

**Report Issued to:**

**JINDAL SAW LIMITED**

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

**ENVIRONMENTAL MONTHLY MONITORING REPORT**

**MONTH OF JUNE'23**



**Go Green Mechanisms Pvt. Ltd.**

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

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# **Ambient Air Report**

## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN455C/51/V109/01

Reporting Date: 09/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN455C/51/V109/01	Sampling Start Date:	02/06/2023 (09:48 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/06/2023 (09:48 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	05/06/2023
Sample Description:	Old Colony	Analysis start- End Date:	06/06/2023-08/06/2023
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)	63.56	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.62	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.31	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	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN455C/51/V109/02

Reporting Date: 09/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN455C/51/V109/02	Sampling Start Date:	02/06/2023 (11:16 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/06/2023 (11:16 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	05/06/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	06/06/2023-08/06/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.92	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.22	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.09	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/ PN455C/51/V109/03

Reporting Date: 09/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN455C/51/V109/03	Sampling Start Date:	02/06/2023 (11:37 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/06/2023 (11:37 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	05/06/2023
Sample Description:	STP	Analysis start- End Date:	06/06/2023-08/06/2023
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)	30.83	µg/m3	GGMP/ SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.59	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.03	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMP/ SOP/MP/01	NS
7	Average Wind Speed	3.7	Km/Hrs	GGMP/ SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/ PN455C/51/V109/04

Reporting Date: 09/06/2023

**JINDAL SAW LIMITED**

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN455C/51/V109/04	Sampling Start Date:	02/06/2023 (10:20 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/06/2023 (10:20 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	05/06/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	06/06/2023-08/06/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.56	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.38	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.75	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	3.7	Km/Hrs	GGMP/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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

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Reporting Date: 13/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN471C/51/V110/01	Sampling Start Date:	06/06/2023 (09:41 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	07/06/2023 (09:41 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	09/06/2023
Sample Description:	Old Colony	Analysis start- End Date:	09/06/2023-12/06/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C


Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.57	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.52	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.67	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.5	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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

  
Analyzed By  
Sachi Patel



  
Authorized Signatory  
Payal Patel

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Reporting Date: 13/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN471C/51/V110/02	Sampling Start Date:	06/06/2023 (10:05 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	07/06/2023 (10:05 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	09/06/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	09/06/2023-12/06/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.35	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.60	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.13	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.5	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN471C/51/V110/03

Reporting Date: 13/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN471C/51/V110/03	Sampling Start Date:	06/06/2023 (10:36 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	07/06/2023 (10:36 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	09/06/2023
Sample Description:	STP	Analysis start- End Date:	09/06/2023-12/06/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.19	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.96	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.75	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.5	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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

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Reporting Date: 13/06/2023

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Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN471C/51/V110/04	Sampling Start Date:	06/06/2023 (11:01 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	07/06/2023 (11:01 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	09/06/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	09/06/2023-12/06/2023
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)	61.43	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)	13.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.50	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.5	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN495C/51/V113/01

Reporting Date: 16/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN495C/51/V113/01	Sampling Start Date:	09/06/2023 (09:08 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	10/06/2023 (09:08 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	12/06/2023
Sample Description:	Old Colony	Analysis start- End Date:	12/06/2023-15/06/2023
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)	65.68	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.15	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.39	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN495C/51/V113/02

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415

Reporting Date: 16/06/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN495C/51/V113/02	Sampling Start Date:	09/06/2023 (10:16 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	10/06/2023 (10:16 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	12/06/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	12/06/2023-15/06/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.38	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)	13.23	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.41	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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

Sachi  
Analyzed By  
Sachi Patel



P. B. Pate  
Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN495C/51/V113/03

Reporting Date: 16/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN495C/51/V113/03	Sampling Start Date:	09/06/2023 (10:47 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	10/06/2023 (10:47 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	12/06/2023
Sample Description:	STP	Analysis start- End Date:	12/06/2023-15/06/2023
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)	62.13	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.29	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.37	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	2.7	Km/Hrs	GGMP/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/ PN495C/51/V113/04

Reporting Date: 16/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN495C/51/V113/04	Sampling Start Date:	09/06/2023 (10:59 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	10/06/2023 (10:59 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	12/06/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	12/06/2023-15/06/2023
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)	65.51	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.09	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.26	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	2.7	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/ PN519C/51/V115/01

Reporting Date: 17/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN519C/51/V115/01	Sampling Start Date:	12/06/2023 (9:32 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/06/2023 (9:32 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	15/06/2023
Sample Description:	Old Colony	Analysis start- End Date:	15/06/2023-17/06/2023
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)	65.23	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.35	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.15	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	SSE	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	10.4	Km/Hrs	GGMP/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN519C/51/V115/02

Reporting Date: 17/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN519C/51/V115/02	Sampling Start Date:	12/06/2023 (9:59 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/06/2023 (9:59 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	15/06/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	15/06/2023-17/06/2023
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)	63.78	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.30	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.94	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	SSE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	10.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/ PN519C/51/V115/03

Reporting Date: 17/06/2023

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



### SAMPLE DETAILS

Lab ID:	Lab/PN519C/51/V115/03	Sampling Start Date:	12/06/2023 (10:27 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/06/2023 (10:27 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	15/06/2023
Sample Description:	STP	Analysis start- End Date:	15/06/2023-17/06/2023
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)	61.94	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.64	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.66	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	SSE	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	10.4	Km/Hrs	GGMP/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN519C/51/V115/04

Reporting Date: 17/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN519C/51/V115/04	Sampling Start Date:	12/06/2023 (11:02 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/06/2023 (11:02 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	15/06/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	15/06/2023-17/06/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.29	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.17	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.38	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	SSE	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	10.4	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN572C/51/V117/02

Reporting Date: 27/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN572C/51/V117/02	Sampling Start Date:	20/06/2023 (10:02 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2023 (10:02 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	23/06/2023-26/06/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.18	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.24	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.71	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/ PN572C/51/V117/03

