack Height & Dia (m):	30 & 0.5	Stack Temperature (°C):	44
Stack Attached To:	Mg Converter 2	Stack gas velocity (m/sec):	9.61
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8247

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	26.68	mg/Nm <sup>3</sup>	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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1354C/51/V192/04

Reporting Date: 03/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1354C/51/V192/04	Sampling Date:	28/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/09/2023
Sample Type:	Stack	Analysis start- End Date:	29/09/2023-03/10/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	34
Stack Attached To:	Pickling & Passivation	Stack gas velocity (m/sec):	8.44
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8069

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	2.35	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Oxides of Nitrogen	7.0	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

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Report Number: GGMPL/PN/1354C/51/V192/04A

Reporting Date: 03/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415

### SAMPLE DETAILS

Lab ID:	Lab/PN/1354C/51/V192/04	Sampling Date:	28/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/09/2023
Sample Type:	Stack	Analysis start- End Date:	29/09/2023-03/10/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	34
Stack Attached To:	Pickling & Passivation	Stack gas velocity (m/sec):	8.44
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8069

Sr.No	Parameters*	Results	Unit	Test Method	Norms
1	Hydrogen Fluoride	1.05	mg/Nm <sup>3</sup>	EPA Method 26 A	6
2	HCL	BQL (QL=0.04)	mg/Nm <sup>3</sup>	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

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Report Number: GGMPL/PN/1354C/51/V192/05

Reporting Date: 03/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1354C/51/V192/05	Sampling Date:	28/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/09/2023
Sample Type:	Stack	Analysis start- End Date:	29/09/2023-03/10/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	34
Stack Attached To:	Scrubber For Pilger	Stack gas velocity (m/sec):	5.37
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0675

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	3.65	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Oxides of Nitrogen	9.0	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

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Report Number: GGMPL/PN/1354C/51/V192/05A

Reporting Date: 03/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415

### SAMPLE DETAILS

Lab ID:	Lab/PN/1354C/51/V192/05	Sampling Date:	28/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/09/2023
Sample Type:	Stack	Analysis start- End Date:	29/09/2023-03/10/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	34
Stack Attached To:	Scrubber For Pilger	Stack gas velocity (m/sec):	5.37
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0675

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

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**Bag House  
Performance  
Evaluation  
Report**

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/PL/PN/1264C/51/V183/06

Reporting Date: 25/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1264C/51/V183/06	Sampling Date:	18/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2023
Sample Type:	Stack	Analysis start- End Date:	20/09/2023-23/09/2023
Stack Height & Dia (m):	35 & 1.5	Stack Temperature (°C):	36
Stack Attached To:	De Dusting Stack-1	Stack gas velocity (m/sec):	11.13
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9781

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1890.09	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	9.17	mg/Nm <sup>3</sup>	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

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Sachi 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/1264C/51/V183/06	De-dusting Stack-1	99.5
Plant Name: Blast Furnace -1; GPCB ID: 18037 / APMC-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P-B. Pate*

AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1182C/51/V176/06

Reporting Date: 13/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1182C/51/V176/06	Sampling Date:	08/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Stack	Analysis start- End Date:	11/09/2023-13/09/2023
Stack Height & Dia (m):	40 & 1.5	Stack Temperature (°C):	38
Stack Attached To:	De- dusting Stack-2	Stack gas velocity (m/sec):	12.12
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0797

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2693.34	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	26.80	mg/Nm <sup>3</sup>	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

*Sachi'*

Analyzed By  
Sachi Patel



*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/PN/1182C/51/V176/06	De-Dusting Stack-2	99.0
Plant Name: Blast Furnace 2; GPCB ID: 29026 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. Patel*

AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1158C/51/V174/02

Reporting Date: 09/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1158C/51/V174/02	Sampling Date:	05/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/09/2023
Sample Type:	Stack	Analysis start- End Date:	06/09/2023-08/09/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	140
Stack Attached To:	Sinter Furnace 1	Stack gas velocity (m/sec):	16.62
Fuel Used:	BFG	Volume of Air Sampled in NM3:	1.1245

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	3384.44	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	33.24	mg/Nm <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*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/PN/1158C/51/V174/02	Sinter Furnace-1	99.0

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



GO GREEN MECHANISMS PVT. LTD.

