

Ambient Air Report

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3998D/250/01

Reporting Date: 13/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3998D/250/01	Sampling Start Date:	03/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	04/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	07/03/2025
Sample Description:	Near Canteen Area	Analysis start- End Date:	07/03/2025-13/03/2025
Env. Cond.-Sampling:	Temp - 29°C / Humidity - 52%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	66.58	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.91	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	20.89	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.98	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.66	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.73	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

Reviewed & Authorized by
Gyanvati Shukla



End of Report ---

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3998D/250/02

Reporting Date: 13/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



TC-7073

SAMPLE DETAILS

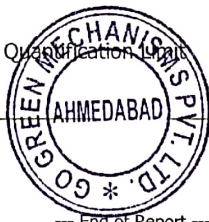
Lab ID:	Lab/PN/3998D/250/02	Sampling Start Date:	03/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	04/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	07/03/2025
Sample Description:	Near TTC Main Gate	Analysis start- End Date:	07/03/2025-13/03/2025
Env. Cond.-Sampling:	Temp - 29°C & Humidity - 52%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	73.54	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	13.79	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	20.05	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.90	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.44	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.69	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per National Ambient Air Quality Standards.

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CERTIFICATE OF ANALYSIS

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RAIL WHEEL PLANT BELA

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India


TC-7073

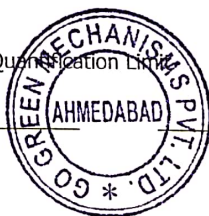
SAMPLE DETAILS

Lab ID:	Lab/PN/3998D/250/03	Sampling Start Date:	03/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	04/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	07/03/2025
Sample Description:	Near Material Gate	Analysis start- End Date:	07/03/2025-13/03/2025
Env. Cond.-Sampling:	Temp - 29°C & Humidity - 52%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	69.12	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	µg/m3	GGMP/L/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.91	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	21.04	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.75	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.28	µg/m3	GGMP/L/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.66	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

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CERTIFICATE OF ANALYSIS

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Reporting Date: 13/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

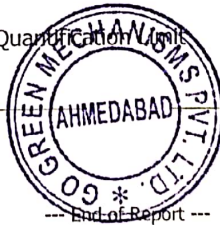
Lab ID:	Lab/PN/3998D/250/04	Sampling Start Date:	03/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	04/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	07/03/2025
Sample Description:	Near Pump House	Analysis start- End Date:	07/03/2025-13/03/2025
Env. Cond.-Sampling:	Temp - 29°C & Humidity - 52%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	71.59	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.33	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	17.11	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	22.53	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.75	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	20.83	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.63	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

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Reporting Date: 19/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



TC-7073

SAMPLE DETAILS

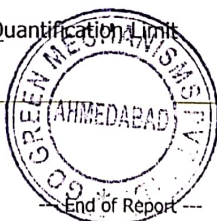
Lab ID:	Lab/PN/4059D/01/250/01	Sampling Start Date:	08/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	09/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/03/2025
Sample Description:	Near Canteen Area	Analysis start- End Date:	13/03/2025-19/03/2025
Env. Cond.-Sampling:	Temp - 29°C / Humidity - 46%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.30	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.08	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	17.06	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	22.40	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.06	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	18.81	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.72	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

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SAMPLE DETAILS

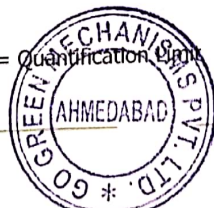
Lab ID:	Lab/PN/4059D/01/250/02	Sampling Start Date:	08/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	09/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/03/2025
Sample Description:	Near TTC Main Gate	Analysis start- End Date:	13/03/2025-19/03/2025
Env. Cond.-Sampling:	Temp - 29°C / Humidity - 46%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	77.18	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.41	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.00	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	22.12	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.30	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	22.85	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.71	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

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India



SAMPLE DETAILS

Lab ID:	Lab/PN/4059D/01/250/03	Sampling Start Date:	08/03/2025
Sample Drawn By:	Subodhndand Bharti	Sampling End Date:	09/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/03/2025
Sample Description:	Near Material Gate	Analysis start- End Date:	13/03/2025-19/03/2025
Env. Cond.-Sampling:	Temp - 29°C / Humidity - 46%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	73.18	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	41.24	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.79	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	23.19	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.48	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.47	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.68	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4059D/01/250/04

Reporting Date: 19/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/4059D/01/250/04	Sampling Start Date:	08/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	09/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/03/2025
Sample Description:	Near Pump House	Analysis start- End Date:	13/03/2025-19/03/2025
Env. Cond.-Sampling:	Temp - 29°C / Humidity - 46%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	74.94	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.07	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	19.55	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	24.20	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.17	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	22.85	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.66	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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Gyanvati Shukla



