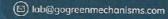


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/01

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3958D/79/01

Hasanali Roshanali Sunasara

Ambient Air Near Mine Oflice

Temp-31°C/ Humidity-43%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

28/02/2025

01/03/2025 03/03/2025

03/03/2025-10/03/2025

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	73.35	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.15	μg/m3	GGMPL/SOP/AA/60	50
3	Sulphur Dioxide (SO2)	17.87	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	31.20	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.13	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)	1.07	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= Q

Reviewed & Authorized by Gyanvati Shukla AHMEDABAD

Reviewed & Authorized by Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/02

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3958D/79/02

Hasanali Roshanali Sunasara

Ambient Air Near Guest House

Temp-31°C/ Humidity-43%

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

01/03/2025 03/03/2025

28/02/2025

03/03/2025-10/03/2025 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	76.33	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	μg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	14.47	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	27.57	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.75	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.49	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)	1.01	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= Qu

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9 : End of Report

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Page No: 1/1

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(L) +91-70690 72001

[D] lab@gogreenmechanisms.com

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/03

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3958D/79/03

Hasanali Roshanali Sunasara

Ambient Air

Near Tirodi Village

Temp-31°C/ Humidity-43%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 28/02/2025

01/03/2025 03/03/2025

03/03/2025-10/03/2025

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.33	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	12.46	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	22.28	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.75	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.72	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)	1.09	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

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[2] lab@gogreenmechanisms.com

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/04

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3958D/79/04

Hasanali Roshanali Sunasara

Ambient Air

Near Officer Colony

Temp-31°C/ Humidity-43%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

28/02/2025

01/03/2025 03/03/2025

03/03/2025-10/03/2025

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	76.91	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)	18.27	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	26.99	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.90	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.88	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)	1.05	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 Lim

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/05

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Hasanali Roshanali Sunasara

Sampling Date:

Sample Description:

28/02/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3958D/7 9/05A	Near Oflice Premises	Day Time	dB(A)Leq	IS 4758	64.8	-
2	Lab/PN/3958D/7 9/05B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	67.1	in a
3	Lab/PN/3958D/7 9/05C	Jack Hammer Drill Machine	Day Time	dB(A)Leq	IS 4758	65.9	
4	Lab/PN/3958D/7 9/05D	Near Excavator	Day Time	dB(A)Leq	IS 4758	67.8	

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

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9 *

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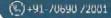
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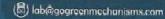
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/06

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P.)

Reporting Date: 11/03/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3958D/79/06

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Type:

Ground Water

Sample Description:

Open Dug well No-03

Sample Quantity: 3.5 L Sample Condition: Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

01/03/2025

03/03/2025 04/03/2025

10/03/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	161.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	43.68	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	40.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.35	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.30	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	c Agreeable
8	pH at 25 °C	7.72		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	29.01	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	309.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	172.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500.

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/06

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Condition:

Sample Quantity:

Lab/PN/3958D/79/06

Hasanali Roshanali Sunasara

Ground Water Open Dug well No-03

3.5 L Satisfactory

Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

01/03/2025

03/03/2025 04/03/2025 10/03/2025

GGMPL/WI/27A

Sealed

B 1 46 1	5 No
46 1	No
	relaxation
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AL & PL as per IS 10500.

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by Payal Patel

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Page No: 2/2

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(S) lab@gogreenmechanisms.com

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/07

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3958D/79/07

Sample Drawn By: Sample Type: Hasanali Roshanali Sunasara

Ground Water

Sample Description: Sample Quantity: G.W of Officer Colony Supply

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

01/03/2025

03/03/2025 03/03/2025

10/03/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	151.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	44.08	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	48.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.47	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.01	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	(4)	IS 3025- Part 5	Agreeabl	le Agreeable
8	pH at 25 °C	7.60	4	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	30.88	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	286.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	180.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500.

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

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Reviewed & Authorized by Payal Patel

Page No: 1/2

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lab@gogreenmechanisms.com

(a) www.gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/07

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity: Sample Condition:

Lab/PN/3958D/79/07 Hasanali Roshanali Sunasara

Ground Water G.W of Officer Colony Supply

3.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

01/03/2025

03/03/2025 03/03/2025 10/03/2025

GGMPL/WI/27A

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		82	0.79

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.84	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Reviewed & Authorized by

Tantan kumar & Dr. Haragobinda Srichandan

End of Report

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Page No: 2/2

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(b) www.gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/08

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3958D/79/08

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Type:

Ground Water

Sample Description:

G.W of Staff Quarter Water Supply

Sample Quantity:

3.5 L

Sample Condition: Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

01/03/2025

03/03/2025 03/03/2025

10/03/2025

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	156.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	46,49	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	50.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.50	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.49	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.40		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	31.77	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	310.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	188.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/08

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P.)