*P. G. Patel*  
AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1149C/51/V173/06

Reporting Date: 09/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1149C/51/V173/06	Sampling Date:	04/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/09/2023
Sample Type:	Stack	Analysis start- End Date:	06/09/2023-08/09/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	133
Stack Attached To:	Sinter Furnace-2	Stack gas velocity (m/sec):	16.54
Fuel Used:	BFG	Volume of Air Sampled in NM3:	1.1208

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1791.93	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	30.87	mg/Nm <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

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/1149C/51/V173/06	Sinter Furnace 2	98.3
Plant Name: Sinter Plant 2; GPCB ID: 29017 / APCM-ESP/Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. Patel*  
AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1227C/51/V180/03

Reporting Date: 19/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1227C/51/V180/03	Sampling Date:	13/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/09/2023
Sample Type:	Stack	Analysis start- End Date:	14/09/2023-18/09/2023
Stack Height & Dia (m):	30 & 1.0	Stack Temperature (°C):	48
Stack Attached To:	Mg Treatment	Stack gas velocity (m/sec):	10.26
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8821

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2671.24	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	30.34	mg/Nm <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Payal*

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/1227C/51/V180/03	Mg Treatment	98.9

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



GO GREEN MECHANISMS PVT. LTD.

*P. B. Patel*

AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1250C/51/V181/06

Reporting Date: 22/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1250C/51/V181/06	Sampling Date:	15/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/09/2023
Sample Type:	Stack	Analysis start- End Date:	18/09/2023-21/09/2023
Stack Height & Dia (m):	30 & 1.0	Stack Temperature (°C):	52
Stack Attached To:	Mg Converter-1	Stack gas velocity (m/sec):	12.03
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9684

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1871.13	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	25.33	mg/Nm <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P.B.Patel*

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/1250C/51/V181/06	Mg Converter-1	98.6
Plant Name: Pipe Plant; GPCB ID: 18036 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. Puro*  
AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1288C/51/V186/02

Reporting Date: 27/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1288C/51/V186/02	Sampling Date:	21/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/09/2023
Sample Type:	Stack	Analysis start- End Date:	23/09/2023-26/09/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	37
Stack Attached To:	Zn Coating Machine FL-7	Stack gas velocity (m/sec):	10.02
Fuel Used:	-	Volume of Air Sampled in NM3:	0.881

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	3007.26	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	17.23	mg/Nm <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

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/1288C/51/V186/02	Zn Coating-7	99.4
Plant Name: Pipe Plant; GPCB ID: 18036 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. Patel*

AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/1331C/51/V190/04

Reporting Date: 03/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1331C/51/V190/04	Sampling Date:	26/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/09/2023
Sample Type:	Stack	Analysis start- End Date:	28/09/2023-03/10/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	40
Stack Attached To:	Zn Coating 2	Stack gas velocity (m/sec):	9.54
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8194

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1722.72	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	16.34	mg/Nm <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

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/1331C/51/V190/04	Zn Coating-2	99.1

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



GO GREEN MECHANISMS PVT. LTD.

*P. B. K.*

AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1343C/51/V191/03

Reporting Date: 03/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1343C/51/V191/03	Sampling Date:	27/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/09/2023
Sample Type:	Stack	Analysis start- End Date:	29/09/2023-03/10/2023
Stack Height & Dia (m):	30 & 0.5	Stack Temperature (°C):	46
Stack Attached To:	Mg Converter 2	Stack gas velocity (m/sec):	10.38
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8726

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	3265.64	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	26.68	mg/Nm <sup>3</sup>	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

*Sachi'*

Analyzed By  
Sachi Patel



*P. B. Patel*

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/PN/1343C/51/V191/03	Mg Conerter-2	99.2
Plant Name: Pipe Plant; GPCB ID: 18036 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. Patel*

AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1354C/51/V192/07

Reporting Date: 03/10/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1354C/51/V192/07	Sampling Date:	28/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/09/2023
Sample Type:	Stack	Analysis start- End Date:	29/09/2023-03/10/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	39
Stack Attached To:	Zn Coating 6	Stack gas velocity (m/sec):	9.90
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8806

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1997.27	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	17.92	mg/Nm <sup>3</sup>	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

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/1354C/51/V192/07	Zn Coating-6	99.1
Plant Name: Pipe Plant; GPCB ID: 18036 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*f. D. Py*  
AUTHORIZED SIGNATORY

# **Ambient Noise Monitoring Report**

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1214C/51/V179/05

Reporting Date: 19/09/2023

**JINDAL SAW LIMITED**  
Samaghogha, Mundra, Kutch-370415

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 12/09/2023  
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1214C/5 1/V179/05	Old Colony	Day Time	db(A)Leq	IS 9989	49.2	55
2	Lab/PN/1214C/5 1/V179/05	Old Colony	Night Time	db(A)Leq	IS 9989	42.5	45

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min: 43.2, Max: 52.7 Value in dB(A) Night Time: Min: 39.8, Max: 44.6

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

Sachi  
Analyzed By  
Sachi Patel



P. B. Patel  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1250C/51/V181/07

Reporting Date: 22/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 15/09/2023  
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1250C/5 1/V181/07	Spiral-2 Pipe Storage Yard	Day Time	db(A)Leq	IS 9989	51.9	75
2	Lab/PN/1250C/5 1/V181/07	Spiral-2 Pipe Storage Yard	Night Time	db(A)Leq	IS 9989	42.6	70

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min: 45.0, Max: 54.8 Value in dB(A) Night Time Min: 40.2, Max: 44.9

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1256C/56/V182/08

Reporting Date: 25/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 16/09/2023  
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1256C/5 6/V182/08	Main Gate	Day Time	db(A)Leq	IS 9989	51.9	75
2	Lab/PN/1256C/5 6/V182/08	Main Gate	Night Time	db(A)Leq	IS 9989	43.1	70

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min: 44.7 , Max: 55.0 Value in dB(A) Night Time: Min: 39.7 , Max: 46.9

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

*Sachi*  
Analyzed By  
Sachi Patel



*P.B. Patel*  
Authorized Signatory  
Payal Patel

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

**CERTIFICATE OF ANALYSIS**

Report Number: GGMP/L/PN/1300C/51/V188/04

Reporting Date: 29/09/2023

**JINDAL SAW LIMITED**  
Samaghogha, Mundra, Kutch-370415



**SAMPLE DETAILS**

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 23/09/2023  
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1300C/5 1/V188/04	Vikaspuram	Day Time	db(A)Leq	IS 9989	49.8	55
2	Lab/PN/1300C/5 1/V188/04	Vikaspuram	Night Day	db(A)Leq	IS 9989	41.7	45

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min: 42.8, Max: 54.0 Value in dB(A) Night Time: Min:39.0, Max:45.6

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

*Sachi*  
Analyzed By  
Sachi Patel



*P.B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1392C/51/V194/03

Reporting Date: 05/10/2023

**JINDAL SAW LIMITED**  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 30/09/2023  
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1392C/5 1/V194/03	School Building	Day Time	db(A)Leq	IS 9989	47.9	55
2	Lab/PN/1392C/5 1/V194/03	School Building	Night Time	db(A)Leq	IS 9989	41.1	45

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min: 44.7, Max: 52.3 Value in dB(A) Night Time: Min: 39.7, Max: 43.2

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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# **Workzone Noise Report**

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/1277C/51/V185/03

Reporting Date: 27/09/2023

**JINDAL SAW LIMITED**  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 20/09/2023  
Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1277C/5 1/V185/03A	BF 1 Control Room	Day Time	dB(A)Leq	IS 4758	51.4	85
2	Lab/PN/1277C/5 1/V185/03B	CPP Control Room	Day Time	dB(A)Leq	IS 4758	54.8	85
3	Lab/PN/1277C/5 1/V185/03C	BF Laboratory	Day Time	dB(A)Leq	IS 4758	55.2	85
4	Lab/PN/1277C/5 1/V185/03D	Blower House Control Room	Day Time	dB(A)Leq	IS 4758	57.0	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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1196C/51/V179/03