Reporting Date: 27/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN572C/51/V117/03	Sampling Start Date:	20/06/2023 (10:27 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2023 (10:27 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2023
Sample Description:	STP	Analysis start- End Date:	23/06/2023-26/06/2023
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)	65.76	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMP/ SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.60	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.41	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMP/ SOP/MP/01	NS
7	Average Wind Speed	4.3	Km/Hrs	GGMP/ SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patil*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN572C/51/V117/04

Reporting Date: 27/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN572C/51/V117/04	Sampling Start Date:	20/06/2023 (10:59 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2023 (10:59 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	23/06/2023-26/06/2023
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)	62.77	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)	15.82	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.26	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	4.3	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/ PN613C/51/V119/01

Reporting Date: 30/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN613C/51/V119/01	Sampling Start Date:	23/06/2023 (09:58 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/06/2023 (09:58 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	26/06/2023
Sample Description:	Old Colony	Analysis start- End Date:	26/06/2023-29/06/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.45	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.96	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.99	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	NW	Direction	GGMP/SOP/MP/01	NS
7	Average Wind Speed	3.1	Km/Hrs	GGMP/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN613C/51/V119/02

Reporting Date: 30/06/2023

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



### SAMPLE DETAILS

Lab ID:	Lab/PN613C/51/V119/02	Sampling Start Date:	23/06/2023 (10:19 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/06/2023 (10:19 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	26/06/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	26/06/2023-29/06/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.61	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.12	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.60	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.1	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN613C/51/V119/03

Reporting Date: 30/06/2023

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



### SAMPLE DETAILS

Lab ID:	Lab/PN613C/51/V119/03	Sampling Start Date:	23/06/2023 (10:41 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/06/2023 (10:41 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	26/06/2023
Sample Description:	STP	Analysis start- End Date:	26/06/2023-29/06/2023
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)	61.22	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.71	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.1	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN613C/51/V119/04

Reporting Date: 30/06/2023

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



### SAMPLE DETAILS

Lab ID:	Lab/PN613C/51/V119/04	Sampling Start Date:	23/06/2023 (11:16 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/06/2023 (11:16 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	26/06/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	26/06/2023-29/06/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.13	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.39	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.26	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	3.1	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN637C/51/V121/01

Reporting Date: 01/07/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN637C/51/V121/01	Sampling Start Date:	26/06/2023 (09:36 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2023 (09:36 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2023
Sample Description:	Old Colony	Analysis start- End Date:	28/06/2023-01/07/2023
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)	65.23	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.76	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.13	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	9.0	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN637C/51/V121/02

Reporting Date: 01/07/2023

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



### SAMPLE DETAILS

Lab ID:	Lab/PN637C/51/V121/02	Sampling Start Date:	26/06/2023 (09:59 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2023 (09:59 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	28/06/2023-01/07/2023
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)	29.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.47	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.34	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	9.0	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN637C/51/V121/03

Reporting Date: 01/07/2023

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



### SAMPLE DETAILS

Lab ID:	Lab/PN637C/51/V121/03	Sampling Start Date:	26/06/2023 (10:16AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2023 (10:16AM)
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2023
Sample Description:	STP	Analysis start- End Date:	28/06/2023-01/07/2023
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)	59.61	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.24	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.47	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	9.0	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN637C/51/V121/04

Reporting Date: 01/07/2023

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



### SAMPLE DETAILS

Lab ID:	Lab/PN637C/51/V121/04	Sampling Start Date:	26/06/2023 (10:31 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2023 (10:31 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	28/06/2023-01/07/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.42	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)	13.23	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.33	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	9.0	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN667C/51/V124/01

Reporting Date: 03/07/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN667C/51/V124/01	Sampling Start Date:	29/06/2023 (09:59 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/06/2023 (09:59 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	01/07/2023
Sample Description:	Old Colony	Analysis start- End Date:	01/07/2023-03/07/2023
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)	62.84	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)	9.74	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.47	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	1.9	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN667C/51/V124/02

Reporting Date: 03/07/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN667C/51/V124/02	Sampling Start Date:	29/06/2023 (10:17 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/06/2023 (10:17 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	01/07/2023
Sample Description:	Spiral-02 Pipe Storage Yard	Analysis start- End Date:	01/07/2023-03/07/2023
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)	57.98	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)	13.35	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.69	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	1.9	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN667C/51/V124/03

Reporting Date: 03/07/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN667C/51/V124/03	Sampling Start Date:	29/06/2023 (10:39 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/06/2023 (10:39 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	01/07/2023
Sample Description:	STP	Analysis start- End Date:	01/07/2023-03/07/2023
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)	62.51	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)	12.99	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.88	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	1.9	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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/PN667C/51/V124/04

Reporting Date: 03/07/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN667C/51/V124/04	Sampling Start Date:	29/06/2023 (11:06 AM)
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/06/2023 (11:06 AM)
Sample Type:	Ambient Air	Sample Receipt Date:	01/07/2023
Sample Description:	Vikaspuram	Analysis start- End Date:	01/07/2023-03/07/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.39	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.62	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.78	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	BQL (QL=0.01)	mg/m3	IS 5182- Part 10	4
6	Wind Direction	NNW	Direction	GGMPL/SOP/MP/01	NS
7	Average Wind Speed	1.9	Km/Hrs	GGMPL/SOP/MP/01	NS

AMBIENT AIR QUALITY REPORT FOR THE MONTH-JUNE.