Reporting Date: 11/03/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/3958D/79/08

Hasanali Roshanali Sunasara

Ground Water

Satisfactory

G.W of Staff Quarter Water Supply 3.5 L

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method: Packing:

01/03/2025

03/03/2025 03/03/2025 10/03/2025

GGMPL/WI/27A Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.76	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/09

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3958D/79/09

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara

Waste Water

Sample Description:

Mine Discharge Water Block No A-B Pit

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

01/03/2025

03/03/2025 03/03/2025

10/03/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.52	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	38.00	mg/L	APHA 24th Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	
4	Chemical Oxygen Demand (COD)	64.00	mg/L	APHA 24th Edn 5220 B	
5	Dissolved Oxygen	5.80	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	15	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/46	

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

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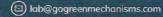
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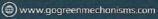
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/10

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11-03-2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3958D/79/10

: Weather Monitoring Station

: Meteorological Parameter

: Near Mine Office

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 28-02-2025

: 01-03-2025

: 03-03-2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	0.86	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	43.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01	
4	Temperature	31.0	°C	GGMPL/SOP/MP/01	

Reviewed & Authorized by

Gyanvati Shukla

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Payal Patel

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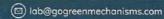
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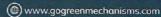
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/11

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11-03-2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type Sample Location : Lab/PN/3958D/79/11

: Weather Monitoring Station

: Meteorological Parameter

: Near Guest House

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 28-02-2025

: 01-03-2025 : 03-03-2025

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.86	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	43.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	31.0	°C	GGMPL/SOP/MP/01

Reviewed & Authorized by

Gyanvati Shukla



Reviewed & Authorized by

Payal Patel

Page 1 of 1

----End of Report----

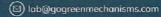
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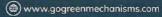
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/12

Reporting Date: 11-03-2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3958D/79/12

: Weather Monitoring Station

: Meteorological Parameter

: Near Tirodi Village

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 28-02-2025 : 01-03-2025

: 03-03-2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	86.00	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	43.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01	
4	Temperature	31.0	°C	GGMPL/SOP/MP/01	

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Gyanvati Shukla

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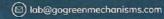
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3958D/79/13

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11-03-2025



SAMPLE DETAILS

M/s Moil Limited

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3854D/97I/13

: Weather Monitoring Station

: Meteorological Parameter

: Near Officer Colony

Sampling Start Date

Sampling End Date

: 28-02-2025 : 01-03-2025

Sample Receipt Date

: 03-03-2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	0.86	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	43.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01	
4	Temperature	31.0	°C	GGMPL/SOP/MP/01	

Reviewed & Authorized by

Gyanvati Shukla

SPVI

Reviewed & Authorized by

Payal Patel

----End of Report----

Page 1 of 1

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(%)+91-70690 72001

(III) lab@gogreenmechanisms.com

www.gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3959D/79A/01

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3959D/79A/01

Hasanali Roshanali Sunasara

Ambient Air

Near Sampling Room

Temp-31°C/ Humidity-43%

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

25±5°C

28/02/2025

01/03/2025

03/03/2025

03/03/2025-10/03/2025

Sr.No	Parameters	Results	Unit	Test Method	Manage
			Unit	rest metriou	Norms
1	Particulate Matter (PM10)	69.01	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	20.50	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	36.89	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.29	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.49	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQI (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	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= Quantifigure 1.

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Page No: 1/1

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(a) lab@gogreenmechanisms.com

(a) www.gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3959D/79A/02

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Env. Cond.-Sampling:

Sample Description: Env. Cond.-Sample Receipt: Lab/PN/3959D/79A/02

Hasanali Roshanali Sunasara

Ambient Air

Near Dumping Area Temp-31°C/ Humidity-43%

Satisfactory

Sampling Start Date: 28/02/2025 Sampling End Date: 01/03/2025

Sample Receipt Date: 03/03/2025 Analysis start- End Date: 03/03/2025-10/03/2025

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	71.56	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.82	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	17.15	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	27.30	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.98	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.11	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)	1.07	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