Reporting Date: 13/09/2023

**JINDAL SAW LIMITED**  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

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

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1196C/5 1/V179/03A	Control Room	Day Time	dB(A)Leq	IS 4758	51.7	85
2	Lab/PN/1196C/5 1/V179/03B	Cast House	Day Time	dB(A)Leq	IS 4758	70.4	85
3	Lab/PN/1196C/5 1/V179/03C	Blower House	Day Time	dB(A)Leq	IS 4758	79.3	85
4	Lab/PN/1196C/5 1/V179/03D	Stock House	Day Time	dB(A)Leq	IS 4758	64.6	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

*Sachi*

Analyzed By  
Sachi Patel



*P.B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1270C/51/V184/04

Reporting Date: 26/09/2023

**JINDAL SAW LIMITED**  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 19/09/2023  
Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1270C/5 1/V184/04 A	Sinter-1 Control Room	Day Time	dB(A)Leq	IS 4758	53.8	85
2	Lab/PN/1270C/5 1/V184/04 B	Sinter Machine Area	Day Time	dB(A)Leq	IS 4758	79.4	85
3	Lab/PN/1270C/5 1/V184/04 C	Nr Flux Building	Day Time	dB(A)Leq	IS 4758	68.5	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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1149C/51/V173/07

Reporting Date: 09/09/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 04/09/2023  
Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1149C/5 1/V173/07A	Sinter 2 Control Room	Day Time	dB(A)Leq	IS 4758	54.7	85
2	Lab/PN/1149C/5 1/V173/07B	Sinter Machine Area	Day Time	dB(A)Leq	IS 4758	78.9	85
3	Lab/PN/1149C/5 1/V173/07C	Proportional Building	Day Time	dB(A)Leq	IS 4758	65.3	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1392C/51/V194/04

Reporting Date: 05/10/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 30/09/2023  
Sample Description: Workzone Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN0/1392C/51/V194/04A	DISP CCM Area	Day Time	dB(A)Leq	IS 4758	56.7	85
2	Lab/PN/1392C/51/V194/04B	SDP 1 Annealing Furnace Control Room	Day Time	dB(A)Leq	IS 4758	68.2	85
3	Lab/PN/1392C/51/V194/04C	ETP	Day Time	dB(A)Leq	IS 4758	70.5	85
4	Lab/PN/1392C/51/V194/04C	Pickling & Passivation	Day Time	dB(A)Leq	IS 4758	65.2	85
5	Lab/PN/1392C/51/V194/04D	FL-7 Zinc Coating Control Room	Day Time	dB(A)Leq	IS 4758	72.9	85
6	Lab/PN/1392C/51/V194/04E	Mould shop	Day Time	dB(A)Leq	IS 4758	72.3	85
7	Lab/PN/1392C/51/V194/04F	Shot Blasting	Day Time	dB(A)Leq	IS 4758	75.2	85
8	Lab/PN/1392C/51/V194/04H	Spiral ID/OD	Day Time	dB(A)Leq	IS 4758	66.8	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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

Page No : 1/1

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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 : 16-09-2023

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	2.29 mg/m <sup>3</sup> 2.98 mg/m <sup>3</sup>	2.64 mg/m <sup>3</sup>	40 mg/m <sup>3</sup>	IS 5182 (Part-10)				
		RSPM	Handy Sampler	2	2.45 mg/m <sup>3</sup> 2.26 mg/m <sup>3</sup>	2.36 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	3	-	<i>P</i>	Pankil
		Noise	Noise Meter	2	71.3 dB 69.2 dB	70.3 dB	85 dB	IS 4758				



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*P. B. Sanyal*

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Form No. 37

(Prescribed under Rule 12-B)

**Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).**  
 1 Name of the Department/Plant: **Blast Furnace-2 Cast House at JINDAL SAW LIMITED, Samnaghogha. (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 : 16-09-2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Cast House	CO	CO Analyzer	2	2.86 mg/m <sup>3</sup> 3.09 mg/m <sup>3</sup>	2.98 mg/m <sup>3</sup>	40 mg/m <sup>3</sup>	IS 5182(Part-10)	3	-	<i>P</i>	Pankil
				2	2.76 mg/m <sup>3</sup> 2.46 mg/m <sup>3</sup>	2.61 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600				
		Noise	Noise Meter	2	71.2 dB 68.7 dB	69.9 dB	85 dB	IS 4758				



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*P. B. Pate*

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Form No. 37

(Prescribed under Rule 12-B)

**Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).**  
 1 Name of the Department/Plant.: Sinter Plant-1 first floor at JINDAL SAW LIMITED, Samaghoghha. (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 : 19-09-2023

Sr. No	Location Operation monitored	Identified Contaminant	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
		CO	CO Analyzer	2	2.98 mg/m <sup>3</sup> 2.52 mg/m <sup>3</sup>	2.75 mg/m <sup>3</sup>	40 mg/m <sup>3</sup>	IS 5182 (Part-10)				
1	Sinter -1 First Floor	RSPM	Handy Sampler	2	2.39 mg/m <sup>3</sup> 2.23 mg/m <sup>3</sup>	2.31 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	4	-	P	Pankil
		Noise	Noise Meter	2	68.8 72.7	70.7 dB	85 dB	IS 4758				



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P. B. P. K.

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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.: **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 : 12.09.2023

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 <sup>3</sup> 2.75 mg/m <sup>3</sup>	2.64 mg/m <sup>3</sup>	40 mg/m <sup>3</sup>	IS 5182 (Part-10)				
1	Sinter -2 First Floor	RSPM	Handy Sampler	2	2.27 mg/m <sup>3</sup> 2.01 mg/m <sup>3</sup>	2.14 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	4	-	<i>P</i>	Pankil
		Noise	Noise Meter	2	70.3 dB 69.7 dB	70 dB	85 dB	IS 4758				



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*P. B. Pankil*

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Form No. 37

(Prescribed under Rule 12-B)

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

- 1 Name of the Department/Plant.: **Pipe Plant at JINDAL SAW LIMITED, Samaghogha. (GPCB ID:18036)**
- 2 Raw materials, by products and finished products involved in the process. **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	4.3 mg/m <sup>3</sup> 4.9 mg/m <sup>3</sup>	4.6 mg/m <sup>3</sup>	40 mg/m <sup>3</sup>	IS 5182 (Part-11)				
		RSPM	Handy Sampler	2	2.34 mg/m <sup>3</sup> 1.67 mg/m <sup>3</sup>	2.0 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	3		<i>P</i>	Pankil
		Noise	Noise Meter	2	70.7 dB 64.6 dB	67.7 dB	85 dB	IS 4758				



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*P. D. Patel*

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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 : 25-09-2023

Sr. No	Location Operation monitored	Identified Contaminante	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
1	DISP Bitumin Area	RSPM	Handy Sampler	2	2.76 mg/m <sup>3</sup> 2.38 mg/m <sup>3</sup>	2.57 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	4	-		Pankil
				2	71.6 dB 69.3 dB	70.5 dB	85 dB					
		2		VOC	Low Volume Pump	2	3.8 mg/m <sup>3</sup> 4.4 mg/m <sup>3</sup>	4.1 mg/m <sup>3</sup>	-	IS 5182 Part-11		



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

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

Date of Sampling : 26-09-2023

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	2.18 mg/m <sup>3</sup> 1.92 mg/m <sup>3</sup>	2.05 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	4	-		Pankil
		Noise	Noise Meter	2	71.6 dB 68.2 dB	69.9 dB	85 dB	IS 4758				



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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 : 28-09-2023