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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4077D/250/01

Reporting Date: 24/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



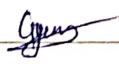
SAMPLE DETAILS

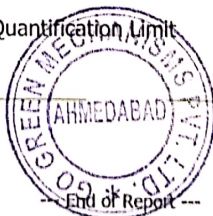
Lab ID:	Lab/PN/4077D/250/01	Sampling Start Date:	13/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	14/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2025
Sample Description:	Near Canteen Area	Analysis start- End Date:	17/03/2025-22/03/2025
Env. Cond.-Sampling:	Temp - 29°C / Humidity - 60%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

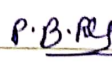
Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	64.38	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	13.23	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	18.15	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.26	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.79	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.74	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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


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Payal Patel

Page No : 1/1

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Head Office & Lab

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4077D/250/02

Reporting Date: 24/03/2025

RAIL WHEEL PLANT BELA
3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

Lab ID:	Lab/PN/4077D/250/02	Sampling Start Date:	13/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	14/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2025
Sample Description:	Near TTC Main Gate	Analysis start- End Date:	17/03/2025-22/03/2025
Env. Cond.-Sampling:	Temp - 29°C / Humidity - 60%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.24	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	12.47	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	18.40	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.57	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.13	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.70	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4077D/250/03

Reporting Date: 24/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

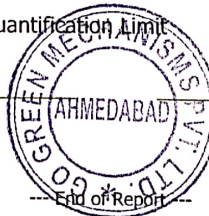
Lab ID:	Lab/PN/4077D/250/03	Sampling Start Date:	13/03/2025
Sample Drawn By:	Subodhndand Bharti	Sampling End Date:	14/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2025
Sample Description:	Near Material Gate	Analysis start- End Date:	17/03/2025-22/03/2025
Env. Cond.-Sampling:	Temp - 29°C / Humidity - 60%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	67.98	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	12.43	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	19.85	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.44	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.44	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.64	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4077D/250/04

Reporting Date: 24/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/4077D/250/04	Sampling Start Date:	13/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	14/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2025
Sample Description:	Near Pump House	Analysis start- End Date:	17/03/2025-22/03/2025
Env. Cond.-Sampling:	Temp - 29°C / Humidity - 60%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.09	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.64	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	20.92	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.75	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.47	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.65	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4127D/250/03

Reporting Date: 29/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

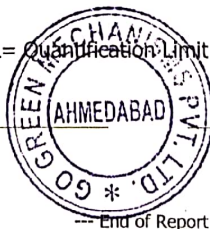
Lab ID:	Lab/PN/4127D/250/03	Sampling Start Date:	18/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	19/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	22/03/2025
Sample Description:	Near Canteen Area	Analysis start- End Date:	22/03/2025-28/03/2025
Env. Cond.-Sampling:	Temp - 32°C / Humidity - 52%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	71.21	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.19	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	25.70	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.92	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	18.81	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.72	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4127D/250/04

Reporting Date: 29/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

Lab ID: Lab/PN/4127D/250/04
Sample Drawn By: Subodhnand Bharti
Sample Type: Ambient Air
Sample Description: Near TTC Main Gate
Env. Cond.-Sampling: Temp - 32°C / Humidity - 52%
Env. Cond.-Sample Receipt: Satisfactory

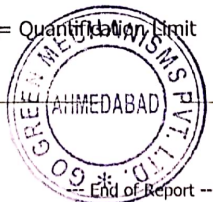
Sampling Start Date: 18/03/2025
Sampling End Date: 19/03/2025
Sample Receipt Date: 22/03/2025
Analysis start- End Date: 22/03/2025-28/03/2025
Total Sampling hours: 24
Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.07	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	17.25	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	24.19	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.92	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	18.81	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.71	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4127D/250/05

Reporting Date: 29/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/4127D/250/05
Sample Drawn By: Subodhnand Bharti
Sample Type: Ambient Air
Sample Description: Near Material Gate
Env. Cond.-Sampling: Temp - 32°C / Humidity - 52%
Env. Cond.-Sample Receipt: Satisfactory

Sampling Start Date: 18/03/2025
Sampling End Date: 19/03/2025
Sample Receipt Date: 22/03/2025
Analysis start- End Date: 22/03/2025-28/03/2025
Total Sampling hours: 24
Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	69.51	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.32	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.19	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	25.32	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.54	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	18.81	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.73	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

Reviewed & Authorized by
Tantan Kumar



--- End of Report ---

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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4127D/250/06