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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patil*

Authorized Signatory  
Payal Patel

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**Fugitive  
Monitoring  
Report**

## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN582C/51/V118/01

Reporting Date: 27/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN582C/51/V118/01	Sampling Start Date:	21/06/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2023
Sample Type:	Fugitive	Sample Receipt Date:	23/06/2023
Sample Description:	BF-1 De Dusting	Analysis start- End Date:	23/06/2023-26/06/2023
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	23.57	µg/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	12.83	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)	2167.61	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. Puy*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN487C/51/V112/01

Reporting Date: 14/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN487C/51/V112/01	Sampling Start Date:	08/06/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/06/2023
Sample Type:	Fugitive	Sample Receipt Date:	10/06/2023
Sample Description:	BF -1 Ground Hooper	Analysis start- End Date:	10/06/2023-13/06/2023
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	30.93	µg/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	19.42	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)	1885.98	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

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN626C/51/V120/07

Reporting Date: 01/07/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN626C/51/V120/07	Sampling Start Date:	24/06/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/06/2023
Sample Type:	Fugitive	Sample Receipt Date:	27/06/2023
Sample Description:	BF-2 De Dusting	Analysis start- End Date:	27/06/2023-01/07/2023
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	26.51	µg/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	14.97	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)	2082.36	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



*A. B. Patel*

Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGML/PN659C/51/V123/01

Reporting Date: 03/07/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN659C/51/V123/01	Sampling Start Date:	28/06/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2023
Sample Type:	Fugitive	Sample Receipt Date:	30/06/2023
Sample Description:	BF-2 Cast House	Analysis start- End Date:	30/06/2023-03/07/2023
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	23.57	µg/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	12.95	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)	2187.24	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

*P. Parekh*

Analyzed By  
Pooja Parekh



*P. B. Patel*

Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN582C/51/V118/02

Reporting Date: 27/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN582C/51/V118/02	Sampling Start Date:	21/06/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2023
Sample Type:	Fugitive	Sample Receipt Date:	23/06/2023
Sample Description:	Sinter RMH Yard	Analysis start- End Date:	23/06/2023-26/06/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	8
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	24.30	µg/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	19.24	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)	2227.60	µg/m <sup>3</sup>	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/PN626C/51/V120/08

Reporting Date: 01/07/2023

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



### SAMPLE DETAILS

Lab ID:	Lab/PN626C/51/V120/08	Sampling Start Date:	24/06/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/06/2023
Sample Type:	Fugitive	Sample Receipt Date:	27/06/2023
Sample Description:	Sinter-02 Ground Hopper	Analysis start- End Date:	27/06/2023-01/07/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	8
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	21.36	µg/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	12.83	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)	1825.29	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 : GGMPL/PN644C/51/V122/03

Reporting Date: 01/07/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN644C/51/V122/03	Sampling Start Date:	27/06/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2023
Sample Type:	Fugitive	Sample Receipt Date:	29/06/2023
Sample Description:	SDP-2 Induction	Analysis start- End Date:	29/06/2023-01/07/2023
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	23.57	µg/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	14.87	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)	1277.28	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/PN644C/51/V122/04

Reporting Date: 01/07/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN644C/51/V122/04	Sampling Start Date:	27/06/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2023
Sample Type:	Fugitive	Sample Receipt Date:	29/06/2023
Sample Description:	SDP-2 CCM Area	Analysis start- End Date:	29/06/2023-01/07/2023
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	25.78	µg/m <sup>3</sup>	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO <sub>2</sub> )	12.74	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)	1713.04	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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# **Stack Monitoring Report**



## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN582C/51/V118/05

Reporting Date: 27/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN582C/51/V118/05	Sampling Date:	21/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2023
Sample Type:	Stack	Analysis start- End Date:	23/06/2023-26/06/2023
Stack Height & Dia (m):	45 & 1.4	Stack Temperature (°C):	143
Stack Attached To:	Boiler-I	Stack gas velocity (m/sec):	6.30
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.9518

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	4.94	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Oxides of Nitrogen	15.04	mg/Nm <sup>3</sup>	GGMP/SOP/SEA/68	25
3	Sulphur Dioxide	7.85	mg/Nm <sup>3</sup>	GGMP/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*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN582C/51/V118/06

Reporting Date: 27/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN582C/51/V118/06	Sampling Date:	21/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2023
Sample Type:	Stack	Analysis start- End Date:	23/06/2023-26/06/2023
Stack Height & Dia (m):	45 & 1.4	Stack Temperature (°C):	147
Stack Attached To:	Boiler-II	Stack gas velocity (m/sec):	6.85
Fuel Used:	BFG	Volume of Air Sampled in NM3:	1.8093

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	3.54	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	10.47	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*

Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN667C/51/V124/07

Reporting Date: 03/07/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN667C/51/V124/07	Sampling Date:	29/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/07/2023
Sample Type:	Stack	Analysis start- End Date:	01/07/2023-03/07/2023
Stack Height & Dia (m):	65 & 1.4	Stack Temperature (°C):	150
Stack Attached To:	Stove Stack	Stack gas velocity (m/sec):	9.99
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.6534

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	4.59	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	18.32	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*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN688C/51/V125/01

Reporting Date: 03/07/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

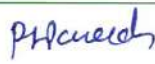
### SAMPLE DETAILS

Lab ID:	Lab/PN688C/51/V125/01	Sampling Date:	30/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/07/2023
Sample Type:	Stack	Analysis start- End Date:	01/07/2023-03/07/2023
Stack Height & Dia (m):	45 & 1.2	Stack Temperature (°C):	157
Stack Attached To:	DG Set (3240 KVA)	Stack gas velocity (m/sec):	10.14
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.659

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	37.04	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Sulphur Dioxides	16	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	11	ppm	GGMPL/SOP/SEA/68	50

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

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

  
Analyzed By  
Pooja Parekh



  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN455C/51/V109/05

Reporting Date: 09/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN455C/51/V109/05	Sampling Date:	02/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/06/2023
Sample Type:	Stack	Analysis start- End Date:	06/06/2023-08/06/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	127
Stack Attached To:	Sinter Furnace 1	Stack gas velocity (m/sec):	10.77
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.744

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	38.44	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Sulphur Dioxides	10	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	15	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN455C/51/V109/07

Reporting Date: 09/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN455C/51/V109/07	Sampling Date:	02/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/06/2023
Sample Type:	Stack	Analysis start- End Date:	06/06/2023-08/06/2023
Stack Height & Dia (m):	36.08 & 0.8	Stack Temperature (°C):	40
Stack Attached To:	Secondary Mixture Drum	Stack gas velocity (m/sec):	4.05
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8193

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	42.48	mg/Nm <sup>3</sup>	IS 11255- Part 1	150

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

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

*Sachi*

Analyzed By  
Sachi Patel



*P.B.Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN471C/51/V110/06

Reporting Date: 13/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN471C/51/V110/06	Sampling Date:	06/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	09/06/2023
Sample Type:	Stack	Analysis start- End Date:	09/06/2023-12/06/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	142
Stack Attached To:	Sinter Furnace 2	Stack gas velocity (m/sec):	11.34
Fuel Used:	BFG	Volume of Air Sampled in NM3:	0.7514