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(6) +91-70690 72001

[27] lab@gogreenmechanisms.com

(a) www.gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3959D/79A/03

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Hasanali Roshanali Sunasara

Sampling Date: Sample Description: 28/02/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3959D/7 9A/03A	Near Sampling Room	Day Time	dB(A)Leq	IS 4758	63.9	-
2	Lab/PN/3959D/7 9A/03B	Near dumping area	Day Time	dB(A)Leq	IS 4758	65.1	

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

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- End of Report ---

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Page No: 1/1

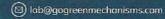
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3959D/79A/04

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Quantity:

Sample Description:

Sample Condition:

Lab/PN/3959D/79A/04

Hasanali Roshanali Sunasara Ground Water

G.W of sampling Room water Supply 3.51

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

03/03/2025 10/03/2025

Packing:

GGMPL/WI/27A

01/03/2025

03/03/2025

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	142.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	48.09	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	52.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.53	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	18.22	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.42	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	18.31	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	288.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	195.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500

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

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(h)+91-70690 72001

[9] lab@gogreenmechanisms.com

(a) www.gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3959D/79A/04

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Lab/PN/3959D/79A/04 Hasanali Roshanali Sunasara Ground Water

Sample Type: Sample Description:

G.W of sampling Room water Supply

Sample Quantity: Sample Condition: 3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

03/03/2025 10/03/2025 GGMPL/WI/27A

01/03/2025

03/03/2025

Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.92	mg/L	ΑΡΗΛ 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan

--- End of Report ---

Reviewed & Authorized by Payal Patel

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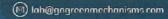
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3959D/79A/05

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3959D/79A/05

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara Ground Water

Sample Description:

G.W of Dumping area water Supply

3.5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

03/03/2025 03/03/2025

01/03/2025

10/03/2025 GGMPL/WI/27A

Sealed

Sr. No	Parameters	Results	Unit	Test Method	Al	PI
1	Alkalinity as CaCO3	152.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	50.50	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	58.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.4787	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.49	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeabl
8	pH at 25 °C	7.56		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	24.75	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	310.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	198.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



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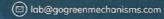
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3959D/79A/05

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/3959D/79A/05 Sampling Date: 01/03/2025 Sample Drawn By: Hasanali Roshanali Sunasara Sample Receipt Date: 03/03/2025 Ground Water Sample Type: Analysis Start Date: 03/03/2025 G.W of Dumping area water Supply Sample Description: Analysis End Date: 10/03/2025

Sample Quantity: 3.5 L Sampling Method: GGMPL/WI/27A
Sample Condition: Satisfactory Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.98	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

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

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Reviewed & Authorized by Payal Patel

Page No: 2/2

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Dayal Estate, National Highway No. 8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426, Gujarat. INDIA.







CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3959D/79A/06

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

Reporting Date: 10-03-2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3959D/79A/06

: Weather Monitoring Station

: Meteorological Parameter

: Near Sampling Room

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 28-02-2025 : 01-03-2025

: 03-03-2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	0.86	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	43.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01	
4	Temperature	31.0	°C	GGMPL/SOP/MP/01	

Reviewed & Authorized by

Gyanvati Shukla

Payal Patel

Page 1 of 1

----End of Report----

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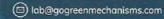
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3959D/79A/07

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 10-03-2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3959D/79A/07

: Weather Monitoring Station

: Meteorological Parameter

: Near Dumping Area

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 28-02-2025

: 01-03-2025

: 03-03-2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	0.86	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	43.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01	
4	Temperature	31.0	°C	GGMPL/SOP/MP/01	

Reviewed & Authorized by

Gyanvati Shukla

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Payal Patel

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----End of Report----

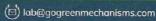
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3960D/79B/01

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3960D/79B/01

Hasanali Roshanali Sunasara

Ambient Air Near Pit Office

Temp-31°C/ Humidity-43%

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

I otal Sampling hours: Env. Cond.-Testing:

28/02/2025 01/03/2025

03/03/2025

03/03/2025-10/03/2025

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	73.11	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.15	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	21.80	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	30.08	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.90	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.11	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)	1.05	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=

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3960D/79B/02

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Hasanali Roshanali Sunasara

Sampling Date:

Sample Description:

28/02/2025

Source Noise

1 Lab/PN/3960D/7 Near pit office Day Time dB(A)Leq IS 4758 65.4	
	(1.0)

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

Reviewed & Authorized by Gyanvati Shukla

Reviewed & Authorized by Payal Patel

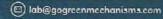
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3960D/79B/03

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara Ground Water

Lab/PN/3960D/79B/03

Sample Description: Sample Quantity:

G.W of Pit Office water Supply

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

03/03/2025 10/03/2025 GGMPL/WI/27A

Sealed

01/03/2025

03/03/2025

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200	The second secon	1.00	100 100 100 100 100	Car Village Applies		
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	160.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	44.88	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	42.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.53	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.98	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	. Agreeable
8	pH at 25 °C	7.42		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	15.84	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	280.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	186.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan

PBRE Reviewed & Authorized by

Payal Patel

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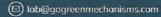
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3960D/79B/03

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Sampling Date: 01/03/2025 Lab ID: Lab/PN/3960D/79B/03 Sample Receipt Date: 03/03/2025 Hasanali Roshanali Sunasara Sample Drawn By: Ground Water Analysis Start Date: 03/03/2025 Sample Type: Analysis End Date: 10/03/2025 G.W of Pit Office water Supply Sample Description: Sampling Method: GGMPL/WI/27A 3.5 L Sample Quantity:

Sample Condition: Satisfactory Parking: Sealed

Sr.Nu	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL-0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQI (QI =0.05)	mg/L	GGMPL/SOP/W & WW/45	0.1	0.3
16	Nitrate	2.01	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by Payal Patel

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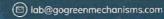
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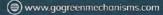
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3960D/79B/04

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)

Reporting Date: 10-03-2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3960D/79B/04

: Weather Monitoring Station

: Meteorological Parameter

: Near Pit Office

Sampling Start Date

Sampling Start Date

Sampling End Date Sample Receipt Date : 28-02-2025

: 01-03-2025

: 03-03-2025

Sr. No.	Parameters	Results	Unit	Test Mediod	
1	Wind Speed	0.86	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	43.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01	
4	Temperature	31.0	°C	GGMPL/SOP/MP/01	

Reviewed & Authorized by

Gyanyati Shukla

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Reviewed & Authorized by

Payal Patel

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----End of Report----

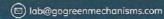
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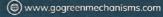
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3961D/79C/01

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Lead

Env. Cond.-Sample Receipt:

Lab/PN/3961D/79C/01

Hasanali Roshanali Sunasara

Ambient Air

Near Railway Siding Office Temp-31°C/ Humidity-43%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

28/02/2025

01/03/2025 03/03/2025

03/03/2025-10/03/2025

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	71.38	μ g/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.08	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	23.12	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.90	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.72	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)	1.09	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 -

µg/m3

Method IO 3.4

Norms As Per National Ambient Air Quality Standards.

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

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BQL (QL=0.001)

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3961D/79C/02

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3961D/79C/02

Hasanali Roshanali Sunasara

Ambient Air

End of North Railway Siding Temp-31°C/ Humidity-43%

Satisfactory

Sampling Start Date: 28/02/2025 01/03/2025 Sampling End Date:

Sample Receipt Date: 03/03/2025 Analysis start- End Date: 03/03/2025-10/03/2025

Total Sampling hours: Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	73.76	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.89	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	24.51	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.44	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)	1.09.	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

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(🗉) lab@gogreenmechanisms.com

(a) www.gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3961D/79C/03

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Hasanali Roshanali Sunasara

Sampling Date:

Sample Description:

28/02/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3961D/7 9C/03A	North Railway Siding Office	Day Time	dB(A)Leq	IS 4758	58.1	-
2	Lab/PN/3961D/7 9C/03B	End Of North Railway Siding	Day Time	dB(A)Leq	IS 4758	59.0	

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

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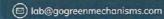
Page No: 1/1

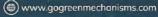
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3961D/79C/04

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Lab ID: Lab/PN/3961D/79C/04 Sample Drawn By: Hasanali Roshanali Sunasara

Ground Water Sample Type:

Sample Description: G.W of North Railway Siding office

Sample Quantity: 3.5 L Satisfactory Sample Condition:

Sampling Date: 01/03/2025 Sample Receipt Date: 03/03/2025

Analysis Start Date: 03/03/2025 Analysis End Date: 10/03/2025 GGMPL/WI/27A Sampling Method:

Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	142.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	44.88	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	57.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.92	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.41	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.60		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	25.34	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	310.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	196.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by Payal Patel

PB-RS

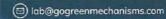
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3961D/79C/04

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Sample Condition:

Sampling Date: 01/03/2025 Lab ID: Lab/PN/3961D/79C/04 Sample Receipt Date: 03/03/2025 Sample Drawn By: Hasanali Roshanali Sunasara Analysis Start Date: 03/03/2025 Ground Water Sample Type: Analysis End Date: Sample Description: G.W of North Railway Siding office

Sample Quantity: 3.5 L

Satisfactory

Sampling Method:

10/03/2025

GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.70	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500.