Reporting Date: 29/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

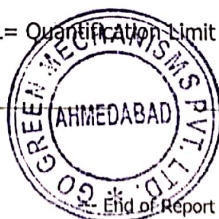
Lab ID:	Lab/PN/4127D/250/06	Sampling Start Date:	18/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	19/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	22/03/2025
Sample Description:	Near Pump House	Analysis start- End Date:	22/03/2025-28/03/2025
Env. Cond.-Sampling:	Temp - 32°C / Humidity - 52%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.19	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.19	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	25.51	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.06	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	20.16	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.79	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4156D/250/01

Reporting Date: 31/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

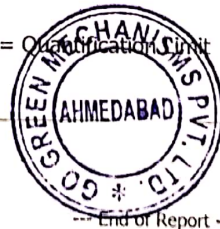
Lab ID:	Lab/PN/4156D/250/01	Sampling Start Date:	22/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	23/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	26/03/2025
Sample Description:	Near Canteen Area	Analysis start- End Date:	26/03/2025-31/03/2025
Env. Cond.-Sampling:	Temp - 31°C / Humidity - 32%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	67.45	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	11.73	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	16.88	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.19	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.47	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.72	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4156D/250/02

Reporting Date: 31/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar, India



SAMPLE DETAILS

Lab ID:	Lab/PN/4156D/250/02	Sampling Start Date:	22/03/2025
Sample Drawn By:	Subodhnannd Bharti	Sampling End Date:	23/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	26/03/2025
Sample Description:	Near TTC Main Gate	Analysis start- End Date:	26/03/2025-31/03/2025
Env. Cond.-Sampling:	Temp - 31°C / Humidity - 32%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.52	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	11.73	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	16.63	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.43	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.78	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.68	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4156D/250/03

Reporting Date: 31/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

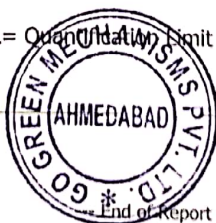
Lab ID:	Lab/PN/4156D/250/03	Sampling Start Date:	22/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	23/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	26/03/2025
Sample Description:	Near Material Gate	Analysis start- End Date:	26/03/2025-31/03/2025
Env. Cond.-Sampling:	Temp - 31°C / Humidity - 32%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	66.74	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	11.51	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	17.57	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.19	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.78	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.65	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4156D/250/04

Reporting Date: 31/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

Lab ID:	Lab/PN/4156D/250/04	Sampling Start Date:	22/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	23/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	26/03/2025
Sample Description:	Near Pump House	Analysis start- End Date:	26/03/2025-31/03/2025
Env. Cond.-Sampling:	Temp - 31°C / Humidity - 32%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	66.71	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.07	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	13.35	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	17.39	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.19	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.78	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.64	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4183D/250/01

Reporting Date: 04/04/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

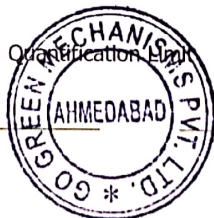
Lab ID:	Lab/PN/4183D/250/01	Sampling Start Date:	24/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	25/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near Canteen Area	Analysis start- End Date:	28/03/2025-03/04/2025
Env. Cond.-Sampling:	Temp - 31°C / Humidity - 34%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	67.61	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	20.17	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	25.70	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.48	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	24.19	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.68	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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Tantan Kumar



--- End of Report ---

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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4183D/250/02

Reporting Date: 04/04/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

Lab ID: Lab/PN/4183D/250/02
Sample Drawn By: Subodhnand Bharti
Sample Type: Ambient Air
Sample Description: Near TTC Main Gate
Env. Cond.-Sampling: Temp - 31°C / Humidity - 34%
Env. Cond.-Sample Receipt: Satisfactory

Sampling Start Date: 24/03/2025
Sampling End Date: 25/03/2025
Sample Receipt Date: 28/03/2025
Analysis start- End Date: 28/03/2025-03/04/2025
Total Sampling hours: 24
Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	66.21	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.40	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.65	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	26.93	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.17	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	24.19	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.72	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per National Ambient Air Quality Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4183D/250/03

Reporting Date: 04/04/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



TC-7073

SAMPLE DETAILS

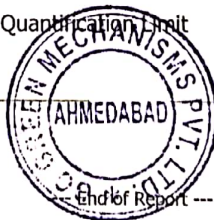
Lab ID:	Lab/PN/4183D/250/03	Sampling Start Date:	24/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	25/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near Material Gate	Analysis start- End Date:	28/03/2025-03/04/2025
Env. Cond.-Sampling:	Temp - 31°C / Humidity - 34%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	69.64	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.40	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	19.37	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	25.45	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.03	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	22.85	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.74	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per National Ambient Air Quality Standards.