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	30.88	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Sulphur Dioxides	9	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	16	ppm	GGMPL/SOP/SEA/68	50

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

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

*Sachi*

Analyzed By  
Sachi Patel



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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN667C/51/V124/06

Reporting Date: 03/07/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN667C/51/V124/06	Sampling Date:	29/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/07/2023
Sample Type:	Stack	Analysis start- End Date:	01/07/2023-03/07/2023
Stack Height & Dia (m):	36.08 & 0.8	Stack Temperature (°C):	39
Stack Attached To:	Secondary Mixture Dum	Stack gas velocity (m/sec):	3.91
Fuel Used:	-	Volume of Air Sampled in NM3:	0.7984

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	38.58	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/PN487C/51/V112/03

Reporting Date: 14/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN487C/51/V112/03	Sampling Date:	08/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/06/2023
Sample Type:	Stack	Analysis start- End Date:	10/06/2023-13/06/2023
Stack Height & Dia (m):	30 & 1.0	Stack Temperature (°C):	45
Stack Attached To:	Mg Treatment	Stack gas velocity (m/sec):	5.78
Fuel Used:	-	Volume of Air Sampled in NM3:	1.1521

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	28.38	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*

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Payal Patel

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Report Number: GGMPL/PN487C/51/V112/05

Reporting Date: 14/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN487C/51/V112/05	Sampling Date:	08/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/06/2023
Sample Type:	Stack	Analysis start- End Date:	10/06/2023-13/06/2023
Stack Height & Dia (m):	45 & 1.5	Stack Temperature (°C):	84
Stack Attached To:	Annealing Furnace-III	Stack gas velocity (m/sec):	6.28
Fuel Used:	BFG/LPG	Volume of Air Sampled in NM3:	1.0585

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	12.28	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Sulphur Dioxides	15	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	25	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

*Sachi*  
Analyzed By  
Sachi Patel



*PB Patel*  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN613C/51/V119/05

Reporting Date: 30/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN613C/51/V119/05	Sampling Date:	23/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/06/2023
Sample Type:	Stack	Analysis start- End Date:	26/06/2023-29/06/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	38
Stack Attached To:	Zn Coating-1	Stack gas velocity (m/sec):	5.56
Fuel Used:	-	Volume of Air Sampled in NM3:	1.1066

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	15.27	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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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN626C/51/V120/09

Reporting Date: 01/07/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN626C/51/V120/09	Sampling Date:	24/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/06/2023
Sample Type:	Stack	Analysis start- End Date:	27/06/2023-01/07/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	35
Stack Attached To:	Pickling & Passivation	Stack gas velocity (m/sec):	8.42
Fuel Used:	-	Volume of Air Sampled in NM3:	0.7496

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	6.67	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

*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/PN626C/51/V120/09A

Reporting Date: 01/07/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415

### SAMPLE DETAILS

Lab ID:	Lab/PN626C/51/V120/09	Sampling Date:	24/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/06/2023
Sample Type:	Stack	Analysis start- End Date:	27/06/2023-01/07/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	35
Stack Attached To:	Pickling & Passivation	Stack gas velocity (m/sec):	8.42
Fuel Used:	-	Volume of Air Sampled in NM3:	0.7496

Sr.No	Parameters*	Results	Unit	Test Method	Norms
1	Hydrogen Fluoride	1.07	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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN626C/51/V120/10

Reporting Date: 01/07/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN626C/51/V120/10	Sampling Date:	24/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/06/2023
Sample Type:	Stack	Analysis start- End Date:	27/06/2023-01/07/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	34
Stack Attached To:	Scrubber For Pilger	Stack gas velocity (m/sec):	5.35
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0675

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	6.74	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Oxides of Nitrogen	10.0	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

*Sachi!*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN626C/51/V120/10A

Reporting Date: 01/07/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415

### SAMPLE DETAILS

Lab ID:	Lab/PN626C/51/V120/10	Sampling Date:	24/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/06/2023
Sample Type:	Stack	Analysis start- End Date:	27/06/2023-01/07/2023
Stack Height & Dia (m):	15 & 0.6	Stack Temperature (°C):	34
Stack Attached To:	Scrubber For Pilger	Stack gas velocity (m/sec):	5.35
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0675

Sr.No	Parameters*	Results	Unit	Test Method	Norms
1	Hydrogen Fluoride	1.19	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN659C/51/V123/02

Reporting Date: 03/07/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN659C/51/V123/02	Sampling Date:	28/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2023
Sample Type:	Stack	Analysis start- End Date:	30/06/2023-03/07/2023
Stack Height & Dia (m):	32 & 1.5	Stack Temperature (°C):	81
Stack Attached To:	Annealing Furnace-1	Stack gas velocity (m/sec):	5.95
Fuel Used:	BFG/LPG	Volume of Air Sampled in NM3:	1.055

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	12.80	mg/Nm <sup>3</sup>	IS 11255- Part 1	150
2	Sulphur Dioxides	14	ppm	GGMPL/SOP/SEA/68	150
3	Oxides of Nitrogen	21	ppm	GGMPL/SOP/SEA/68	50

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

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

*P. Parekh*

Analyzed By  
Pooja Parekh



*P. B. Patel*

Authorized Signatory  
Payal Patel

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**Bag House  
Performance  
Evaluation  
Report**

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN582C/51/V118/04

Reporting Date: 27/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN582C/51/V118/04	Sampling Date:	21/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2023
Sample Type:	Stack	Analysis start- End Date:	23/06/2023-26/06/2023
Stack Height & Dia (m):	35 & 1.5	Stack Temperature (°C):	38
Stack Attached To:	De Dusting Stack-1	Stack gas velocity (m/sec):	12.0
Fuel Used:	-	Volume of Air Sampled in NM3:	1.0849

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2208.22	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	5.32	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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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/PN582C/51/V118/04	De-dusting Stack-1	99.8
Plant Name: Blast Furnace -1; GPCB ID: 18037 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. Poo*  
AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN452C/51/V108/02