Sr. No	Location Operation monitored	Identified Contaminante	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	3.09 mg/m <sup>3</sup> 2.78 mg/m <sup>3</sup>	2.94 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	4	-	<i>P</i>	Pankil	
				2	71.8 dB 68.4 dB	70.1 dB	85 dB						IS 4758
		HF	Handy Sampler	2	BQL BQL	BQL	BQL	2.5 mg/m <sup>3</sup>	NIOSH-7903	4	-	<i>P</i>	Pankil
				2	BQL BQL	BQL	5 mg/m <sup>3</sup>	NIOSH-7903					



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*P.B. Patel*

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

Date of Sampling : 28-09-2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
1	DISP CCM Area	RSPM	Handy Sampler	2	2.49 mg/m <sup>3</sup> 1.72 mg/m <sup>3</sup>	2.11 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	4	-	<i>P</i>	Pankil
		Noise	Noise Meter	2	71.8 dB 67.6 dB	69.7 dB	85 dB	IS 4758				



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*P.B.A*

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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. **PE,Epoxy Powder & PE/Epoxy Coating Pipe**
- 3 Particulars of sampling

Date of Sampling : 29-09-2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Shot Blasting	RSPM	Handy Sampler	2	2.97 mg/m <sup>3</sup> 2.74 mg/m <sup>3</sup>	2.86 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	4	-		Pankil
		Noise	Noise Meter	2	71.2 dB 67.3 dB	69.3 dB	85 dB	IS 4758				



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Form No. 37

(Prescribed under Rule 12-B)

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

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

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

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

Date of Sampling : 20-09-2023

Sr. No	Location/ Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)		Reference Method	Number of workers exposed at the location being monitored	Remark	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average	LEL (%)	(mg/m <sup>3</sup> )					
1	LPG YARD	LEL	Gas Detector	02	...	ND	...	2.1 (Propane)	...	LEL monitor	-	Pankil	
		RSPM	Handy Sampler	02	2.13 mg/m <sup>3</sup> 2.61 mg/m <sup>3</sup>	2.37 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	3	-	P		
		Noise	Noise Meter	02	71.2 dB 69.7 dB	70.5 dB	85 dB	IS 4758					

GO GREEN MECHANISMS PVT. LTD.



P-B. Pankil

AUTHORIZED SIGNATORY

# **Wastewater Report**

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1256C/56/V182/01

Reporting Date : 25/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1256C/56/V182/01	Sampling Date:	16/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2023
Sample Type:	Waste Water	Analysis Start Date:	19/09/2023
Sample Description:	STP Outlet	Analysis End Date:	25/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.46	-	IS 3025- Part 11	6.5 to 8.5
2	Total Dissolved Solids	1220.00	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	35.00	mg/L	APHA 23rd Edn 5220 B	50
5	BOD at 20°C – 5 Days	10.00	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

*Sachi*

Analyzed By  
Sachi Patel



*P.B. Patel*

Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1256C/56/V182/01A

Reporting Date : 25/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

### SAMPLE DETAILS

Lab ID:	Lab/PN/1256C/56/V182/01	Sampling Date:	16/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2023
Sample Type:	Waste Water	Analysis Start Date:	19/09/2023
Sample Description:	STP Outlet	Analysis End Date:	25/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

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

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

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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1256C/56/V182/02

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date : 25/09/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN/1256C/56/V182/02	Sampling Date:	16/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2023
Sample Type:	Waste Water	Analysis Start Date:	19/09/2023
Sample Description:	STP Inlet	Analysis End Date:	25/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.38	-	IS 3025- Part 11	-
2	Total Dissolved Solids	1082.00	mg/L	APHA 23rd Edn 2540 C	-
3	Total Suspended Solids	104.00	mg/L	APHA 23rd Edn 2540 D	-
4	Chemical Oxygen Demand	105.00	mg/L	APHA 23rd Edn 5220 B	-
5	BOD at 20°C – 5 Days	30	mg/L	APHA 23rd Edn 5210 B	-