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4183D/250/04

Reporting Date: 04/04/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

Lab ID:	Lab/PN/4183D/250/04	Sampling Start Date:	24/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	25/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near Pump House	Analysis start- End Date:	28/03/2025-03/04/2025
Env. Cond.-Sampling:	Temp - 31°C / Humidity - 34%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	66.55	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.49	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	20.44	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	27.78	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.03	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	25.53	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.71	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per National Ambient Air Quality Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4251D/250/01

Reporting Date: 07/04/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

Lab ID:	Lab/PN/4251D/250/01	Sampling Start Date:	28/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	29/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	31/03/2025
Sample Description:	Near Canteen Area	Analysis start- End Date:	31/03/2025-05/04/2025
Env. Cond.-Sampling:	Temp - 31°C / Humidity - 33%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	71.91	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	22.66	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	28.23	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.04	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	26.89	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.70	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per National Ambient Air Quality Standards.

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CERTIFICATE OF ANALYSIS

Reporting Date: 07/04/2025

Report Number : GGMPL/PN/4251D/250/02

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

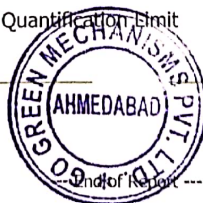
Lab ID:	Lab/PN/4251D/250/02	Sampling Start Date:	28/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	29/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	31/03/2025
Sample Description:	Near TTC Main Gate	Analysis start- End Date:	31/03/2025-05/04/2025
Env. Cond.-Sampling:	Temp - 31°C / Humidity - 33%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.28	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.50	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	20.87	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	28.07	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.73	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	26.89	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.70	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

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Reporting Date: 07/04/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

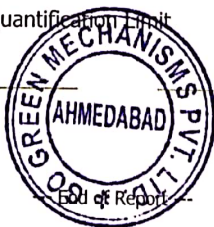
Lab ID:	Lab/PN/4251D/250/03	Sampling Start Date:	28/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	29/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	31/03/2025
Sample Description:	Near Material Gate	Analysis start- End Date:	31/03/2025-05/04/2025
Env. Cond.-Sampling:	Temp - 31°C / Humidity - 33%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.54	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.08	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	21.05	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	27.22	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	19.28	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	24.20	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.72	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per National Ambient Air Quality Standards.

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4251D/250/04

Reporting Date: 07/04/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



TC-7073

SAMPLE DETAILS

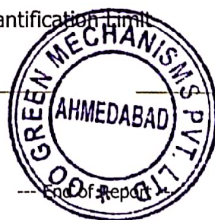
Lab ID:	Lab/PN/4251D/250/04	Sampling Start Date:	28/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	29/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	31/03/2025
Sample Description:	Near Pump House	Analysis start- End Date:	31/03/2025-05/04/2025
Env. Cond.-Sampling:	Temp - 31°C / Humidity - 33%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	63.57	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.58	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	22.26	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	28.23	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	19.59	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	29.57	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.69	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per National Ambient Air Quality Standards.

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

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Tantan Kumar



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Payal Patel

Page No : 1/1

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Fugitive Monitoring Report



CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4127D/250/07

Reporting Date: 29/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/4127D/250/07	Sampling Start Date:	18/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	18/03/2025
Sample Type:	Fugitive Emission	Sample Receipt Date:	22/03/2025
Sample Description:	Mould Room	Analysis start- End Date:	22/03/2025-28/03/2025
Env. Cond.-Sampling:	Temp - 32°C / Humidity - 52%	Total Sampling hours:	4
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	45.36	µg/m3	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO2)	53.91	µg/m ³	IS 5182 (Part 2)	150
3	Suspended Particulate Matter(SPM)	1764.76	µg/m3	IS 5182 (part 4)	-

Norms As Per Integrated Iron & Steel Standards G.S.R. 277(E).

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

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Tantan Kumar



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4251D/250/06

Reporting Date: 07/04/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/4251D/250/06	Sampling Start Date:	28/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	28/03/2025
Sample Type:	Fugitive Emission	Sample Receipt Date:	31/03/2025
Sample Description:	WFPS Area	Analysis start- End Date:	31/03/2025-05/04/2025
Env. Cond.-Sampling:	Temp - 31°C / Humidity - 33%	Total Sampling hours:	4
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	66.54	µg/m ³	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO ₂)	75.54	µg/m ³	IS 5182 (Part 2)	150
3	Suspended Particulate Matter(SPM)	1777.70	µg/m ³	IS 5182 (part 4)	-

Norms As Per Integrated Iron & Steel Standard G.S.R. 277(E).