Reporting Date: 08/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN452C/51/V108/02	Sampling Date:	01/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/06/2023
Sample Type:	Stack	Analysis start- End Date:	05/06/2023-07/06/2023
Stack Height & Dia (m):	40.5 & 1.5	Stack Temperature (°C):	39
Stack Attached To:	De-dusting Stack-2	Stack gas velocity (m/sec):	12.57
Fuel Used:	-	Volume of Air Sampled in NM3:	1.1301

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2578.71	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	27.69	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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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/PN452C/51/V108/02	De-Dusting Stack-2	98.9
Plant Name: Blast Furnace 2; GPCB ID: 29026 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. Roy*  
AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN455C/51/V109/06

Reporting Date: 09/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN455C/51/V109/06	Sampling Date:	02/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/06/2023
Sample Type:	Stack	Analysis start- End Date:	06/06/2023-08/06/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	136
Stack Attached To:	Sinter Furnace 1	Stack gas velocity (m/sec):	16.63
Fuel Used:	BFG	Volume of Air Sampled in NM3:	1.117

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	3683.15	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	38.44	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

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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/PN455C/51/V109	Sinter Furnace-1	98.9
Plant Name: Sinter Furnace-1; GPCB ID: 35456 / APCM-ESP/Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. Patel*  
AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN471C/51/V110/07

Reporting Date: 13/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN471C/51/V110/07	Sampling Date:	06/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	09/06/2023
Sample Type:	Stack	Analysis start- End Date:	09/06/2023-12/06/2023
Stack Height & Dia (m):	50 & 1.5	Stack Temperature (°C):	149
Stack Attached To:	Sinter Furnace 2	Stack gas velocity (m/sec):	17.54
Fuel Used:	BFG	Volume of Air Sampled in NM3:	1.177

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1697.54	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	30.88	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

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/471C/51/V110/07	Sinter Furnace 2	97.8
Plant Name: Sinter Plant 2; GPCB ID: 29017 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. Patil*  
AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN487C/51/V112/04

Reporting Date: 14/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN487C/51/V112/04	Sampling Date:	08/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/06/2023
Sample Type:	Stack	Analysis start- End Date:	10/06/2023-13/06/2023
Stack Height & Dia (m):	30 & 1.0	Stack Temperature (°C):	47
Stack Attached To:	Mg Treatment	Stack gas velocity (m/sec):	10.18
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8908

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2486.87	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	28.38	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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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/PN487C/51/V112/04	Mg Treatment	98.9
Plant Name: Pipe Plant; GPCB ID: 18036 / APMC-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. Patil*  
AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN495C/51/V113/06

Reporting Date: 16/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN495C/51/V113/06	Sampling Date:	09/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	12/06/2023
Sample Type:	Stack	Analysis start- End Date:	12/06/2023-15/06/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	38
Stack Attached To:	Zn Coating-6	Stack gas velocity (m/sec):	10.53
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9175

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1978.53	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	16.52	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/PN495C/51/V113/06	Zn Coating-6	99.2
Plant Name: Pipe Plant; GPCB ID: 18036 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. Purohit*  
AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN613C/51/V119/07

Reporting Date: 30/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN613C/51/V119/07	Sampling Date:	23/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/06/2023
Sample Type:	Stack	Analysis start- End Date:	26/06/2023-29/06/2023
Stack Height & Dia (m):	30 & 0.6	Stack Temperature (°C):	39
Stack Attached To:	Zn Coating-2	Stack gas velocity (m/sec):	10.09
Fuel Used:	-	Volume of Air Sampled in NM3:	0.8726

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1781.80	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	14.85	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/613C/51/V119/03	Zn Coating-2	99.2

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



GO GREEN MECHANISMS PVT. LTD.

*P. B. Poo*  
AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN644C/51/V122/06

Reporting Date: 01/07/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN644C/51/V122/06	Sampling Date:	27/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2023
Sample Type:	Stack	Analysis start- End Date:	29/06/2023-01/07/2023
Stack Height & Dia (m):	30 & 1.0	Stack Temperature (°C):	48
Stack Attached To:	Mg Converter-1	Stack gas velocity (m/sec):	11.56
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9969

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	1984.15	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	25.64	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/PN644C/51/V122/06	Mg Converter-1	98.7
Plant Name: Pipe Plant; GPCB ID: 18036 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. P.*  
AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN644C/51/V122/08

Reporting Date: 01/07/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN644C/51/V122/08	Sampling Date:	27/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2023
Sample Type:	Stack	Analysis start- End Date:	29/06/2023-01/07/2023
Stack Height & Dia (m):	30 & 0.5	Stack Temperature (°C):	43
Stack Attached To:	Mg Converter-2	Stack gas velocity (m/sec):	10.64
Fuel Used:	-	Volume of Air Sampled in NM3:	0.9297

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	2940.95	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	27.38	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/PN644C/51/V122/08	Mg Conerter-2	99.1
Plant Name: Pipe Plant; GPCB ID: 18036 / APMC-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. Poo*  
AUTHORIZED SIGNATORY

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/PN659C/51/V123/05	Zn Coating Machine FL-7	99.5
Plant Name: Pipe Plant; GPCB ID: 18036 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. Puj*  
AUTHORIZED SIGNATORY

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN659C/51/V123/05

Reporting Date: 03/07/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Lab ID:	Lab/PN659C/51/V123/05	Sampling Date:	28/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2023
Sample Type:	Stack	Analysis start- End Date:	30/06/2023-03/07/2023
Stack Height & Dia (m):	30 & 1.2	Stack Temperature (°C):	37
Stack Attached To:	Zn Coating Machine - 7	Stack gas velocity (m/sec):	10.03
Fuel Used:	-	Volume of Air Sampled in NM3:	0.885

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM) (Inlet)	3291.77	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Particulate Matter (PM) (Outlet)	16.75	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

*P. Parekh*

Analyzed By  
Pooja Parekh



*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/PN659C/51/V123/05	Zn Coating Machine FL-7	99.3
Plant Name: Pipe Plant; GPCB ID: 18036 / APCM-Bag Filter			



GO GREEN MECHANISMS PVT. LTD.