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3961D/79C/05

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3961D/79C/05

01/03/2025 Sampling Date: Sample Receipt Date:

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara

03/03/2025

Sample Description:

Ground Water G.W of End Of North Railway Siding

03/03/2025 Analysis Start Date: Analysis End Date: 10/03/2025

3.5 L

Sampling Method: GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	156.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	42.48	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	47.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.65	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.41	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeabl
8	pH at 25 °C	7.58		IS 3025- Part 11	6.5-8.5	No relaxatio
9	Sulphate	29.50	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	322.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	190.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3961D/79C/05

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)

Reporting Date: 10/03/2025



SAMPLE DETAILS

Lab/PN/3961D/79C/05 Lab ID: Hasanali Roshanali Sunasara Sample Drawn By:

Ground Water Sample Type:

G.W of End Of North Railway Siding Sample Description: 3.5 L

Sample Quantity: Sample Condition: Satisfactory Sampling Date: 01/03/2025 Sample Receipt Date: 03/03/2025 03/03/2025 Analysis Start Date:

Analysis End Date: 10/03/2025 GGMPL/WI/27A Sampling Method:

Packing: Sealed

Parameters	Results	Unit	Test Method	AL	PL
Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
Nitrate	3.03	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent
	Turbidity Iron Manganese Nitrate Total coliform	Turbidity BQL (QL=0.1) Iron BQL (QL=0.05) Manganese BQL (QL=0.05) Nitrate 3.03 Total coliform Absent	Turbidity BQL (QL=0.1) NTU Iron BQL (QL=0.05) mg/L Manganese BQL (QL=0.05) mg/L Nitrate 3.03 mg/L Total coliform Absent Per 100ml	Turbidity BQL (QL=0.1) NTU APHA 24th Edn 2130 B Iron BQL (QL=0.05) mg/L GGMPL/SOP/W&WW/46 Manganese BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 Nitrate 3.03 mg/L APHA 24th Edn 4500 NO3 B Total coliform Absent Per 100ml APHA 9221 B 24th Edition	Turbidity BQL (QL=0.1) NTU APHA 24th Edn 2130 B 1 Iron BQL (QL=0.05) mg/L GGMPL/SOP/W&WW/46 1 Manganese BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 0.1 Nitrate 3.03 mg/L APHA 24th Edn 4500 NO3 B 45 Total coliform Absent Per 100ml APHA 9221 B 24th Edition Absent

AL & PL As Per IS 10500.

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan End of Report ---

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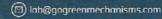
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3961D/79C/06

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)

Reporting Date: 10-03-2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type Sample Location : Lab/PN/3961D/79C/05

: Weather Monitoring Station

: Meteorological Parameter

: Near Railway Siding Office

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 28-02-2025

: 01-03-2025 : 03-03-2025

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Sr. No.	Parameters	Results	Unit	Test Method	est appropriate to the
1	Wind Speed	0.86	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	43.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01	
4	Temperature	31.0	°C	GGMPL/SOP/MP/01	

Reviewed & Authorized by

Gyanvati Shukla



Reviewed & Authorized by

Payal Patel

Page 1 of 1

----End of Report----

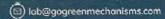
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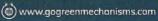
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3961D/79C/07

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)

Reporting Date: 10-03-2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type Sample Location : Lab/PN/3961D/79C/07

: Weather Monitoring Station

: Meteorological Parameter

: End of North Railway Siding

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 28-02-2025

: 01-03-2025

: 03-03-2025

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.86	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	43.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	31,0	°C	GGMPL/SOP/MP/01

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Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3973D/79D/01

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)

Reporting Date: 12/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond. Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3973D/79D/01

Hasanali Roshanali Sunasara

Ambient Air

South Railway Siding Office Temp-31°C/ Humidity-48%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 01/03/2025 02/03/2025

04/03/2025 05/03/2025-11/03/2025

24 25±5°C

sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	75.63	μ g/m3	IS 5182- Part 23	100
7	Particulate Matter (PM2.5)	33.32	µg/m3	CCMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.08	μу/ш3	IS 5182-Part 2	80
4	Oxides of Nitrogen	27.26	Jig/m3	IS 5187- Part 6	80
5	Ozone (O3)	15.67	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)	1.05	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 NAAQ Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3973D/79D/02