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4251D/250/07

Reporting Date: 07/04/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



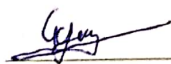
SAMPLE DETAILS

Lab ID:	Lab/PN/4251D/250/07	Sampling Start Date:	29/03/2025
Sample Drawn By:	Subodhnand Bharti	Sampling End Date:	29/03/2025
Sample Type:	Fugitive Emission	Sample Receipt Date:	31/03/2025
Sample Description:	MRS Area	Analysis start- End Date:	31/03/2025-05/04/2025
Env. Cond.-Sampling:	Temp - 32°C / Humidity - 20%	Total Sampling hours:	4
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

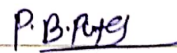
Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	68.05	µg/m3	IS 5182 (Part 6)	120
2	Sulphur Dioxide (SO2)	62.88	µg/m ³	IS 5182 (Part 2)	150
3	Suspended Particulate Matter(SPM)	1494.93	µg/m3	IS 5182 (part 4)	NS

Norms As Per Integrated Iron & Steel Standards G.S.R. 277(E).

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



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Ambient Noise Monitoring Report

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4127D/250/08

Reporting Date: 29/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

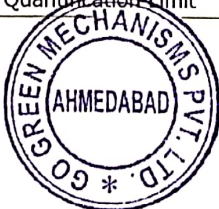
Lab ID:	Lab/PN/4127D/250/08	Sampling Date:	18/03/2025
Location:	MOULD ROOM	Sample Description:	Ambient Noise
Sampling Instrument :	Sound Level Meter	Ldn:	69.8
Lmax (Day) :	81.9	Lmax (Night):	71.4
Lmin (Day) :	59.3	Lmin (Night):	48.3
L10 (Day):	75.7	L10 (Night):	61.3
L50 (Day):	66.8	L50 (Night):	56.7
L90 (Day):	61.3	L90 (Night):	51.1
Leq (Day):	71.4	Leq (Night):	59.0

Sr.No	Time	Hourly Leq	Unit	Test Method	Norms
1	06:00 - 07:00	61.2	dB(A)Leq	IS 9989	-
2	07:00 - 08:00	66.3	dB(A)Leq	IS 9989	-
3	08:00 - 09:00	70.2	dB(A)Leq	IS 9989	-
4	09:00 - 10:00	67.9	dB(A)Leq	IS 9989	-
5	10:00 - 11:00	67.3	dB(A)Leq	IS 9989	-
6	11:00 - 12:00	63.3	dB(A)Leq	IS 9989	-
7	12:00 - 13:00	68.3	dB(A)Leq	IS 9989	-
8	13:00 - 14:00	71.8	dB(A)Leq	IS 9989	-
9	14:00 - 15:00	78.4	dB(A)Leq	IS 9989	-
10	15:00 - 16:00	72.6	dB(A)Leq	IS 9989	-
11	16:00 - 17:00	73.3	dB(A)Leq	IS 9989	-
12	17:00 - 18:00	72.5	dB(A)Leq	IS 9989	-

Norms As Per The Noise Pollution (Regulation and Control) Rules, 2000; Day Leq: 75 Night Leq: 70.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4127D/250/08

Reporting Date: 29/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

Lab ID:	Lab/PN/4127D/250/08	Sampling Date:	18/03/2025
Location:	MOULD ROOM	Sample Description:	Ambient Noise
Sampling Instrument :	Sound Level Meter	Ldn:	69.8
Lmax (Day) :	81.9	Lmax (Night):	71.4
Lmin (Day) :	59.3	Lmin (Night):	48.3
L10 (Day):	75.7	L10 (Night):	61.3
L50 (Day):	66.8	L50 (Night):	56.7
L90 (Day):	61.3	L90 (Night):	51.1
Leq (Day):	71.4	Leq (Night):	59.0

Sr.No	Time	Hourly Leq	Unit	Test Method	Norms
13	18:00 - 19:00	71.7	dB(A)Leq	IS 9989	-
14	19:00 - 20:00	63.6	dB(A)Leq	IS 9989	-
15	20:00 - 21:00	72.1	dB(A)Leq	IS 9989	-
16	21:00 - 22:00	70.2	dB(A)Leq	IS 9989	-
17	22:00 - 23:00	63.6	dB(A)Leq	IS 9989	-
18	23:00 - 00:00	59.8	dB(A)Leq	IS 9989	-
19	00:00 - 01:00	57.3	dB(A)Leq	IS 9989	-
20	01:00 - 02:00	52.6	dB(A)Leq	IS 9989	-
21	02:00 - 03:00	52.5	dB(A)Leq	IS 9989	-
22	03:00 - 04:00	59.5	dB(A)Leq	IS 9989	-
23	04:00 - 05:00	57.7	dB(A)Leq	IS 9989	-
24	05:00 - 06:00	58.9	dB(A)Leq	IS 9989	-

Norms As Per The Noise Pollution (Regulation and Control) Rules, 2000; Day Leq: 75 Night Leq: 70.