*P. B. P.*  
AUTHORIZED SIGNATORY

**Ambient Noise  
Monitoring  
Report**

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN481C/51/V111/03

Reporting Date: 13/06/2023

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 07/06/2023  
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN481C/51/ V111/03	Old Colony	Day Time	db(A)Leq	IS 9989	50.7	55
2	Lab/PN481C/51/ V111/03	Old Colony	Night Time	db(A)Leq	IS 9989	42.3	45

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min:46.7 ,Max:53.7 Value in dB(A) Night Time: Min:35.1 ,Max:44.5

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/PN495C/51/V113/07

Reporting Date: 16/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 09/06/2023  
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN495C/51/V113/07	Spiral-2 Pipe Storage Yard	Day Time	db(A)Leq	IS 9989	52.3	75
2	Lab/PN495C/51/V113/07	Spiral-2 Pipe Storage Yard	Night Time	db(A)Leq	IS 9989	46.2	70

AMBIENT NOISE LEVEL MONITORING Value in dB(A)Day Time: Min:48.2, Max:54.7 Value in dB(A) Night Time: Min:40.6, Max:48.3

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/PN508C/51/V114/03

Reporting Date: 15/06/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 10/06/2023  
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN508C/51/ V114/03	Main Gate	Day Time	db(A)Leq	IS 9989	51.9	75
2	Lab/PN508C/51/ V114/03	Main Gate	Night Time	db(A)Leq	IS 9989	46.4	70

AMBIENT NOISE MONITORING Value in dB(A)Day Time: Min:46.5, Max:54.1 Value in dB(A)Night Time: Min:41.2, Max:49.3

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/PN565C/51/V116/04

Reporting Date: 26/06/2023

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 19/06/2023  
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN565C/51/ V116/04	Vikaspuram	Day Time	db(A)Leq	IS 9989	51.0	55
2	Lab/PN565C/51/ V116/04	Vikaspuram	Night Time	db(A)Leq	IS 9989	44.1	45

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min:47.0, Max:54.8 Value in dB(A) Night Time: Min:40.6, Max:46.8

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/ PN637C/51/V121/08

Reporting Date: 01/07/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 26/06/2023  
Sample Description: Ambient Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN637C/51/V121/08	School Building	Day Time	db(A)Leq	IS 9989	53.6	55
2	Lab/PN637C/51/V121/08	School Building	Night Time	db(A)Leq	IS 9989	44.1	45

AMBIENT NOISE LEVEL MONITORING Value in dB(A) Day Time: Min:50.2, Max:56.6 Value in dB(A) Night Time: Min:41.8, Max:46.4

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: GGMPL/PN508C/51/V114/04

Reporting Date: 15/06/2023

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 10/06/2023  
Sample Description: Sourc Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN508C/51/ V114/04A	Control Room	Day Time	dB(A)Leq	IS 4758	56.7	85
2	Lab/PN508C/51/ V114/04B	Opp. Control Room	Day Time	dB(A)Leq	IS 4758	58.2	85
3	Lab/PN508C/51/ V114/04C	Laboratory	Day Time	dB(A)Leq	IS 4758	52.9	85
4	Lab/PN508C/51/ V114/04D	Blower House Control Room	Day Time	dB(A)Leq	IS 4758	64.5	85

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

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN637C/51/V121/09

Reporting Date: 01/07/2023

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



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 26/06/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN637C/51/V121/09A	Control Room	Day Time	dB(A)Leq	IS 4758	52.4	85
2	Lab/PN637C/51/V121/09B	Cast House	Day Time	dB(A)Leq	IS 4758	65.2	85
3	Lab/PN637C/51/V121/09C	Blower House	Day Time	dB(A)Leq	IS 4758	69.3	85
4	Lab/PN637C/51/V121/09D	Stock House	Day Time	dB(A)Leq	IS 4758	61.0	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: GGMPL/PN565C/51/V116/05

Reporting Date: 26/06/2023

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 19/06/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN565C/51/V116/05A	Sinter-1 Control Room	Day Time	dB(A)Leq	IS 4758	59.2	85
2	Lab/PN565C/51/V116/05B	Sinter Machine Area	Day Time	dB(A)Leq	IS 4758	75.0	85
3	Lab/PN565C/51/V116/05C	Nr Flux Building	Day Time	dB(A)Leq	IS 4758	69.6	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: GGMPL/PN471C/51/V110/08

Reporting Date: 13/06/2023

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 06/06/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN471C/51/V110/08A	Control Room	Day Time	dB(A)Leq	IS 4758	66.8	85
2	Lab/PN471C/51/V110/08B	Machine Area	Day Time	dB(A)Leq	IS 4758	73.5	85
3	Lab/PN471C/51/V110/08C	Proportional Building	Day Time	dB(A)Leq	IS 4758	70.0	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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN688C/51/V125/02

Reporting Date: 03/07/2023

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 30/06/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN688C/51/V125/02A	SDP 1 CCM Area	Day Time	dB(A)Leq	IS 4758	69.2	85
2	Lab/PN688C/51/V125/02B	DISP Annealing Furnace	Day Time	dB(A)Leq	IS 4758	62.4	85
3	Lab/PN688C/51/V125/02C	Mould Shop	Day Time	dB(A)Leq	IS 4758	71.7	85
4	Lab/PN688C/51/V125/02D	Pickling & Passivation	Day Time	dB(A)Leq	IS 4758	65.8	85
5	Lab/PN688C/51/V125/02E	ETP	Day Time	dB(A)Leq	IS 4758	70.6	85
6	Lab/PN688C/51/V125/02F	Spiral ID/OD	Day Time	dB(A)Leq	IS 4758	64.3	85
7	Lab/PN688C/51/V125/02G	FL-7 Office	Day Time	dB(A)Leq	IS 4758	56.0	85
8	Lab/PN688C/51/V125/02H	Shot Blasting	Day Time	dB(A)Leq	IS 4758	74.6	85

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

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

*P. Parekh*

Analyzed By  
Pooja Parekh



*P. B. Patel*

Authorized Signatory  
Payal Patel

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**Form -37**

Form No. 37

(Prescribed under Rule 12-B)

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

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

Date of Sampling : 10-06-2023

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
				2	2.27 mg/m <sup>3</sup> 2.82 mg/m <sup>3</sup>	2.55 mg/m <sup>3</sup>	40 mg/m <sup>3</sup>	IS 5182 (Part-10)	3			
1	Cast House	RSPM	Handy Sampler	2	2.48 mg/m <sup>3</sup> 2.66 mg/m <sup>3</sup>	2.57 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600				Pankil
				2	69.8 dB 72.7 dB	71.3 dB	85 dB	IS 4758				



GO GREEN MECHANISMS PVT. LTD.