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

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

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1256C/56/V182/03

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date : 25/09/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN/1256C/56/V182/03	Sampling Date:	16/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2023
Sample Type:	Waste Water	Analysis Start Date:	19/09/2023
Sample Description:	ETP Outlet	Analysis End Date:	25/09/2023
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	7.62	-	IS 3025- Part 11	6.5 to 8.5
2	Temperature °C	26.7	°C	APHA 23rd Edn 2550 B	40
3	Color	BQL (QL=1)	CU	IS 3025- Part 4	100
4	Iron as Fe	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	3
5	Sulphate	103.79	mg/L	APHA 23rd Edn 4500 SO4 E	1000
6	Fluoride	0.66	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	1002.00	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	429.87	mg/L	IS 3025- Part 32	600
12	Chemical Oxygen Demand	50.00	mg/L	APHA 23rd Edn 5220 B	100

Plant Name : Pipe Plant; GPCB ID: 18036

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

*Sachi*

Analyzed By  
Sachi Patel



*P.B. Patel*

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Payal Patel

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Report Number: GGMPL/PN/1256C/56/V182/03

Reporting Date : 25/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1256C/56/V182/03	Sampling Date:	16/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2023
Sample Type:	Waste Water	Analysis Start Date:	19/09/2023
Sample Description:	ETP Outlet	Analysis End Date:	25/09/2023
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	2.24	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	15.00	mg/L	IS 3025- Part 44	30
16	Sodium	0.0139	%	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	2.77	-	GGMPL/SOP/W/52	26

Plant Name : Pipe Plant; GPCB ID: 18036

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

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1256C/56/V182/04

Reporting Date : 25/09/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN/1256C/56/V182/04	Sampling Date:	16/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2023
Sample Type:	Waste Water	Analysis Start Date:	19/09/2023
Sample Description:	BF SGP	Analysis End Date:	25/09/2023
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	7.37	-	IS 3025- Part 11	6.5 to 8.5
2	Temperature °C	26.7	°C	APHA 23rd Edn 2550 B	40
3	Color	5	CU	IS 3025- Part 4	100
4	Sulphate	291.42	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	1062.00	mg/L	APHA 23rd Edn 2540 C	2100
7	Total Suspended Solids	28.00	mg/L	APHA 23rd Edn 2540 D	100
8	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
9	Chloride	259.92	mg/L	IS 3025- Part 32	600
10	Chemical Oxygen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	100
11	Ammonical Nitrogen	14.28	mg/L	APHA 23rd Edn 4500 NH3 C	50
12	BOD at 27 o C for 3 days	24	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

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Report Number: GGMPL/PN/1256C/56/V182/05

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415

Reporting Date : 25/09/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN/1256C/56/V182/05	Sampling Date:	16/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2023
Sample Type:	Waste Water	Analysis Start Date:	19/09/2023
Sample Description:	ETP Inlet	Analysis End Date:	25/09/2023
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	4.07	-	IS 3025- Part 11	-
2	Temperature °C	26.3	°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	19.66	mg/L	APHA 23rd Edn 4500 SO4 E	-
6	Fluoride	0.45	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	284.00	mg/L	APHA 23rd Edn 2540 C	-
9	Total Suspended Solids	17.00	mg/L	APHA 23rd Edn 2540 D	-
10	Oil and Grease	2.80	mg/L	IS 3025- Part 39	-
11	Chloride	39.99	mg/L	IS 3025- Part 32	-
12	Chemical Oxygen Demand	55.00	mg/L	APHA 23rd Edn 5220 B	-

Plant Name: Pipe Plant; GPCB ID : 18036

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

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Report Number: GGMP/L/PN/1256C/56/V182/05

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date : 25/09/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN/1256C/56/V182/05	Sampling Date:	16/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2023
Sample Type:	Waste Water	Analysis Start Date:	19/09/2023
Sample Description:	ETP Inlet	Analysis End Date:	25/09/2023
Sample Quantity:	5.5 L	Sampling Method:	GGMP/L/WI/27C
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Ammonical Nitrogen	1.68	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	16	mg/L	IS 3025- Part 44	-
16	Sodium	0.0087	%	APHA 23rd Edn 3120 B	-
17	Zinc as Zn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	-
18	Sodium Absorption Ratio	3.24	-	GGMP/L/SOP/W/52	-

Plant Name: Pipe Plant; GPCB ID : 18036

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

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