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

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--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4183D/250/06

Reporting Date: 04/04/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



TC-7073

SAMPLE DETAILS

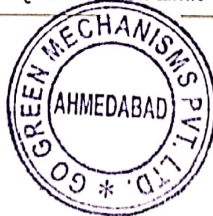
Lab ID:	Lab/PN/4183D/250/06	Sampling Date:	24/03/2025
Location:	Electric Arc Furnace Area	Sample Description:	Ambient Noise
Sampling Instrument :	Sound Level Meter	Ldn:	67.1
Lmax (Day) :	-	Lmax (Night):	-
Lmin (Day) :	-	Lmin (Night):	-
L10 (Day):	-	L10 (Night):	-
L50 (Day):	-	L50 (Night):	-
L90 (Day):	-	L90 (Night):	-
Leq (Day):	68.7	Leq (Night):	57.7

Sr.No	Time	Hourly Leq	Unit	Test Method	Norms
1	06:00 - 07:00	59.1	dB(A)Leq	IS 9989	-
2	07:00 - 08:00	59.3	dB(A)Leq	IS 9989	-
3	08:00 - 09:00	72.5	dB(A)Leq	IS 9989	-
4	09:00 - 10:00	66.1	dB(A)Leq	IS 9989	-
5	10:00 - 11:00	64.2	dB(A)Leq	IS 9989	-
6	11:00 - 12:00	60.8	dB(A)Leq	IS 9989	-
7	12:00 - 13:00	64.7	dB(A)Leq	IS 9989	-
8	13:00 - 14:00	67.1	dB(A)Leq	IS 9989	-
9	14:00 - 15:00	72.8	dB(A)Leq	IS 9989	-
10	15:00 - 16:00	69.3	dB(A)Leq	IS 9989	-
11	16:00 - 17:00	73.0	dB(A)Leq	IS 9989	-
12	17:00 - 18:00	71.3	dB(A)Leq	IS 9989	-

Norms As Per The Noise Pollution (Regulation and Control) Rules, 2000; Day Leq: 75 Night Leq: 70.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4183D/250/06

Reporting Date: 04/04/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

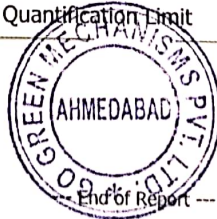
Lab ID:	Lab/PN/4183D/250/06	Sampling Date:	24/03/2025
Location:	Electric Arc Furnace Area	Sample Description:	Ambient Noise
Sampling Instrument :	Sound Level Meter	Ldn:	67.1
Lmax (Day) :	-	Lmax (Night):	-
Lmin (Day) :	-	Lmin (Night):	-
L10 (Day):	-	L10 (Night):	-
L50 (Day):	-	L50 (Night):	-
L90 (Day):	-	L90 (Night):	-
Leq (Day):	68.7	Leq (Night):	57.7

Sr.No	Time	Hourly Leq	Unit	Test Method	Norms
13	18:00 - 19:00	68.7	dB(A)Leq	IS 9989	-
14	19:00 - 20:00	65.1	dB(A)Leq	IS 9989	-
15	20:00 - 21:00	68.9	dB(A)Leq	IS 9989	-
16	21:00 - 22:00	66.2	dB(A)Leq	IS 9989	-
17	22:00 - 23:00	57.7	dB(A)Leq	IS 9989	-
18	23:00 - 00:00	57.5	dB(A)Leq	IS 9989	-
19	00:00 - 01:00	54.3	dB(A)Leq	IS 9989	-
20	01:00 - 02:00	52.5	dB(A)Leq	IS 9989	-
21	02:00 - 03:00	53.1	dB(A)Leq	IS 9989	-
22	03:00 - 04:00	63.4	dB(A)Leq	IS 9989	-
23	04:00 - 05:00	55.8	dB(A)Leq	IS 9989	-
24	05:00 - 06:00	55.1	dB(A)Leq	IS 9989	-

Norms As Per The Noise Pollution (Regulation and Control) Rules, 2000; Day Leq: 75 Night Leq: 70.

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

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4251D/250/05

Reporting Date: 07/04/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

Lab ID:	Lab/PN/4251D/250/05	Sampling Date:	28/03/2025
Location:	WFPS Area	Sample Description:	Ambient Noise
Sampling Instrument :	Sound Level Meter	Ldn:	58.4
Lmax (Day) :	-	Lmax (Night):	-
Lmin (Day) :	-	Lmin (Night):	-
L10 (Day):	-	L10 (Night):	-
L50 (Day):	-	L50 (Night):	-
L90 (Day):	-	L90 (Night):	-
Leq (Day):	60.0	Leq (Night):	50.4