*P. B. K...*

AUTHORIZED SIGNATORY


Form No. 37

(Prescribed under Rule 1.2-B)

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

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

Date of Sampling : 26-06-2023

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> 3.44 mg/m <sup>3</sup>	3.15 mg/m <sup>3</sup>	40 mg/m <sup>3</sup>	IS 5182(Part-10)	3	-		Pankil
				2	2.47 mg/m <sup>3</sup> 2.98 mg/m <sup>3</sup>	2.73 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600				
				Noise	Noise Meter	2	70.7 dB 67.4 dB	69.05 dB	85 dB	IS 4758		



GO GREEN MECHANISMS PVT. LTD.

*P. D. Poo*

AUTHORIZED SIGNATORY


Form No. 37

(Prescribed under Rule 12-B)

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

- 1 Name of the Department/Plant.: **Sinter Plant-1 first floor at JINDAL SAW LIMITED, Samaghogha. (GPCB ID:35456)**
- 2 Raw materials, by products and finished products involved in the process. **Lime Stone,Coke, Dolomite etc & Sinter**
- 3 Particulars of sampling

Date of Sampling : 19-06-2023

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	2.89 mg/m <sup>3</sup> 3.27 mg/m <sup>3</sup>	3.08 mg/m <sup>3</sup>	40 mg/m <sup>3</sup>	IS 5182 (Part-10)				
1	Sinter -1 First Floor	RSPM	Handy Sampler	2	2.54 mg/m <sup>3</sup> 2.89 mg/m <sup>3</sup>	2.72 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	4	-		Pankil
		Noise	Noise Meter	2	67.2 70.7	68.95 dB	85 dB	IS 4758				



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AUTHORIZED SIGNATORY

(Prescribed under Rule 12-B)

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

- 1 Name of the Department/Plant.: **Sinter Plant-2 first floor at JINDAL SAW LIMITED, Samaghoghha. (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 : 06-06-2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
		CO	CO Analyzer	2	1.92 mg/m <sup>3</sup> 3.12 mg/m <sup>3</sup>	2.52 mg/m <sup>3</sup>	40 mg/m <sup>3</sup>	IS 5182 (Part-10)				
1	Sinter -2 First Floor	RSPM	Handy Sampler	2	2.56 mg/m <sup>3</sup> 2.26 mg/m <sup>3</sup>	2.41 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	4	-	<i>P.</i>	Pankil
		Noise	Noise Meter	2	69.7 dB 65.8 dB	67.75 dB	85 dB	IS 4758				



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*P. B. Pankil*

AUTHORIZED SIGNATORY

Form No. 37

(Prescribed under Rule 12-B)

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

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

Date of Sampling : 08-06-2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
		VOC	Low Volume Pump	2	4.4 mg/m <sup>3</sup> 5.2 mg/m <sup>3</sup>	4.8 mg/m <sup>3</sup>	40 mg/m <sup>3</sup>	IS 5182 (Part-11)				
1	SDP-2 Induction	RSPM	Handy Sampler	2	2.78 mg/m <sup>3</sup> 1.58 mg/m <sup>3</sup>	2.18 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	3	-	<i>P.</i>	Pankil
		Noise	Noise Meter	2	69.8 dB 58.6 dB	64.2 dB	85 dB	IS 4758				



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*P. B. Raj*


AUTHORIZED SIGNATORY

## (Prescribed under Rule 12-B)

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

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

Date of Sampling : 10-06-2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
1	DISP CCM Area	RSPM	Handy Sampler	2	1.80 mg/m <sup>3</sup> 2.41 mg/m <sup>3</sup>	2.11 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	4	-		Pankil
		Noise	Noise Meter	2	70.6 dB 67.2 dB	70.7 dB	85 dB	IS 4758				



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AUTHORIZED SIGNATORY

Form No. 37

(Prescribed under Rule 12-B)

- Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).**
- 1 Name of the Department/Plant.: 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 : 24-06-2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Pickling and Passivation Area	RSPM	Handy Sampler	2	3.01 mg/m <sup>3</sup>	2.67 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	4	-		Pankil
					2.32 mg/m <sup>3</sup>							
		Noise	Noise Meter	2	70.4 dB	70.05 dB	85 dB	IS 4758				
					69.7 dB							
HF	Handy Sampler	2	BQL	BQL	2.5 mg/m <sup>3</sup>	NIOSH-7903						
			BQL									
HNO <sub>3</sub>	Handy Sampler	2	BQL	BQL	5 mg/m <sup>3</sup>	NIOSH-7903						
			BQL									



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## (Prescribed under Rule 12-B)

**Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).**1. Name of the Department/Plant.: **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 : 24-06-2023

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 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	...	2.3 (Propane)	...	LEL monitor			Pankil
		RSPM	Handy Sampler	02	2.46 mg/m <sup>3</sup> 1.67 mg/m <sup>3</sup>	2.07 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	3				
		Noise	Noise Meter	02	70.6 dB 68.2 dB	69.4 dB	85 dB	IS 4758					



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Form No. 37

(Prescribed under Rule 12-B)

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

- 1 Name of the Department/Plant.: Pipe Plant at JINDAL SAW LIMITED, Samaghogha. (GPCB ID:180336)
- 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 : 27-06-2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
		RSPM	Handy Sampler	2	2.34 mg/m <sup>3</sup> 2.17 mg/m <sup>3</sup>	2.26 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600				
		Noise	Noise Meter	2	70.7 dB 68.3 dB	69.5 dB	85 dB	IS 4758	4	-		Pankil
1	SDP 2 Bitumin Area	VOC	Low Volume Pump	2	4.5 mg/m <sup>3</sup> 4.3 mg/m <sup>3</sup>	4.4 mg/m <sup>3</sup>	-	IS 5182 Part-11				