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3973D/79D/02

Hasanali Roshanali Sunasara

Ambient Air

End of South Railway Siding Temp-31°C/ Humidity-48%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

01/03/2025

02/03/2025 04/03/2025

05/03/2025-11/03/2025

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	73.42	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	μg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.89	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	29.22	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.67	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.49	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)	1.09	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 NAAQ Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3973D/79D/03

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Hasan Ali

Sampling Date:

01/03/2025

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3973D/7 9D/03A	South Railway Siding Office	Day Time	dB(A)Leq	IS 4758	56.4	-
2	Lab/DN/2072D/7	End of South Railway Siding	Day Time	dB(A)Leq	IS 4758	58.2	

NS=Not Specified, BQL=Below Quantification I imit,QI = Quap

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3973D/79D/04

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3973D/79D/04

Sample Drawn By: Sample Type: Hasanali Roshanali Sunasara

Ground Water

Sample Description: Sample Quantity: G.W of South Railway Siding office

3.5 L

Sample Condition: Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method: 04/03/2025 05/03/2025 11/03/2025

02/03/2025

GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	136.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	40.48	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	34.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.42	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	11.90	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.50		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	26.73	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	250.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	150.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500.

NS=Not Specified, DQL=Delow Quantification Limit, QL= Quantificaçion

1 H3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3973D/79D/04

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3973D/79D/04 Hasanali Roshanali Sunasara Sampling Date:

02/03/2025 04/03/2025

Sample Drawn By: Sample Type:

Ground Water

Sample Receipt Date: Analysis Start Date: Analysis End Date:

05/03/2025 11/03/2025

Sample Description: Sample Quantity:

Sample Condition:

G.W of South Railway Siding office 3.5 L Satisfactory

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.67	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3973D/79D/05

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3973D/79D/05

Sample Drawn By: Sample Type: Hasanali Roshanali Sunasara

Ground Water

Sample Description:

G.W of End Of South Railway Siding

Sample Quantity: 3.5

3.5 L

Sample Condition: Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

02/03/2025

03/03/2025 05/03/2025

11/03/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	158.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	54.10	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	45.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.89	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.65	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.75	-	IS 3025- Part 11	h h-X h	No relaxation
9	Sulphate	33.66	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	321.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	220.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500.

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

1 H8

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3973D/79D/05

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Condition:

Lab/PN/3973D/79D/05

Hasanali Roshanali Sunasara

Sample Type: Ground Water Sample Description: G.W of End Of

Sample Quantity: 3.5 L

G.W of End Of South Railway Siding

3.5 L

Satisfactory

Sampling Date: 02/03/2025
Sample Receipt Date: 03/03/2025

Analysis Start Date: 05/03/2025
Analysis End Date: 11/03/2025
Sampling Method: GGMPL/WI/27A

Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13 Turb	idity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14 Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15 Man	ganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16 Nitra	te	1.68	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17 Tota	l coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18 E. co	li .	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

0 18

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



P.B. Putes

Reviewed & Authorized by Payal Patel

Page No: 2/2

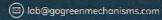
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Dayal Estate, National Highway No. 8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426, Gujarat, INDIA.







CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3973D/79D/06

M/s Moil Limited
Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)

Reporting Date: 11-03-2025



SAMPLE DETAILS

Lab ID Sampling Instrument

Sample Type
Sample Location

: Lab/PN/3973D/79D/06

: Weather Monitoring Station

: Meteorological Parameter

: South Railway Siding Office

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 01-03-2025

: 02-03-2025 : 04-03-2025

100	A State of the Sta			
Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.86	m/s	CCMPL/SOP/MP/01
2	Relative Humidity	48.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	31.0	nc	GGMPL/SOP/MP/01



Reviewed & Authorized by

Tantan Kumar



Reviewed & Authorized h

Manish Kumawat

----End of Report----

Page 1 of 1

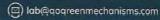
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3973D/79D/07

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11-03-2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3973D/79D/07

: Weather Monitoring Station

: Meteorological Parameter

: End of South Railway Siding

Sampling Start Date

Sampling Start Date
Sampling End Date

: 02-03-2025

Sample Receipt Date

: 04-03-2025

: 01-03-2025

r. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	0.86	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	48.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01	
4	Temperature	31.0	°C	GGMPL/SOP/MP/01	



Reviewed & Authorized by

Tantan Kumar



Reviewed & Authorized by

Manish Kumawat

----End of Report----

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