Sr.No	Time	Hourly Leq	Unit	Test Method	Norms
1	06:00 - 07:00	50.6	dB(A)Leq	IS 9989	-
2	07:00 - 08:00	54.2	dB(A)Leq	IS 9989	-
3	08:00 - 09:00	54.2	dB(A)Leq	IS 9989	-
4	09:00 - 10:00	56.3	dB(A)Leq	IS 9989	-
5	10:00 - 11:00	55.0	dB(A)Leq	IS 9989	-
6	11:00 - 12:00	52.3	dB(A)Leq	IS 9989	-
7	12:00 - 13:00	56.9	dB(A)Leq	IS 9989	-
8	13:00 - 14:00	59.4	dB(A)Leq	IS 9989	-
9	14:00 - 15:00	67.1	dB(A)Leq	IS 9989	-
10	15:00 - 16:00	60.7	dB(A)Leq	IS 9989	-
11	16:00 - 17:00	61.8	dB(A)Leq	IS 9989	-
12	17:00 - 18:00	61.2	dB(A)Leq	IS 9989	-

Norms as per the Noise Pollution (Regulation and control) Rules,2000; Day Time:75 dB(A) Leq & Night Time: 70 dB(A) Leq for Industrial Area.

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

Reviewed & Authorized by
Tantan Kumar



Reviewed & Authorized by
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4251D/250/05

Reporting Date: 07/04/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

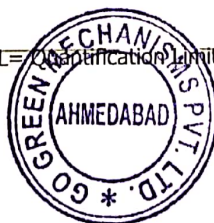
Lab ID:	Lab/PN/4251D/250/05	Sampling Date:	28/03/2025
Location:	WFPS Area	Sample Description:	Ambient Noise
Sampling Instrument :	Sound Level Meter	Ldn:	58.4
Lmax (Day) :	-	Lmax (Night):	-
Lmin (Day) :	-	Lmin (Night):	-
L10 (Day):	-	L10 (Night):	-
L50 (Day):	-	L50 (Night):	-
L90 (Day):	-	L90 (Night):	-
Leq (Day):	60.0	Leq (Night):	50.4

Sr.No	Time	Hourly Leq	Unit	Test Method	Norms
13	18:00 - 19:00	61.2	dB(A)Leq	IS 9989	-
14	19:00 - 20:00	53.3	dB(A)Leq	IS 9989	-
15	20:00 - 21:00	60.9	dB(A)Leq	IS 9989	-
16	21:00 - 22:00	60.6	dB(A)Leq	IS 9989	-
17	22:00 - 23:00	55.1	dB(A)Leq	IS 9989	-
18	23:00 - 00:00	47.7	dB(A)Leq	IS 9989	-
19	00:00 - 01:00	49.5	dB(A)Leq	IS 9989	-
20	01:00 - 02:00	45.2	dB(A)Leq	IS 9989	-
21	02:00 - 03:00	44.8	dB(A)Leq	IS 9989	-
22	03:00 - 04:00	51.3	dB(A)Leq	IS 9989	-
23	04:00 - 05:00	49.6	dB(A)Leq	IS 9989	-
24	05:00 - 06:00	50.4	dB(A)Leq	IS 9989	-

Norms as per the Noise Pollution (Regulation and control) Rules,2000; Day Time:75 dB(A) Leq & Night Time: 70 dB(A) Leq for Industrial Area.

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

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Tantan Kumar



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--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4251D/250/08

Reporting Date: 07/04/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



SAMPLE DETAILS

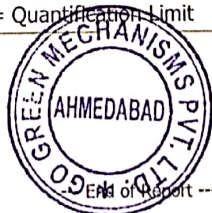
Lab ID:	Lab/PN/4251D/250/08	Sampling Date:	29/03/2025
Location:	Near Time Office	Sample Description:	Ambient Noise
Sampling Instrument :	Sound Level Meter	Ldn:	61.3
Lmax (Day) :	74.4	Lmax (Night):	65.6
Lmin (Day) :	52.2	Lmin (Night):	43.9
L10 (Day):	-	L10 (Night):	-
L50 (Day):	-	L50 (Night):	-
L90 (Day):	-	L90 (Night):	-
Leq (Day):	62.8	Leq (Night):	51.8

Sr.No	Time	Hourly Leq	Unit	Test Method	Norms
13	18:00 - 19:00	62.6	dB(A)Leq	IS 9989	-
14	19:00 - 20:00	56.1	dB(A)Leq	IS 9989	-
15	20:00 - 21:00	62.3	dB(A)Leq	IS 9989	-
16	21:00 - 22:00	62.1	dB(A)Leq	IS 9989	-
17	22:00 - 23:00	57.5	dB(A)Leq	IS 9989	-
18	23:00 - 00:00	49.2	dB(A)Leq	IS 9989	-
19	00:00 - 01:00	50.5	dB(A)Leq	IS 9989	-
20	01:00 - 02:00	46.6	dB(A)Leq	IS 9989	-
21	02:00 - 03:00	49.5	dB(A)Leq	IS 9989	-
22	03:00 - 04:00	51.5	dB(A)Leq	IS 9989	-
23	04:00 - 05:00	49.3	dB(A)Leq	IS 9989	-
24	05:00 - 06:00	50.1	dB(A)Leq	IS 9989	-

Norms As Per The Noise Pollution (Regulation And Control) Rules, 2000; Day Leq: 75 Night: 70.