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(Prescribed under Rule 12-B)

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

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

Date of Sampling : 27-06-2023

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	2.43 mg/m <sup>3</sup> 1.94 mg/m <sup>3</sup>	2.19 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	4	-		Pankil
		Noise	Noise Meter	2	71.6 dB 69.2 dB	70.4 dB	85 dB					



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(Prescribed under Rule 12-B)

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

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

Date of Sampling : 29.06.2023

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Coating 2 Id & OD Area	RSPM	Handy Sampler	2	2.27 mg/m <sup>3</sup> 1.95 mg/m <sup>3</sup>	2.11 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NIOSH-0600	4	-	P	Pankil
		Noise	Noise Meter	2	70.3 dB 69.1 dB	69.7 dB	85 dB					



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# **Wastewater Report**

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN626C/51/V120/01

**JINDAL SAW LIMITED**

Samaghogha, Mundra, Kutch-370415

Reporting Date : 01/07/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN626C/51/V120/01	Sampling Date:	24/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/06/2023
Sample Type:	Waste Water	Analysis Start Date:	27/06/2023
Sample Description:	STP Outlet	Analysis End Date:	01/07/2023
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.46	-	IS 3025- Part 11	6.5 to 8.5
2	Total Dissolved Solids	936.00	mg/L	APHA 23rd Edn 2540 C	NS
3	Total Suspended Solids	BQL (QL=10)	mg/L	APHA 23rd Edn 2540 D	100
4	Chemical Oxygen Demand	30.00	mg/L	APHA 23rd Edn 5220 B	50
5	BOD at 20°C – 5 Days	8.33	mg/L	APHA 23rd Edn 5210 B	30

Plant Name: Blast Furnace-1 GPCB ID : 18037

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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN626C/51/V120/02

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

Reporting Date : 01/07/2023



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN626C/51/V120/02	Sampling Date:	24/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/06/2023
Sample Type:	Waste Water	Analysis Start Date:	27/06/2023
Sample Description:	STP Inlet	Analysis End Date:	01/07/2023
Sample Quantity:	4 L	Sampling Method:	GGMP/LWI/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	-
2	Total Dissolved Solids	1042.00	mg/L	APHA 23rd Edn 2540 C	-
3	Total Suspended Solids	109.00	mg/L	APHA 23rd Edn 2540 D	-
4	Chemical Oxygen Demand	125.00	mg/L	APHA 23rd Edn 5220 B	-
5	BOD at 20°C – 5 Days	37.00	mg/L	APHA 23rd Edn 5210 B	-

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

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

*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/PN626C/51/V120/02

JINDAL SAW LIMITED

Samaghogha, Mundra, Kutch-370415

Reporting Date : 01/07/2023



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN626C/51/V120/02	Sampling Date:	24/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/06/2023
Sample Type:	Waste Water	Analysis Start Date:	27/06/2023
Sample Description:	STP Inlet	Analysis End Date:	01/07/2023
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.62	-	IS 3025- Part 11	-
2	Total Dissolved Solids	1042.00	mg/L	APHA 23rd Edn 2540 C	-
3	Total Suspended Solids	109.00	mg/L	APHA 23rd Edn 2540 D	-
4	Chemical Oxygen Demand	125.00	mg/L	APHA 23rd Edn 5220 B	-
5	BOD at 20°C – 5 Days	37.00	mg/L	APHA 23rd Edn 5210 B	-

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

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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN626C/51/V120/03

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415

Reporting Date : 01/07/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN626C/51/V120/03	Sampling Date:	24/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/06/2023
Sample Type:	Waste Water	Analysis Start Date:	27/06/2023
Sample Description:	ETP Outlet	Analysis End Date:	01/07/2023
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.33	-	IS 3025- Part 11	6.5 to 8.5
2	Temperature °C	26.8	°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	121.18	mg/L	APHA 23rd Edn 4500 SO4 E	1000
6	Fluoride	0.48	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	982.00	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	131.96	mg/L	IS 3025- Part 32	600
12	Chemical Oxygen Demand	70.00	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*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN626C/51/V120/03

JINDAL SAW LIMITED  
Samaghogha, Mundra, Kutch-370415

Reporting Date : 01/07/2023



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN626C/51/V120/03	Sampling Date:	24/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/06/2023
Sample Type:	Waste Water	Analysis Start Date:	27/06/2023
Sample Description:	ETP Outlet	Analysis End Date:	01/07/2023
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Ammonical Nitrogen	8.40	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	20.00	mg/L	IS 3025- Part 44	30
16	Sodium	0.0132	%	APHA 23rd Edn 3120 B	-
17	Zinc as Zn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	10
18	Sodium Absorption Ratio	1.55	-	GGMPL/SOP/W/52	26

Plant Name: Pipe Plant; GPCB ID : 18036

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: GGMP/ PN626C/51/V120/04

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

Reporting Date : 01/07/2023



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN626C/51/V120/04	Sampling Date:	24/06/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/06/2023
Sample Type:	Waste Water	Analysis Start Date:	27/06/2023
Sample Description:	BF SGP	Analysis End Date:	01/07/2023
Sample Quantity:	4 L	Sampling Method:	GGMP/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.43	-	IS 3025- Part 11	6.5 to 8.5
2	Temperature °C	28.2	°C	APHA 23rd Edn 2550 B	40
3	Color	20	CU	IS 3025- Part 4	100
4	Sulphate	164.29	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	994.00	mg/L	APHA 23rd Edn 2540 C	2100
7	Total Suspended Solids	32.00	mg/L	APHA 23rd Edn 2540 D	100
8	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
9	Chloride	309.90	mg/L	IS 3025- Part 32	600
10	Chemical Oxygen Demand	40.00	mg/L	APHA 23rd Edn 5220 B	100
11	Ammonical Nitrogen	8.12	mg/L	APHA 23rd Edn 4500 NH3 C	50
12	BOD at 27 °C for 3 days	10.00	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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

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