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

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Gyanvati Shukla



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Wastewater Report

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4127D/250/01

Reporting Date : 29/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



TC-7073

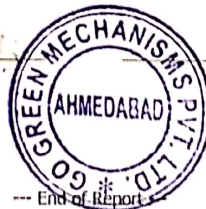
SAMPLE DETAILS

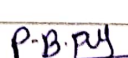
Lab ID:	Lab/PN/4127D/250/01	Sampling Date:	18/03/2025
Sample Drawn By:	Subodhnand Bharti	Sample Receipt Date:	22/03/2025
Sample Type:	Waste Water	Analysis Start Date:	22/03/2025
Sample Description:	STP Outlet	Analysis End Date:	28/03/2025
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.68	-	IS 3025- Part 11	-
2	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
3	Sulphate	122.24	mg/L	APHA 24th Edn 4500 SO4 E	-
4	Total Dissolved Solids (TDS)	629.00	mg/L	APHA 24th Edn 2540 C	-
5	Total Suspended Solids (TSS)	42.10	mg/L	APHA 24th Edn 2540 D	-
6	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
7	Chloride	88.97	mg/L	IS 3025- Part 32	-
8	Chemical Oxygen Demand (COD)	96.00	mg/L	APHA 24th Edn 5220 B	-
9	Ammonical Nitrogen	2.80	mg/L	APHA 24th Edn 4500 NH3 C	-
10	Total Kjeldhal Nitrogen	15.68	mg/L	IS 3025-Part 34	-
11	BOD at 27 o C for 3 days	26.66	mg/L	IS 3025- Part 44	-

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4127D/250/01A

Reporting Date : 29/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India

SAMPLE DETAILS

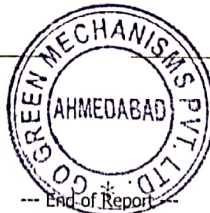
Lab ID: Lab/PN/4127D/250/01
Sample Drawn By: Subodhnand Bharti
Sample Type: Waste Water
Sample Description: STP Outlet
Sample Quantity: 3 L
Sample Condition: Satisfactory

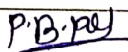
Sampling Date: 18/03/2025
Sample Receipt Date: 22/03/2025
Analysis Start Date: 22/03/2025
Analysis End Date: 28/03/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters*	Results	Unit	Test Method	Norm
1	Dissolved Phosphate	2.07	mg/L	APHA 24thEdn 4500 P	-

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4127D/250/02

Reporting Date : 29/03/2025

RAIL WHEEL PLANT BELA

3rd Floor, Admin Building, Rail Wheel Plant, Bela, Bela Saran, 841221 Bihar,
India



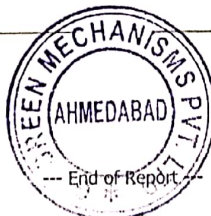
SAMPLE DETAILS

Lab ID:	Lab/PN/4127D/250/02	Sampling Date:	18/03/2025
Sample Drawn By:	Subodhnand Bharti	Sample Receipt Date:	22/03/2025
Sample Type:	Waste Water	Analysis Start Date:	22/03/2025
Sample Description:	Pond Effluent Water	Analysis End Date:	28/03/2025
Sample Quantity:	3 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.72	-	IS 3025- Part 11	-
2	Colour	8.80	CU	IS 3025- Part 4	-
3	Sulphate	81.43	mg/L	APHA 24th Edn 4500 SO4 E	-
4	Total Dissolved Solids (TDS)	677.00	mg/L	APHA 24th Edn 2540 C	-
5	Total Suspended Solids (TSS)	83.00	mg/L	APHA 24th Edn 2540 D	-
6	Oil and Grease	2.40	mg/L	IS 3025- Part 39	-
7	Chloride	128.46	mg/L	IS 3025- Part 32	-
8	Chemical Oxygen Demand (COD)	124.00	mg/L	APHA 24th Edn 5220 B	-
9	Ammonical Nitrogen	7.84	mg/L	APHA 24th Edn 4500 NH3 C	-
10	Total Kjeldhal Nitrogen	14.84	mg/L	IS 3025-Part 34	-
11	BOD at 27 o C for 3 days	31.42	mg/L	IS 3025- Part 44	-

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